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Introduction to TIIM

Introducing TIIM - the Twente Intervention and Interaction Machine

Data collection is a fundamental aspect of many research studies, particularly those that are longitudinal in nature. However, traditional methods of data collection, such as paper-based surveys or face-to-face interviews, can be time-consuming and prone to errors. Mobile applications have emerged as an innovative solution to these challenges, and **TIIM** is one such application developed by the University of Twente (UT).

TIIM is an iOS and Android-compatible mobile application that enables researchers to collect data from study participants directly on their smartphones. The application is part of the research software provided and maintained by the BMS Lab and is aimed at providing researchers with the capability to study participants long-term or repeatedly, for example, in cohort or longitudinal studies.

To organize studies in different intervention conditions, containing flexible modules and a wide array of possibilities for survey items, such as stimuli or measurement items, **TIIM** offers a highly customizable web application for researchers, known as 'the dashboard'. The timing and order of items can be moderated by the researcher and push notifications can be sent to participants at specific times and in a predetermined order. Questions can be packed into modules, making it easier to manage and control the flow of data collection. Moreover, the application offers item routing and questionnaire conditions that enable the adaptation

of studies to individual participants, thereby enhancing the quality of the data collected.

TIIM 's data collection capabilities make it a valuable tool for researchers. The application saves data in the interface (dashboard), making it easy to track and analyze results. Moreover, **TIIM** studies can be adapted to individual participants, making it easier to conduct complex and long-term studies. At the end of a study, **TIIM** provides researchers with a downloadable CSV file, making it easy to export, the results for analysis and reporting. **TIIM**

is designed to be ethical and responsible, so ethical approval is mandatory.

With the assistance of this manual, you will be able to:

- Register your research.
- Create a project in **TIIM**.
- Create studies, interventions, modules and items.
- Set up timing rules for interventions.
- Promote engagement using push notifications.
- Create calculated variables.
- Enroll and manage researchers.
- Enroll, register and manage participants.
- Download and export the data for analysis.

Before you get started

Checking conditions

The use of software, equipment, spaces, and other resources of the BMS-Lab, you will need to register your project. However, you will also need to check if your study and intended use of these materials meet our policies, terms, and conditions. Below are the main topics you will have to consider.

Scope

Your project needs to be in line with the vision and scope of the BMS-Lab. This means it must be related to the social sciences and aiming at the benefit of society. It has to be aligned with the BMS-Lab values of *Innovation*, *Creativity* and *Pioneering*. And, of course, your study needs to be scientifically rigorous, feasible and realistic.

For more information, visit: https://bmslab.utwente.nl/policies/

Ethical approval

Every study involving human participants requires authorization from UT. If you intend to conduct research involving people, it is necessary to submit your research proposal for ethical evaluation. This requirement applies to all types of research within the Faculty of Behavioral Science that involve humans, whether indirectly through analysis of files or social media, or directly through experiments, surveys, or interviews. Tryouts, calibration, development and preparation of experiments are exempt of approval.

For more information, visit: https://www.utwente.nl/en/bms/research/ethics/

Data management

You are liable for all the data collected in or with the help of the BMS-Lab. This means you will be entirely responsible for all data produced in your study, including, and not limited to, its collection, storage, safekeeping, anonymization, and processing.

For more information, visit: https://www.utwente.nl/en/bms/research/support/

Getting started- Project registration

Once you have designed your research project, it is time to register it with the BMS Lab. By registering your project, you will assure it complies with the BMS-Lab and UT requirements, and it will grant you access to a variety of resources, such as software, equipment, or facilities. You can register your project at the following address: https://bmslab.utwente.nl/register-project/

- 1. On the registration page, you will be reminded of the requirements for registration.
- 2. Once you have met all conditions, you can click on REGISTER YOUR PROJECT -
- 3. You will be directed to the login page:



Internal (University of Twente)

After logging in with your UT account, you will be directed to the registration system

dashboard.

External (Outside of the University of Twente)

As a new users, you will need to:

- 1. Enter your username and password.
- 2. Then, select CLICK TO REGISTER -.
- 3. You will get a verification email.
- 4. After clicking on VERIFY –, you can go back to the project registration website and click on EXTERNAL –.
- 5. Insert your login information and click on LOG-IN –.
- 6. You will be directed to the registration system dashboard.

Project registration system

- 1. Go to PROJECT REGISTRATION : Click on CREATE NEW PROJECT -.
- 2. You will need to fill out a registration form, with details of your project, your Ethics Project Request Number and duration of the survey. Scroll down and in the field BMS Lab software needed, select **TIIM**.

| 107 Settings Is this project funded? | |
|---|--|
| | |
| Start date 11-12-2024 III 11-12-2024 III | |
| Support needed | |
| Lavel of development support None | |
| Level of data storage support None | |
| Level of data processing support None | |
| EMSide software needed (for Amberscript, see below) Tim | |
| Funding available for BMSlab support N/A | |
| Anberscript software None | |
| Ethics Approval You can upload an ethics approval pdf here once you have saved the first draft of your project | |

Once your request has been approved, you will need to send an email to <u>dashboard-bms@utwente.nl</u> and you will be instructed on how to gain access to the **TIIM** dashboard: <u>https://dashboard.tech4people-apps.bms.utwente.nl/login</u>.

Creating a new account

After registering your project, it is time to create your researcher account on the Dashboard at: <u>https://dashboard.tech4people-apps.bms.utwente.nl/login</u>

You can see the **TIIM Introduction** instructional video through the following link:

https://youtu.be/ywKUiTLxdgk?si=LDwyyc7NwzP5FBrI

1. Click on – NEW ACCOUNT-.

| Twente Intervention and Interaction Machine | | | | | |
|---|------|--|--|--|--|
| E-mail address or m-number | | | | | |
| NEW ACCOUNT | NEXT | | | | |

- 2. Fill in details. Use the project number you were given upon the registration of your project.
- 3. Select **TIIM** in Study Type.
- 4. Choose a password.

| BMS project ID | |
|---|---|
| | |
| First Name | |
| Last Name | |
| | |
| E-mail address | \rightarrow Register with my UT account |
| E-mail is required | |
| Study Type | |
| olddy Type | |
| Please choose the study types you want to create | |
| Please choose the study types you want to create | |
| Please choose the study types you want to create | |
| Please choose the study types you want to create CC TIIM Password | |
| Please choose the study types you want to create CC ITIM Password Password Fastword is required | |
| Please choose the study types you want to create CC TIIM Password Password Repeat Password | |
| Please choose the study types you want to create CC TIIM Password Password Repeat Password | |
| Please choose the study types you want to create | |

Your request will be processed, and you will be informed in up to 5 working days.

Creating a study in TIIM

Upon approval, you will have access to the **TIIM** dashboard, and you will be able to create your study. First, log in to **TIIM**: <u>https://dashboard.tech4people-apps.bms.utwente.nl/login</u>

To create your own study, follow these steps:

| . Click or | n – START NEW STUDY | |
|------------------|--|------------------------|
| THE BMS LAB Dash | hboard | |
| | There are no studies that you can view or ed | START A NEW STUDY |
| | | |
| | | Select new study type |
| . Select | study type – TIIM SURVEY –. | Type of survey |
| . Click or | n – CREATE NEW STUDY –. | TIIM SURVEY |
| | | CLOSE CREATE NEW STUDY |

Filling the details

1. Fill in the study title and description

| BMS I AB Dashbaard | STLDES > CREATE STLDY | | ¢ 6 |) © E+ |
|----------------------------|--|------------------------|-------|--------|
| < STUDIES Study Details | Study details | | | |
| | THE SHOW | | | |
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| | Study the | | | |
| | Laguage | | | |
| | (Englan (B) | Select language to add | ٣ | ADD |
| | Image of logis SELECT IMAGE | | | |
| | Bady wars at Bhay yoo at 19402-2025 16:34 Ft 19402-2025 16:34 Ft | | | |
| | Color of study | | | |
| | Use oknewno basis obeckkom (Vologer in is mestin ku) Use dipital penshyping data collection (Battery III: & GPS) Use dipital | | CREAT | ESTUDY |
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2. Select a language

The TIIM app several languages: English, German, Dutch, French Italian and Spanish. The automatic selected language is English.

For each language added, you will need to add their corresponding translations in the title sections.

3. Choosing the start & end date

You can type in the start and end dates of your study. Alternatively, you can use the calendar widget to select the sates by clicking on the icon on the right side of the field.

4. Selecting a color of study (optional)

You can customize the appearance of your study by selecting a color.

- 5. Enabling biometrics data collection or digital phenotyping (optional)
- The **TIIM** app supports the collection of three types of biometric data with the assistance of wearable devices: *heart rate, steps,* and *sleep*. These data are collected through the Google Fit and Health Kit platforms. Similarly, TIIM can collect info on battery life and GPS from the smartphones of the participants.

For more information see the <u>Editing Sensor Configuration section</u>.

6. Finalizing creation of study

To finalize your study, lick on - CREATE STUDY -.

Once you have created your first study, you will be directed to the dashboard and the card to study will be visible.



You can still edit this information any time before you start collecting data.

Understanding studies in TIIM

A study in TIIM comprises four main elements.

1. Study

A *study* refers to a research project or investigation that utilizes the **TIIM** platform for survey-based data collection and analysis. Within the study, you will design your survey instrument, setting the structure, question, and conditions. A study may comprise one or more interventions.

2. Interventions

In **TIIM**, *intervention* refers to unique instances or conditions within the data collection process that are designed to assess the effects of a specific treatment or condition. Thus, they represent different conditions or groups within the survey, such as a control group that does not receive any intervention, an experimental group that receives a specific treatment or condition, or pretests and posttests to measure changes before and after an intervention. These terms help categorize and differentiate the data collection process in **TIIM**. Interventions may contain one or more modules.

3. Modules

A *module* refers to a self-contained section or subset of questions within a larger survey instrument. Modules are often used to group related questions that pertain to a particular topic or construct. They help organize the survey and make it more manageable for respondents. For instance, in a customer satisfaction survey, there may be separate modules for assessing product quality, customer service, and delivery experience, each with a set of questions tailored to that specific aspect. A module consists of one or more items.

4. Items

Items are individual units of inquiry within a survey. They are the specific prompts or queries presented to respondents to gather information or opinions. Each item typically focuses on a single topic or aspect of interest. Examples of survey items include multiple-choice questions, rating scales, openended questions, or demographic inquiries. The responses to these items are used to collect data and analyze the survey results.

Study home

In the dashboard, you will be able to see all your studies hosted and conducted with **TIIM**. Each study will be represented by its own card.

From the card, you can *delete* your study, make a copy of it (*duplicate*) and *open* it. Once you click on – OPEN – you will be directed to the dashboard page of your study.

Creating interventions

Interventions are the conditions within your research, e.g., *control and experimental groups, pre- and posttests,* etc.

To create your first intervention, follow these steps:

1. On the sidebar, click on the - INTERVEVENTION - page.

| Twente Intervention and | | 0 | 0 | ₽ |
|-------------------------|--|---|---|---|
| Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STUDY) > STUDY HOME | | | |
| < STUDIES | | | | |
| Study Home | Students Well-Being in Twente (mock study) | | | |
| Study Details | This is a cross-sectional study to assess students well-being in the Twente region | | | |
| Subscription | Status | | | |
| Interventions | Running for 6 more days | | | |
| Modules | Interventions | | | |
| Calculated Variables | There are no interventions in this study | | | |
| E-Mails | CREATE THE FIRST INTERVENTION | | | |
| Participants | | | | |
| Metrics | | | | |
| Researchers | | | | |
| | | | | |
| | | | | |
| | | | | |

2. Click on - CREATE THE FIRST INTERVENTION -.



- 3. In TITLE -, name your intervention (e.g., Control Group, Experimental Group, etc.).*
- In DESCRIPTION –, specify your intervention (e.g., control group for study SWBT).*
 *The title and description are meant for organizational purposes only and will not be visible to participants.

| Twente Intervention and | | 🗊 🕐 E |
|-------------------------|---|-------------------------|
| Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STUD | |
| < STUDIES | | |
| Study Home | | |
| Study Details | Interventions | Create new intervention |
| Subscription | There are no interventions that you can view or edit | |
| Interventions | | Title |
| Modules | | |
| Calculated Variables | | |
| E-Mails | | Description |
| Participants | | |
| Metrics | | sel ect image |
| Researchers | | OLLEST INNOL |
| | | Set as default |
| | | SAVE INTERVENTION |

- 5. Optionally, you can add an image. For optimal results in mobile devices, images should have a resolution of at least 1500 pixels.
- 6. Click on SAVE INTERVENTION-. The intervention will be updated.

Now the Intervention page will show you a card for your intervention. You can *open, duplicate* or *delete* your intervention. When you click on open, your intervention details will open on the right side of the screen. Here, for the selected intervention, you can – SET AS DEFAULT –. This means that once the participant is subscribed to the study they will be automatically assigned to this intervention.

| Twente Intervention and | | | 00 | | |
|--|--|--|-------|---|--|
| Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STUDY) | | | | |
| < STUDIES | | | | | |
| Study Home | | | | | |
| Study Details | Interventions | GENERAL MC | DULES | | |
| Subscription | NEW INTERVENTION | | | | |
| Interventions | | First intervention | | | |
| Modules | Search by title Q Sort by - | Title First intervention | | | |
| Calculated Variables E-Mails Participants Metrics | First intervention This is the first intervention | Description This is the first intervention | | | |
| Researchers | DELETE DUPLICATE OPEN | SELECT IMAGE | | | |
| | | SAVE | | ٧ | |

Within the created intervention, you can add **modules** to your intervention. If you already have existing **modules**, see the <u>Adding Existing Modules to Interventions</u> section.

Creating modules

A Module is a collection of survey items within your research. These collections help you organize your questions in groups that are easy to manage during your study.

To create a Module, follow these steps:

1. On the sidebar, click on – MODULES –. Alternatively, you can click on the – MODULES – tab on the Interventions page.

| Twanta Intervention and | | 0 C |
|-------------------------|--|--------------------------------|
| Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK ST | (UDY) > INTERVENTIONS |
| < STUDIES | | |
| Study Home | | |
| Study Details | Interventions | GENERAL MODULES |
| Subscription | NEW INTERVENTION | |
| Interventions | | First intervention |
| Modules | Search by title Q Sort by - | Title First intervention |
| Calculated Variables | , , | |
| E-Mails | First intervention | Description |
| Participants | This is the first intervention | This is the first intervention |
| Metrics | o modules | |
| Researchers | DELETE DUPLICATE OPEN | |
| | | SELECT IMAGE |
| | | Set as default |
| | | SAVE INTERVENTION |
| | | |
| | | |

The following page will open.

| Twente Intervention and | | | | 🗘 😗 📀 |
|-------------------------|--|------------------------------|---|--------------|
| Interaction Machine | STUDIES > TEST > MODULES | | | |
| < STUDIES | | | | |
| Study Home | | | | |
| Study Details | Modules | | Create New Module | |
| Subscription | CREATE NEW MODULE | Search by title Q, Sort by - | | |
| Interventions | | | Unique name (researcher only) | |
| Modules | There are no modules in this study yet | | | |
| Calculated Variables | | | | |
| E-Mails | | | | English |
| Participants | | | Module title | |
| Metrics | | | | |
| Researchers | | | Short description | |
| | | | image | |
| | | | SELECT IMAGE | |
| | | | | |
| | | | Cuestion Onter Specific Order with Routing | · |
| | | | | |
| | | | Progress bar configuration | |
| | | | Add progress bar | |
| | | | Soncor configuration | |
| | | | Sensor comgutation | |
| | | | Choose what type of data should be collected in which period of time. | |
| | | | Sensor types | Time period |
| | | | Heart rate | |
| | | | | Last 6 hours |
| | | | C steep | |
| | | | Choose digital footprint and QPS data collection | |
| | | | Battery life | |
| | | | L1 0P5 | |
| | | | | SAVE MODULE |

2. Fill in the – UNIQUE NAME – field. This is only visible to you, and you can name it after a construct or identifier you choose. This will help you to manage your modules easily within the study. A module ID will be automatically generated after saving the module.

| | | | | 🌩 📵 @ |
|----------------------|--|------------------------------|---|--------------|
| Interaction Machine | STUDIES > TEST > MODULES | | | |
| < STUDIES | | | | |
| Study Home | | | | |
| Study Detalls | Modules | | Create New Module | |
| Subscription | CREATE NEW MODULE | Search by title Q. Sort by - | | |
| Interventions | | | Unique name (researcher only) | |
| Modules | There are no modules in this study yet | | | |
| Calculated Variables | | | | Facility |
| E-Mails | | | | English |
| Participants | | | Module title | |
| Metrics | | | Short description | |
| Researchers | | | | |
| | | | Image | |
| | | | SELECT IMAGE | |
| | | | | |
| | | | Specific Order with Routing | ¥ |
| | | | | |
| | | | Progress bar configuration | |
| | | | Add progress bar | |
| | | | Sensor configuration | |
| | | | Choose what type of data should be collected in which period of time. | |
| | | | | |
| | | | Densor types | Time period |
| | | | | Last 6 hours |
| | | | Sleep | |
| | | | Phonese district features and ABP date uniform | |
| | | | Battery life | |
| | | | GPS | |
| | | | | SAVE MODULE |

3. Fill in the – MODULE TITLE – and its – SHORT DESCRIPTION –. This might also be visible to participants and will help them understand the different segments within the survey.

| - | | | | \$ 0 0 |
|--|--|-----------------------------|--|---------------|
| Twente Intervention and Interaction Machine | STUDIES > TEST > MODULES | | | |
| < STUDIES | | | | |
| Study Home | | | | |
| Study Details | Modules | | Create New Module | |
| Subscription | CREATE NEW MODULE | Search by title Q Sort by - | | |
| Interventions | | | Unique name (researcher only) | |
| Modules | There are no modules in this study yet | | ounder muse (coronation only) | |
| Calculated Variables | | | | |
| E-Mails | | | | English |
| Participants | | | Module title | |
| Metrics | | | | |
| Researchers | | | Short description |) |
| | | | image | |
| | | | SELECT IMAGE | |
| | | | | |
| | | | Question Order Specific Order with Routing | × |
| | | | | |
| | | | Progress bar configuration | |
| | | | Add progress bar | |
| | | | Sensor configuration | |
| | | | | |
| | | | Choose what goe of data should be conected in which period of other. | |
| | | | Sensor types | Time period |
| | | | Heart rate Stops | Lost & hours |
| | | | Sleep | Last 6 nours |
| | | | | |
| | | | Choose digital footprint and OPS data collection | |
| | | | GPS | |
| | | | | SAVE MODULE |
| | | | | |

4. Adding an image. Click on – SELECT IMAGE –. 5. Choosing question order

TIIM allows you to choose among three different configuration of question order for presenting your module items within a survey. The question order has to be setup right from the beginning, when creating a new module. The three different question order configurations are:

- Specific Order with routing: Items in a module will be presented in a predefined order. This predefined order follows the order to which the items were created within the module. Scenario: Five items are created in this module: Participants will be presented with item 1 item 2 item 3 item 4 item 5.
- Randomization per module: The order of items within a specific module will be randomized for each participant in the survey. Each participant in the study therefore gets the items in different orders. Scenario: Five items are created in this module: Participants could be presented with item 4 – item 1 – item 3 – item 5 – item 2.
- Randomization per category: Categories are configured at the module level and attached to individual items within that module. With one category, items within that category will be randomized. With two or more categories, items are be randomized within each category but presented in a defined order among the defined categories. The same categories will not be presented next to each unless there are no more items left in one of the categories.
 - Scenario: One category with five items are created in this module.
 Participants will be presented with category1: item 4 category1: item 1 category1: item 3 category1: item 5 category1: item 2.
 - Scenario: Two categories with five items each are created in this module.
 Participants will be presented with category1: item2 category 2: item 5 category 1: item 4 category 2: item 1 category 1: item 1 category 2: item 3, etc.

| | | | | <u> </u> |
|--|--|------------------------------|---|--------------|
| Twente Intervention and Interaction Machine | STUDIES > TEST > MODULES | | | |
| STUDIES | | | | |
| tudy Home | | | | |
| tudy Details | Modules | | Create New Module | |
| ubscription | CREATE NEW MODULE | Search by title Q, Sort by - | | |
| lerventions | | | Unique name (researcher only) | |
| dules | There are no modules in this study yet | | ouidon source foormation out | |
| culated Variables | | | | |
| Aails | | | | English |
| ticipants | | | Module title | |
| trics | | | Object descelation | |
| searchers | | | Short description | |
| | | | mage | |
| | | | SELECT IMAGE | |
| | | | | |
| | | | Duration Order Specific Order with Routing | |
| | | | | |
| | | | Progress bar configuration | |
| | | | Add progress bar | |
| | | | Sensor configuration | |
| | | | Sensor configuration | |
| | | | Choose what type of data should be collected in which period of time. | |
| | | | Sensor types | Time period |
| | | | Heart rate | |
| | | | Steps | Last 6 hours |
| | | | C steep | |
| | | | Choose digital footprint and QPS data collection | |
| | | | Battery life | |
| | | | L es | |
| | | | | SAVE MODUL |

6. Adding a progress bar (optional)

By selecting – ADD PROGRESS BAR – option, participants will be able to estimate how many questions they have already answered and estimate their time to complete the survey. You can see the **Progress Bar** instructional video through the following link: <u>https://youtu.be/W8LP3w55fPs?si=Pr0x9678FII3CZ8Z</u>

| Twente Intervention and | | | | 🗢 🗘 🤉 🗘 |
|-------------------------|--|------------------------------|--|--------------|
| Interaction Machine | STUDIES > TEST > MODULES | | | |
| < STUDIES | | | | |
| Study Home | | | | |
| Study Details | Modules | | Create New Module | |
| Subscription | CREATE NEW MODULE | Search by title Q. Sort by - | | |
| Interventions | | | Unique name (researcher only) | |
| Modules | There are no modules in this study yet | | | |
| Calculated Variables | | | | |
| E-Mails | | | | English |
| Participants | | | Module title | |
| Metrics | | | Short description | |
| Researchers | | | - | |
| | | | image | |
| | | | SELECT IMAGE | |
| | | | | |
| | | | Specific Order with Routing | * |
| | | | | |
| | | | Programs bar configuration | |
| | | | Add progress bar | |
| | | | Sensor configuration | |
| | | | Chance where we a data should be collected in which period of time | |
| | | | choose what type of basis allow de conscient in which period of other. | |
| | | | Sensor types | Time period |
| | | | Heart rate Steps | Lost & hours |
| | | | □ Steep | Last o noois |
| | | | | |
| | | | Choose digital footprint and OPS data collection | |
| | | | GPS | |
| | | | | SAVE MODULE |
| | | | | SAVE MODULE |

7. Editing sensor or phenotyping data collection (if biometric and/or digital phenotyping data collection enabled) If your study opted for **Biometric Data**, you have to select which data to collect- heart rate, steps, or sleep and establish the time period for biometric data collection. Similarly, if you opted to collect digital phenotyping data, you will need to collect what type of phenotyping data you would like to collect.

| Twente Intervention and | | | | \$ 0 0 |
|-------------------------|--|------------------------------|---|---------------|
| Interaction Machine | STUDIES > TEST > MODULES | | | |
| < STUDIES | | | | |
| Study Home | | | | |
| Study Details | Modules | | Create New Module | |
| Subscription | CREATE NEW MODULE | Search by title Q, Sort by - | | |
| Interventions | | | Uninue name (researcher only) | |
| Modules | There are no modules in this study yet | | oundare on an formeration out?) | |
| Calculated Variables | | | | |
| E-Mails | | | | English |
| Participants | | | Module title | |
| Metrics | | | | |
| Researchers | | | Short description | |
| | | | 100 Lan | |
| | | | SELECT IMAGE | |
| | | | | |
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| | | | араллы уласа чин наявину | |
| | | | Process har configuration | |
| | | | Add progress bar | |
| | | | | |
| | | | Sensor configuration | |
| | | | Choose what type of data should be collected in which period of time. | |
| | | | Sensor types | Time period |
| | | | Heart rate | |
| | | | Steps | Last 6 hours |
| | | | Sleep | |
| | | | Choose hightal footprint and OPS data collection | |
| | | | Battery life | |
| | | | GPS | |
| | | | | SAVE MODULE |

iOS phones can only share sleep and awake data, whereas Android phones can share the type of sleep (light, deep or rem).

8. Finalizing creation of module

- Click on SAVE MODULE -.
- The module page will be updated.

Now the Module page will show you a card for your module. You can open, duplicate

or *delete* your module. When you click on – OPEN –, your module details will open on the right side of the screen. You will now be able to start adding **items** to your module.

| | | | \$ 0 0 |
|----------------------|--|---------|---------------|
| Interaction Machine | STUDIES > TEST > MODULES | | |
| < STUDIES | | | |
| Study Home | | | |
| Study Details | Modules | GENERAL | CONTENT ITEMS |
| Subscription | Click here to add modules to interventions | | |
| Interventions | CREATE NEW MODULE Search by title Q. Sort by * | | |
| Modules | | | |
| Calculated Variables | Module name | | |
| E-Mails | Module description | | |
| Participants | DELETE DUPLICATE OPEN | | |
| Metrics | | | |
| Researchers | | | |
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Creating module items

TIIM is capable of creating 19 different survey items to meet the needs of your study and allow you to collect data in the most suitable and precise manner. The items are designed with utmost flexibility, allowing you to tailor them precisely to your desired outcomes. With a mobile-friendly design, respondents can conveniently participate in surveys from their smartphones, ensuring maximum accessibility and engagement. You can see the **Creating Items** instructional video through the following link: <u>https://youtu.be/mcjJJJ6lwRE?si=FvIGOLRB9INBBYpU</u>

Start creating items

1. On the sidebar, click on the – MODULES – page.

| Twente Intervention and | | | \$ | 0 | 0 | ₽ |
|-------------------------|--|-------------------------|---------|-------|-------|---|
| Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STUDY) > INTERVE | | | | | |
| < STUDIES | | | | | | |
| Study Home | | | | | | |
| Study Details | Interventions | Create new intervention | | | | |
| Subscription | NEW INTERVENTION | | | | | |
| Interventions | | Title | | | | |
| Modules | Search by title Q Sort by - | | | | | - |
| Calculated Variables | | | | | | |
| E-Mails | FIRST INTERVENTION This is the first intervention | Description | | | | - |
| Participants | 3 modules | Image | | | | |
| Metrics | DELETE DUPLICATE OPEN | SELECT IMAGE | | | | |
| Researchers | | | | | | |
| | | Set as default | _ | | | |
| | | | SAVE IN | TERVE | NTION | |
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2. Within the module card, click on - OPEN -.

| | | 🌣 🏮 🔿 | [→ |
|----------------------|--|--|----|
| Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STUDY) > MOL | | |
| < STUDIES | | | |
| Study Home | | | |
| Study Details | Modules | Create New Module | |
| Subscription | Click here to add modules to interventions | | |
| Interventions | CREATE NEW MODULE | Unique name (researcher only) | |
| Modules | Search hy title O Sert hy - | | - |
| Calculated Variables | Search by and | | |
| E-Mails | Third Module | English | |
| Participants | Third Module (duplicate) | Module title | _ |
| Metrics | | Object description | |
| Researchers | DELETE DUPLICATE OPEN | Short description | - |
| | Second Module | Image | |
| | Second Module (duplicate) This is the second module | SELECT IMAGE | |
| | DELETE DUPLICATE OPEN | Question Order Specific Order with Routing | |
| | First Module | | |
| | First Module This is the first module | Progress bar configuration | |
| | | Add progress bar | |

3. On the right-side panel, click on – CONTENT ITEMS –.

| Twente Intervention and | | 🌣 😗 🗇 E+ |
|-------------------------|---|---|
| Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STUDY) > MO | |
| < STUDIES | | |
| Study Home | | |
| Study Details | Modules | GENERAL CONTENT ITEMS |
| Subscription | Click here to add modules to interventions | |
| Interventions | CREATE NEW MODULE | First Module |
| Modules | Search by title Q Sort by | Unique name (researcher only) First Module |
| Calculated Variables | | |
| E-Mails | Third Module | English |
| Participants | Third Module (duplicate) This is the third module | Module title |
| Metrics | | First Module |
| Researchers | DELETE DUPLICATE OPEN | Short description This is the first module |
| | Second Module | |
| | Second Module (duplicate) This is the second module | Image |
| | | SELECT IMAGE |
| | | Question Order |
| | First Module | Specific Order with Routing |
| | First Module This is the first module | |
| | DELETE DUPLICATE OPEN | Progress bar configuration |

4. Click on – ADD MODULE ITEM –.

| Twente Intervention and Interaction Machine | | \$ 19 ⊘ [→ |
|--|---|---|
| | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STUDY) > MOD Modules Click here to add modules to interventions CREATE NEW MODULE Search by title q Search by title q Sort by Third Module Third Module Third Module Third Module | © © ULES GENERAL CONTENT ITEMS First Module 0 ITEMS There are no items in this module. Please add an item by clicking the add module item button. |
| Metrics Researchers | DELETE DUPLICATE OPEN Second Module Second Module Second Module (duplicate) This is the second module DELETE DUPLICATE OPEN First Module First Module Second Module Second Module DELETE DUPLICATE OPEN | |

5. A new page will open



Preview

The Preview tab allows you to visualize how the item will be displayed to participants on their mobile devices.



Routing

The **Routing** tab allows you to define the routing rules for the survey item. This means that based on the participant's answer, the participant is directed to a specific question with the same module. Routing within a module is only possible if you have 3 or more numerical type items with the exception of the second to last item or last item. You can see the **Routing** instructional video through the following link: https://youtu.be/oZ6HeoBFT1s?si=WGM4Han6m67Mm3VI

- 1. After creating different numerical items within a module, open one item.
- 2. In the preview screen, click ROUTING on the right side.

3. Click on - ENABLE ROUTING -.

| Module item | * | PREVIEW | ROUTING |
|--|---------|-------------------------------|-------------------------------|
| B I & Dynamic text How are you feeling today? | English | There are no routing rules of | defined for this module item. |
| B I & Dynamic text | | | |

- 4. Select the item's condition when the participant gives x answer within the item.
 - \circ The options are is equal to –, is not equal to –, is more than –, is less than –, is more than or equal to –, or is less than or equal to –.

| Number slider | | <u>Λ</u> Π | × |
|--------------------|---------|----------------------------------|-------|
| Module item | * | PREVIEW ROUTING | |
| Question | English | Route 1 | × |
| B I S Dynamic text | | If 1. How are you feeling today? | + |
| | | is equal to | • |
| Description | | is not equal to | |
| B I S Dynamic text | | Jump to is less than | • |
| | | is less than or equal to ADD | ROUTE |
| Image | | | |

 \circ $\;$ And the participant's answer is shown as a value or name of the Likert scale.

| Module item | - | | PREVIEW | ROUTING | |
|----------------------------|---------|---------|-------------------------------|---------|---|
| | | | | | |
| | English | Pouto 1 | | | 2 |
| uestion | | Route I | | | |
| B I 🔗 Dynamic text | | If | 1. Hannan van fasting taken 2 | • | |
| How are you feeling today? | | | 1. How are you reening today? | | т |
| | | | | | |
| | | | is equal to | 1 | |
| | | | | 2 | |
| B I & Dynamic text | | | | 3 | |
| | | Jump to | 2. How are you feeling today? | 4 | |
| | | | | 5 | |
| | | | | | |

 \circ Select to which item the participant would jump if the participant gives x answer within the item.

| Module item | ¥ | | PREVIEW | ROUTING | |
|----------------------------|---------|---------|-------------------------------|---------|----------|
| | | | | | |
| Question | English | Route 1 | | | <u> </u> |
| B I & Dynamic text | | If | | | |
| How are you feeling today? | | | 1. How are you feeling today? | | + |
| | | | | | |
| | | | is equal to | 1 | • |
| Description | | | | | |
| B I & Dynamic text | | Jump to | | | |
| | | | 2. How are you feeling today? | | ~ |
| | | | | | |
| | | | | | |

 $\circ~$ If you want to add more than one route, click on – ADD ROUTE –.

| 8 | | 2. How are you feeling today? | | # A ? [|
|--|--------------------|-------------------------------|---|----------------|
| | | | | |
| St | Route 2 | | | 8 |
| St SLECT IMAGE Su Video | lf | 1. How are you feeling today? | * | + |
| Int Minimum value M 1 Ge Maximum value | | is equal to 👻 | 1 | • |
| 10 E-1 Step size Pa 1 | Jump to | 2. How are you feeling today? | | * |
| M English | | | | |
| Refitabel Unhappy Right tabel Hoppy | | | | ADD ROUTE |
| Used for numeric calculation | Otherwise, jump to | 2. How are you feeling today? | | * |
| SAVE | | | | SAVE ROUTING |

 $\circ~$ After you finish adding your routes, click on – SAVE ROUTING –.

| Module item | | | PREVIEW | ROUTING | |
|----------------------------|---------|---------|-------------------------------|---------|---|
| □ Number slider | | | | | |
| | English | | | | 6 |
| Question | | Route 1 | | | |
| B I S Dynamic text | | If | | * | |
| How are you feeling today? | | | 1. How are you reening today? | | т |
| | | | is equal to | 1 | * |
| Description | | | | | |
| B I 🔗 Dynamic text | | Jump to | | | |
| | | | 2. How are you feeling today? | | Ŧ |
| | | | | | |

Creating the different item types

On the left-side of the page, you will be able to create your survey items. To start creating items, select the type of survey item you want to create in the drop-down menu. There are 19 different options for survey items which are categorized into 3 main types. You will find the instructions for each one of them in this manual.

Text answer items:

Single-line input Multi-line input Dropdown Yes/No Multiple choice

Numerical answer items:

Number input Number slider Number dropdown Number choice

Specialized answer items:

Statement Video/Audio Likert scale Camera image Audio recording Emotion quadrant Orbits Network Specialized Drag and Drop Graph

Text answer items

Single line input

A **Single-line Input** item allows the participant to answer a specific question by *typing an answer* in a field. This type of item is more appropriate for *shorter* answers.

Creating a single-line input item

- 1. Click on ADD MODULE ITEM –.
- 2. Select Single-line input in the module item drop-down menu.
- 3. In the question field, insert your text.
 - Customizing your message: click on DYNAMIC TEXT -.
 - Select the items you want to automatically be inserted in your message.
- 4. In the description field, insert additional information (optional).
 - Customizing your message: click on DYNAMIC TEXT -.
 - Select the items you want to automatically be inserted in your message.

Adding image or video (optional)

- 5. Click on SELECT IMAGE -.
 - \circ Upload your image.
- 6. Switch Video ON.
 - \circ $\;$ Insert video URL (only YouTube and Vimeo are accepted).

Answer limit

- **7.** You can select the length of possible answers by determining the maximum number of characters.
- 8. Click on MAXIMUM NUMBER OF CHARACTERS -.
 - Select or type the desired limit of characters.

- 9. Click on SAVE –.
 - \circ You will be directed to the modules dashboard.



Multi line input

A **Multi-line Input** item allows the participant to answer a specific question by *typing an answer* in a field. This type of item is more appropriate for *longer* answers, and they allow the participant to view their inputs in multiple lines on the screen.

Creating a multi-line input item

- 1. Click on ADD MODULE ITEM –.
- 2. Select Multi-line input in the Module item drop-down menu.
- 3. In the question field, insert your text.
 - \circ Customizing your message: click on DYNAMIC TEXT –.
 - Select the items you want to automatically be inserted in your message.
- 4. In the description field, insert additional information (optional).
 - Customizing your message: click on DYNAMIC TEXT -.
 - Select the items you want to automatically be inserted in your message.

Adding an image or video (optional)

- 5. Click on Select image.
 - \circ $\;$ Upload your image.
- 6. Switch Video ON.
 - $_{\odot}$ $\,$ Insert video URL (only YouTube and Vimeo are accepted).

Answer limit

- **7.** You can select the length of possible answers by determining the maximum number of characters.
- 8. Click on MAXIMUM NUMBER OF CHARACTERS -.
 - Select or type the desired limit of characters.

- 9. Click on SAVE -.
 - \circ $\;$ You will be directed to the modules dashboard.



Dropdown

A **Dropdown** item allows the participant to answer a specific question by *selecting a string (text) value* from a dropdown menu. The answer options can be determined by the researcher, and they can be randomly organized.

Creating a dropdown item

- 1. Click on ADD MODULE ITEM –.
- 2. Select Dropdown in the module item drop-down menu.
- 3. In the question field, insert your text.
 - o Customizing your message: click on DYNAMIC TEXT -.
 - Select the items you want to automatically be inserted in your message.
- 4. In the description field, insert additional information (optional).
 - Customizing your message: click on DYNAMIC TEXT -.
 - Select the items you want to automatically be inserted in your message.

Adding an image or video (optional)

- 5. Click on SELECT IMAGE
 - Upload your image.
- 6. Switch Video ON.
 - o Insert video URL (only YouTube and Vimeo are accepted).

Determining string (text) options

- 7. Click on the CHOICES box.
- 8. Add each answer option in a separate line.

Randomizing answer options

9. If you want the **TIIM** app to randomize the options order for each participant, you can select the *Randomized choices* checkbox.

Finalizing item

IO. Click on - SAVE -.

 \circ You will be directed to the modules dashboard.



Yes/No

A Yes/No item allows the participant to answer a specific question by *choosing between two possible answers*. The values on the button labels can be determined by the researcher.

Creating a Yes/No item

- 1. Click on ADD MODULE ITEM –.
- 2. Select Yes/No in the module item drop-down menu.
- 3. In the question field, insert your text.
 - Customizing your message: click on DYNAMIC TEXT -.
 - Select the items you want to automatically be inserted in your message.
- 4. In the description field, insert additional information (optional).
 - o Customizing your message: click on DYNAMIC TEXT -.
 - Select the items you want to automatically be inserted in your message.

Adding an image or video (optional)

- 5. Click on SELECT IMAGE –.
 - \circ Upload your image.
- 6. Switch Video ON.
 - \circ $\;$ Insert video URL (only YouTube and Vimeo are accepted).

Determining button labels

- 7. Determine button labels
 - Click on the Left/Right labels field and add text.

- 8. Click on SAVE -.
 - You will be directed to the modules dashboard.

| Enter yo | ur question in the |
|-----------|--------------------|
| lett pane | 1 |
| Your answ | er No |
| | |
| | |

Multiple choice

A **Multiple-Choice** item allows the participant to answer a specific question by *selecting one or more string (text) values* from a screen menu. The answer options can be determined by the researcher, and they can be randomly organized.

Creating a Multiple-Choice Item

- 1. Click on ADD MODULE ITEM –.
- 2. Select Multiple choice in the module item drop-down menu.
- 3. In the question field, insert your text.
 - Customizing your message: click on DYNAMIC TEXT -.
 - Select the items you want to automatically be inserted in your message.
- 4. In the description field, insert additional information (optional).
 - Customizing your message: click on DYNAMIC TEXT -.
 - Select the items you want to automatically be inserted in your message.

Adding an image or video (optional)

- 5. Click on SELECT IMAGE –.
 - \circ Upload your image.
- 6. Switch Video ON.
 - o Insert video URL (only YouTube and Vimeo are accepted).

Determining string (text) options

- 7. Click on the CHOICES box.
- 8. Add each answer option in a separate line.
- 9. Select or type the minimum number of possible answers
- 10. Select or type the maximum number of possible answers.
- 11. If you want participants to add other possible answers, select ALLOW OTHER OPTIONS -.

Randomizing answer options

12. If you want the **TIIM** app to randomize the options order for each participant, you can select the *Randomized choices* checkbox.

Finalizing item

I 3. Click on – SAVE –.

• You will be directed to the modules dashboard.

| 0% | |
|-----------------|----------------------|
| Enter left p | your question in the |
| Your a | nswer |
| 0 0 | ption 1 |
| 0 0 | ption 2 |
| 0 0 | ption 3 |
| | |

Numerical answer items

Number input

A **Number Input** item allows the participant to answer a specific question by *writing down* a value in the answer field. The minimum and maximum valid values in the numerical range can be determined by the researcher. These numeric values can be later used to compose other survey items or calculate other variables within the **TIIM** app.

Creating number input number

- 1. Click on ADD MODULE ITEM –.
- 2. Select Number input in the module item drop-down menu.
- 3. In the Question field, insert your text.
 - Customizing your message: click on DYNAMIC TEXT -.
 - o Select the items you want to automatically be inserted in your message.
- 4. In the description field, insert additional information (optional).
 - Customizing your message: click on DYNAMIC TEXT -.
 - \circ $\;$ Select the items you want to automatically be inserted in your message.

Adding an image or video (optional)

- 5. Click on SELECT IMAGE -.
 - Upload your image.
- 6. Switch Video ON.
 - o Insert video URL (only YouTube and Vimeo are accepted).

Determining numerical range

- 7. Click on the MINIMUM value field.
 - Select or type the minimum value in the range.
- 8. Click on the MAXIMUM value field.
- 9. Select or type the maximum value in the range

Using for numeric calculation

If you want the **TIIM** app to consider the input values for numeric calculations (Calculated Variables) within the app, select the checkbox next to – USED FOR NUMERIC CALCULATION–.

• You need to create a unique name for a numeric calculation.

- **I 3.** Click on SAVE –.
- You will be directed to the modules dashboard.



Number slider

A **Number Slider** item allows the participant to answer a specific question by *sliding a pointer* to a specific value on a line. The minimum and maximum valid values in the numerical range can be determined by the researcher. These numeric values can be used to compose survey items or calculate variables within the **TIIM** app.

Creating a number slider item

- 1. Click on ADD MODULE ITEM –.
- 2. Select the Number slider in the Module item drop-down menu.
- 3. In the question field, insert your text.
 - Customizing your message: click on DYNAMIC TEXT –.
 - Select the items you want to automatically be inserted in your message.
- 4. In the description field, insert additional information (optional).
 - Customizing your message: click on DYNAMIC TEXT –.
 - Select the items you want to automatically be inserted in your message.

Adding an image or video (optional)

- 5. Click on SELECT IMAGE -.
 - \circ $\;$ Upload your image.
- 6. Switch Video ON.
 - o Insert video URL (only YouTube and Vimeo are accepted).

Determining numerical range

- 7. Click on the MINIMUM value field.
 - Select or type the minimum value in the range.
- 8. Click on the MAXIMUM value field.
 - Select or type the maximum value in the range.
- 9. Click on STEP size.
 - Select or type the step size (interval between values).

Button Labels

10. Click on the Left/Right Labels field and add text.

Finalizing item

If you want the **TIIM** app to consider the input values for numeric calculations within the app, select the checkbox next to – USED FOR NUMERIC CALCULATION –.

• You need to create a unique name for a numeric calculation.

- 11. Click on SAVE -.
 - You will be directed to the modules dashboard.



Number dropdown

A **Number Dropdown** item allows the participant to answer a specific question by *selecting a numerical value* from a dropdown menu. The minimum and maximum valid values in the numerical range can be determined by the researcher. These numeric values can be later used to compose other survey items or calculate other variables within the **TIIM** app.

Creating a number slider item

- 1. Click on ADD MODULE ITEM –.
- 2. Select Number dropdown in the module item drop-down menu.
- 3. In the question field, insert your text.
 - Customizing your message: click on DYNAMIC TEXT -.
 - o Select the items you want to automatically be inserted in your message.
- 4. In the description field, insert additional information (optional).
 - Customizing your message: click on DYNAMIC TEXT -.
 - Select the items you want to automatically be inserted in your message.

Adding an image or video (optional)

- 5. Click on SELECT IMAGE -.
 - Upload your image.
- 6. Switch Video ON.
 - o Insert video URL (only YouTube and Vimeo are accepted).

Determining numerical range

- 7. Click on the MINIMUM value field.
 - Select or type the minimum value in the range.
- 8. Click on the MAXIMUM value field.
 - Select or type the maximum value in the range.
- 9. Click on STEP size.
 - Select or type the step size (interval between values).

Using for numeric calculation

If you want the **TIIM** app to consider the input values for numeric calculations within the app, select the checkbox next to – USED FOR NUMERIC CALCULATION –.

• You need to create a unique name for a numeric calculation.

- 10. Click on SAVE -.
 - You will be directed to the modules dashboard.



Number choice

A **Number Choice** item allows the participant to answer a specific question by *selecting a numerical value* on the screen. The minimum and maximum valid values in the numerical range can be determined by the researcher. These numeric values can be later used to create other survey items or calculate other variables within the **TIIM** app.

Creating a number slider item

- 1. Click on ADD MODULE ITEM –.
- 2. Select Number choice in the Module item drop-down menu.
- 3. In the Question field, insert your text.
 - \circ Customizing your message: click on DYNAMIC TEXT –.
 - Select the items you want to automatically be inserted in your message.
- 4. In the description field, insert additional information (optional).
 - Customizing your message: click on DYNAMIC TEXT -.
 - \circ $\;$ Select the items you want to automatically be inserted in your message.

Adding an image or video (optional)

- 5. Click on SELECT IMAGE –.
 - Upload your image.
- 6. Switch Video ON.
 - o Insert video URL (only YouTube and Vimeo are accepted).

Determining numerical range

- 7. Click on STEP size.
 - o Select or type the step size (interval between values).
- 8. Button Labels
 - Click on the Left/Right Labels field and add text.

Using for numeric calculation

If you want the **TIIM** app to consider the input values for numeric calculations within the app, select the checkbox next to – USED FOR NUMERIC CALCULATION –.

 \circ $\;$ You need to create a unique name for a numeric calculation.

- 9. Click on SAVE -.
 - \circ $\;$ You will be directed to the modules dashboard.



Specialized answer items

Statement

A **Statement** item is a written message that the researcher may want to communicate to participants at any time during a survey. It may be a greeting, an instruction or any other relevant information that do not require an immediate action or response from the participant.

The TIIM app allows you to share the following items:

- Text: our message will appear as a survey item in the app. The Dynamic Text feature allows you to customize your message with participants details, such as name or email. You can also add images or videos to your message.
- **Image:** for optimal results in mobile devices, images should have a resolution

of at least 1500 pixels.

• Video: video contents must be hosted either in YouTube or Vimeo.

Creating a statement item

- 1. Click on ADD MODULE ITEM –.
- 2. Select Sstatement in the module item drop-down menu.
- 3. In the statement field, insert your text.
 - o Customizing your message: click on DYNAMIC TEXT -.
 - o Select the items you want to automatically be inserted in your message.
- 4. In the description field, insert additional information (optional).
 - o Customizing your message: click on DYNAMIC TEXT -.
 - Select the items you want to automatically be inserted in your message.

Adding an image or video (optional)

- 5. Click on SELECT IMAGE -.
 - Upload your image.
- 6. Switch video ON (optional)
 - \circ ~ Insert video URL (only YouTube and Vimeo are accepted).

Button Label (optional)

7. Click on the button label field and add text.

- 8. Click on SAVE -.
 - \circ $\;$ You will be directed to the modules dashboard.



Video/Audio

A **Video/Audio** item is an audio and/or visual message that the researcher may want to communicate to participants at any time during a survey. The main difference with the Statement item, is that in Video/Audio you can upload your own file and not a URL from a streaming service. The **TIIM** app allows you to share the following items:

- Text: our message will appear as a survey item in the app. The dynamic text feature allows you to customize your message with participants details or other responses, such as name or email.
- Video/Audio: media file size should not be larger than 3mb.

Participants cannot react to **Video/Audio** items. However, to proceed, they must acknowledge their viewing by clicking a button. The default label for the button is **OK**, but you may customize it.

Creating a Video/Audio item

- 1. Click on ADD MODULE ITEM –.
- 2. Select Video/Audio in the module item drop-down menu.
- 3. In the statement field, insert your text.
 - Customizing your message: click on DYNAMIC TEXT -.
 - Select the items you want to automatically be inserted in your message.
- 4. In the description field, insert additional information (optional).
 - Customizing your message: click on DYNAMIC TEXT -.
 - o Select the items you want to automatically be inserted in your message.

Adding image or video (optional)

- 5. Click on SELECT VIDEO OR AUDIO -.
 - \circ Upload your file. Files larger than 3mb are tot accepted by the system.

Button Label (optional).

6. Click on the button label field and add text.

- 7. Click on SAVE -.
 - \circ $\;$ You will be directed to the modules dashboard.


Likert scale

A **Likert Scale** item allows the participant to answer a specific question by *selecting string (text) values* from within a range of options. They are a commonly used rating scale for measuring the degree of agreement or disagreement with a statement by offering a range of response options, typically from "strongly disagree" to "strongly agree.

Creating a Likert scale item

- 1. Click on ADD MODULE ITEM –.
- 2. Select Likert scale in the module item drop-down menu.
- 3. In the question field, insert your text.
 - Customizing your message: click on − DYNAMIC TEXT −.
 - Select the items you want to automatically be inserted in your message.
- 4. In the description field, insert additional information (optional).
 - Customizing your message: click on DYNAMIC TEXT -.
 - o Select the items you want to automatically be inserted in your message.

Adding an image or video (optional)

- 5. Click on SELECT IMAGE -.
 - Upload your image.
- 6. Switch Video ON.
 - o Insert video URL (only YouTube and Vimeo are accepted).

Determining scale options

- 7. Click on the CHOICES box.
- 8. Add each answer option in a separate line.
- 9. Remember to add them in the appropriate order within the range.
- 10. If you want participants to add other possible answers, select Allow other Option.

Using for numeric calculation

If you want the **TIIM** app to consider the input values for numeric calculations within the app, select the checkbox next to – USED FOR NUMERIC CALCULATION –.

• You need to create a unique name for a numeric calculation.

- 11. Click on SAVE -.
 - You will be directed to the modules dashboard.



Camera image

A **Camera Image** item allows participants to *take a picture or upload an image from the camera from their mobile devices*, upon request. You may also add an image to the survey item, if necessary.

Creating camera image item

- 1. Click on ADD MODULE ITEM –.
- 2. Select Camera image in the module item drop-down menu.
- 3. In the question field, insert your text.
 - Customizing your message: click on DYNAMIC TEXT -.
 - Select the items you want to automatically be inserted in your message.
- 4. In the description field, insert additional information (optional).
 - Customizing your message: click on DYNAMIC TEXT -.
 - Select the items you want to automatically be inserted in your message.

Adding an image or video (optional)

- 5. Click on SELECT IMAGE -.
 - Upload your image.
- 6. Switch Video ON.
 - \circ $\;$ Insert video URL (only YouTube and Vimeo are accepted).

- 7. Click on SAVE -.
 - \circ $\;$ You will be directed to the modules dashboard.



Audio recording

An **Audio Recording** item allows participants to *send an audio recording* upon request. You may also add an image to the survey item, if necessary.

Creating audio recording item

- 1. Click on ADD MODULE ITEM –.
- 2. Select audio recording in the module item drop-down menu.
- 3. In the question field, insert your text.
 - Customizing your message: click on DYNAMIC TEXT -.
 - Select the items you want to automatically be inserted in your message.
- 4. In the description field, insert additional information (optional).
 - Customizing your message: click on DYNAMIC TEXT -.
 - Select the items you want to automatically be inserted in your message.

Adding an image or video (optional)

- 5. Click on SELECT IMAGE -.
 - Upload your image.
- 6. Switch Video ON.
 - o Insert video URL (only YouTube and Vimeo are accepted).

- 7. Click on SAVE –.
 - You will be directed to the modules dashboard.



Emotion quadrant

The **Emotion Quadrant** is a visual representation that categorizes emotions based on two dimensions, typically valence (positive/negative) and arousal (low/high), allowing respondents to indicate their emotional state by selecting a point within the quadrant that corresponds to their current emotional experience. Participants are requested to *drag a pointer to a desired location within the quadrant*, and the obtained values are calculated based on the pointer's coordinate. The image used in the Emotions quadrant is selected by the researcher.

Creating an emotion quadrant item

- 1. Click on ADD MODULE ITEM –.
- 2. Select EMOTION QUADRANT –in the module item drop-down menu.
- 3. In the Statement field, insert your text.
 - \circ Customizing your message: click on DYNAMIC TEXT –.
 - \circ $\;$ Select the items you want to automatically be inserted in your message.
- 4. In the Description field, insert additional information (optional).
 - \circ Customizing your message: click on DYNAMIC TEXT –.
 - \circ $\;$ Select the items you want to automatically be inserted in your message.

Adding an image (optional)

- 5. Click on SELECT IMAGE -.
 - Upload your image. The image must be squared (1:1 ratio) and the resolution may not exceed 2000 pixels.

- 6. Click on SAVE –.
 - \circ $\;$ You will be directed to the modules dashboard.



Orbits

In an Orbits item, participants are requested to *select an item and place it on a concentric circle*. The orbits matrix collects three different values: the relative distance of the object to the center, the tag used to identify the item, the value the participant attributed as perceived "warmth" in the sliding bar, and the orbit image. In Orbits, you may add up to 10 items, each identified by a different icon.

Creating an orbits item

- 1. Click on ADD MODULE ITEM –.
- 2. Select ORBITS in the Module item drop-down menu.
- 3. In the statement field, insert your text.
 - Customizing your message: click on DYNAMIC TEXT -.
 - \circ $\;$ Select the items you want to automatically be inserted in your message.
- 4. In the Description field, insert additional information (optional).
 - Customizing your message: click on DYNAMIC TEXT -.
 - Select the items you want to automatically be inserted in your message.
- 5. Select or type number of desired orbits (up to 10 concentric circles).

Customizing item

You may customize and rename items to suit your survey question. You cannot add or modify icons.

- 6. Type in the name of your item in NAME OF THE ITEM -.
- 7. Select an icon for the item.
- 8. Click on ADD ITEM –.

Reuse of orbits item

As an additional resource, the **TIIM** app allows you to save the item set you have created to be used in other survey items in your study.

- 9. Click on SAVE -.
 - \circ You will be directed to the modules dashboard.



Network

The Network item asks participants to add a label identifying the item, indicate the warmth of the item and then place it on one of the lines within the circle image as a response. The Network matrix collects two different values: the relative distance of the object to the centre, the value the participant attributed as perceived "warmth" in the sliding bar, and the network image. In a Network item, participants choose the icons and their corresponding



labels. The number of items may be limited by the researcher (max.10).

Creating a network item

- 1. Click on ADD MODULE ITEM –.
- 2. Select NETWORK in the module item drop-down menu.
- 3. In the statement field, insert your text.
 - Customizing your message: click on DYNAMIC TEXT -.
 - Select the items you want to automatically be inserted in your message.
- 4. In the Description field, insert additional information (optional).
 - \circ Customizing your message: click on DYNAMIC TEXT –.
 - Select the items you want to automatically be inserted in your message.
- 5. Add the question to be used in the *warm slider bar*.
- 6. Name the left side label (cold/blue side).
- 7. Name the right side label (hot/red side).
- 8. Select or type number of desired orbits (up to 10 concentric circles).

Reuse of network item

As an additional resource, the **TIIM** app allows you to save the item set you have created to be used in other survey items in your study.

- 9. Click on SAVE -.
- You will be directed to the modules dashboard.

Specialized drag and drop

The **Specialized Drag and Drop** item participants are asked to categorize an item by dragging and dropping it into a group or category. This allows the participant to interact with the survey by manipulating the items or option provided. Only one answer is considered valid.

Creating specialized drag and drop item

- 1. Click on ADD MODULE ITEM –.
- 2. Select SPECIALIZED DRAG-AND-DROP in the module item drop-down menu.



- 3. In the statement field, insert your text.
 - o Customizing your message: click on DYNAMIC TEXT -.
 - o Select the items you want to automatically be inserted in your message.
- 4. In the description field, insert additional information (optional).
 - Customizing your message: click on − DYNAMIC TEXT −.
 - o Select the items you want to automatically be inserted in your message.
- 5. If you select the *Hide Info Part* feature, questions and drag-and-drop feature will be displayed separately.

Adding image or video (optional)

- 6. Click on SELECT IMAGE -.
 - Upload your image.
- 7. Switch Video ON.
 - Insert video URL (only YouTube and Vimeo are accepted).

Creating zones and objects

- 8. Determine which zone will correspond to the valid answer top or bottom -.
- 9. You can customize each zone with its unique color, audio and labelling.
 - The audio feature indicates right and wrong answers. You may use the default audio or add a new sound file.
- 10. You can label each zone or add a word to it. The drag is the moveable object.
 - \circ Choose color of the object.
 - Write word to be contained in the object.

- 11. Click on SAVE -.
 - a. You will be directed to the modules dashboard.

Graph

A **Graph** item provides participants with a visualization of data based on their inputs during the study. The **TIIM** application can create graphs that will enable the participants to see their data over time or as a result of a calculated variable. When creating a graph over time, the y-axis will show the module item's score while the x-axis will show its completion date. This is not a query item, so participants only need to click an acknowledgement button to proceed.

Creating a graph item

- 1. Click on ADD MODULE ITEM –.
- 2. Select GRAPH in the Module item drop-down menu.
- 3. In the statement field, insert your text.
 - Customizing your message: click on − DYNAMIC TEXT −.
 - o Select the items you want to automatically be inserted in your message.
- 4. In the Description field, insert additional information (optional).
 - Customizing your message: click on − DYNAMIC TEXT −.
 - o Select the items you want to automatically be inserted in your message.
- 5. In the Add dynamic text variable field, click in DYNAMIC TEXT –.
 - The following prompt will appear:

| Add module item answer | × |
|------------------------|--------|
| Select a module first | |
| | ~ |
| Select module item | |
| | ~ |
| | |
| ок | CANCEL |

- Select the module containing the desired item.
- Select the item from within the module.
- Repeat procedure for each variable.

Labeling

- 6. Click on the Button Label field and add text.
- 7. Click on the Y axis field and add text.
- 8. Click on the X axis field and add text.

- 9. Click on SAVE -.
 - \circ $\;$ You will be directed to the Modules dashboard.



Configuring a study

Adding modules to interventions

Once you have created a few modules, you can add them to different interventions in the same study. To add existing modules to an intervention, follow these steps:

1. Within the interventions card, click on - OPEN -.

| Twente Intervention and | | | \$ | 0 | 0 | €→ |
|-------------------------|---|-------------------------|--------|--------|-------|----|
| Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STUDY) > INTERVEN | | | | | |
| < STUDIES | | | | | | |
| Study Home | | | | | | |
| Study Details | Interventions | Create new intervention | | | | |
| Subscription | NEW INTERVENTION | | | | | |
| Interventions | | Title | | | | |
| Modules | Search by title Q Sort by - | | | | | - |
| Calculated Variables | First intervention | Developing | | | | |
| E-Mails | FIRST INTERVENTION This is the first intervention | Description | | | | -0 |
| Participants | 1 modules | Image | | | | |
| Metrics | DELETE DUPLICATE OPEN | SELECT IMAGE | | | | |
| Researchers | | | | | | |
| | | Set as default | _ | | | |
| | | | SAVE I | NTERVE | NTION | |
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2. On the upper-right side, click on - MODULES -.

| Twente Intervention and | | | 🌣 🛈 📀 🕞 |
|---|---|--|-------------------|
| Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STUDY) > INTERVENTIO | NS | |
| < STUDIES | | | |
| Study Home Study Details Subscription Interventions Modules | Interventions New INTERVENTION Search by title Q Sort by | GENERAL First intervention Title First intervention | MODULES |
| Calculated Variables E-Mails Participants Metrics Researchers | First intervention This is the first intervention C modules DELETE DUPLICATE OPEN | Description This is the first intervention Image SELECT IMAGE | SAVE INTERVENTION |

3. On the - SELECT A MODULE - dropdown field, select the desired module.

| Twente Intervention and Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STUDY) > INTERVENTIONS | | \$ 8 ⊘ ⊖ |
|---|--|--|------------------|
| STUDIES Study Home Study Details Subscription Interventions Modules Calculated Variables E-Mails Participants Metrics Researchers | Interventions NEW INTERVENTION Search by title Q Sort by First intervention Driss is the first intervention Drisse | GENERAL First intervention First Module Second Module Third Module | MODULES + ADD |

4. Click on the - + ADD - button.

| Twente Intervention and | | | κ | 2 | 0 | 0 | E→ |
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| Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STUDY) > INTERVENTIONS | | | | | | |
| < STUDIES | | | | | | | |
| Study Home | | | | | | | |
| Study Details | Interventions | JENERAL | MOD | ULES | | | |
| Subscription | NEW INTERVENTION | | | | | | - |
| Interventions | First inter | vention | | | | | |
| Modules | Search by title Q Sort by - | | | | | | |
| Calculated Variables | First Intervention First Module | r i i i i i i i i i i i i i i i i i i i | * | | + | ADD | |
| E-Mails | This is the first intervention | | | | | | |
| Participants | 0 modules | | | | | | |
| Metrics | DELETE DUPLICATE OPEN | | | | | | |
| Researchers | | | | | | | |
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5. Repeat steps 3 and 4 for every module you want to add.

Setting timing rules

By default, all modules within an Intervention are visible to the participants once the study begins. However, you may want to set specific timers to a module, namely, Timing Rules. You can see the **Timing Rules** instructional video through the following link: https://youtu.be/cWkduqyjUvA?si=VIQ2mf409y0V_8fW

| i. vviunin ure m | iterventions card, click off – OPEN –. | | |
|-------------------------|--|-------------------------|---|
| Twente Intervention and | | 0 (| ÷ |
| Interaction Machine | | | |
| < STUDIES | | | |
| Study Home | | | |
| Study Details | Interventions | Create new intervention | |
| Subscription | NEW INTERVENTION | Title | |
| Interventions | | | |
| Modules | Search by title Q Sort by - | | |
| Calculated Variables | | Description | |
| E-Mails | First intervention | | |
| Participants | 3 modules | Image SELECT IMAGE | |
| Metrics | | | |
| Researchers | DELETE DUPLICATE OPEN | Set as default | |
| | | SAVE INTERVENTION | |
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Within the interventions card, click on - OPEN 1

2. On the upper-right side, click on - MODULE -.

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|-------------------------|-----------------------------|--------------------------------|-------------------|
| Interaction Machine | | | |
| < STUDIES | | | |
| Study Home | | | |
| Study Details | Interventions | GENERAL | MODULES |
| Subscription | NEW INTERVENTION | | |
| Interventions | | First intervention | |
| Modules | Search by title Q Sort by 🔻 | Title First intervention | |
| Calculated Variables | | | |
| E-Mails | First intervention | Description | |
| Participants | 3 modules | This is the first intervention | |
| Metrics | | Image | |
| Researchers | DELETE DUPLICATE OPEN | SELECT IMAGE | |
| | | | |
| | | Set as default | |
| | | | SAVE INTERVENTION |
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3. Click on the timer icon next to the Module that you want to add Timing Rules.

| Twente Intervention and | | 🔋 💿 [|
|---------------------------------|---|------------------------------------|
| Interaction Machine | STUDIES > MOCK STUDY > INTERVENTIONS | |
| < STUDIES | | |
| Study Home Study Details | Interventions | GENERAL MODULES |
| Interventions | NEW IN LEVEN I UN | First intervention |
| Modules Calculated Variables | Search by title <u>Q</u> Sort by <u>*</u> | First module |
| E-Mails Participants | First intervention | Second module |
| Metrics | 3 modules DELETE DUPLICATE OPEN | Third module |
| Researchers | | You've added all available modules |
| | | |
| | | |
| | | |

You will land on the Timing Rules tab:

| Twente Intervention and | | |
|-------------------------|---|---------|
| Interaction Machine | STUDIES > MOCK STUDY > INTERVENTIONS | |
| < STUDIES | First module | × |
| Study Home | | |
| Study Details | Timing Rules Notifications | MODULES |
| Subscription | | |
| Interventions | Modules will be available to the participants by default | |
| Modules | If you don't want this module to be visible by default, you can add one of multiple timing rules below. | |
| Calculated Variables | | |
| E-Mails | ENABLE TIMING KULES | 🛑 🖉 🛑 |
| Participants | | |
| Metrics | | |
| Researchers | | |
| | | ules |
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| | SAVE | |
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4. Click on - ENABLE TIMING RULES -.

| Twente Intervention and | | ● ② 日 |
|-------------------------|--|--------------|
| Interaction Machine | STUDIES > MOCK STUDY > INTERVENTIONS | |
| < STUDIES | First module X | |
| Study Home | | |
| Study Details | Timing Rules Notifications | MODULES |
| Subscription | | |
| Interventions | | |
| Modules | Timing rule 1 ^ | |
| Calculated Variables | Open module Select a type of open rule | |
| E-Mails | Close module | • 🕉 🖬 |
| Participants | ADD CONDITION | |
| Metrics | ADD TIMING DILLE | |
| Researchers | | |
| | | ules |
| | | |
| | | |
| | | |
| | SAVE | |
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The Timing Rules tab will appear with the options for your first timing rule:

| Twente Intervention and | | () ⑦ ⊡ |
|-------------------------|--|--------------|
| Interaction Machine | STUDIES > MOCK STUDY > INTERVENTIONS | |
| < STUDIES | First module × | |
| Study Home | | |
| Study Details | Timing Rules Notifications | MODULES |
| Subscription | | |
| Interventions | | |
| Modules | Timing rule 1 ^ | |
| Calculated Variables | Onen module y Select a tune of onen rule y | |
| E-Mails | | • × • |
| Participants | ADD CONDITION | |
| Metrics | | |
| Researchers | ADD TIMING RULE | |
| | | ules |
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| | SAVE | |
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| Twente Intervention and | | () ⑦ [→ |
|-------------------------|--------------------------------------|---------|
| Interaction Machine | STUDIES > MOCK STUDY > INTERVENTIONS | |
| < STUDIES First | t module | × |
| Study Home | | |
| Study Details | Timing Rules Notifications | MODULES |
| Subscription | | |
| Interventions | | |
| Modules | Timing rule 1 | |
| Calculated Variables | Open module | |
| E-Mails | | 😑 🖏 🗊 |
| Participants | ADD CONDITION | |
| Metrics | | |
| Researchers | | |
| | | ules |
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6. Select the type of timing rule, fill in the details & click save. The chosen timing rule is no saved.

7. For both open and close module, you can add another condition to the same timing rule by clicking on – ADD CONDITION –. Repeat this process as necessary.

| Twente Intervention and | | ● ② 🗗 |
|-------------------------|---|--------------|
| Interaction Machine | STUDIES > MOCK STUDY > INTERVENTIONS | |
| < STUDIES | First module X | |
| Study Home | | |
| Study Details | Timing Dulae Notifications | MODULES |
| Subscription | | |
| Interventions | | |
| Modules | Timing rule 1 ^ | |
| Calculated Variables | Onen module v On a fixed date | |
| E-Mails | | • 🕸 🖬 |
| Participants | Fixed date and time 02-09-2024 08:00 | |
| Metrics | | |
| Researchers | ADD CONDITION | |
| | ADD TIMING RULE | ules |
| | | |
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| | | |
| | SAVE | |
| | | |
| | | |

8. To add an alternative timing rule, click on – ADD TIMING RULE –. Repeat this process as necessary.

| Twente Intervention ar | | | | | () ⑦ ⊡ |
|------------------------|----------------------------|-----------------------------|-----|---------------|----------|
| | STUDIES > MOCK STUDY (DUPL | | | | |
| < STUDIES | First module | | | | |
| Study Pome | | | | | MODIFIES |
| Subscription | Timing Rules | Notifications | | | MODULES |
| Interventions | Timing rule 1 | | | | |
| Modules | | 70. F. | | | |
| Calculated Variables | Open module | ed date | | • • | • 8 |
| E-Mails | Fixed date : 02-09-20 | and time 024 08:00 | | | |
| Participants | | | | | |
| Metrics | and When a | module hasn't been finished | | · 0 | • 🕷 🗊 |
| Researchers | | | | | |
| | Module | Second module | 3 | | ules |
| | | | | ADD CONDITION | |
| | | | | | |
| | | ADD TIMING RU | ILE | | - |
| | | | | SAVE | |
| | | | | | |
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Timing rules for ESM Module

1. Once indicating ESM Module as a timing rule, a calendar will appear.

| Twente Intervention and | 1 | | | | | | | | 0 0 |) ⊡ |
|-------------------------|------------------------------|-----------------------|---------------------|--------------------|------------------------|---------------------|-------------|----|--------------|-----|
| Interaction Machine | STUDIES > N | | | | | | | | | |
| < STUDIES | First module | | | | | | | × | | |
| Study Home | | | | | | | | | | |
| Study Details | Timing Rule | | Notificatio | ns | | | | | MODULES | |
| Subscription | | | Hounouto | | | | 1 | | | _ |
| Interventions | | | | | | | | | | |
| Modules | Timing rule 1 | ^ | | | | | | | | 1 |
| Calculated Variables | ESM module | ▼ Repeatir | nodule based on fi | xed date | | | | | | |
| E-Mails | | Repear | noulle bubea on h | | | | | | • × • | |
| Participants | Please keep in r anymore! | nind that once partic | cipants starts answ | vering this module | you will not be able t | o edit the ESM timi | ng rule | | | |
| Metrics | | | | | | | | | | |
| Researchers | Month | | | | | Clea | ar calender | | | |
| | Week | | | | | _ | | | ules | |
| | | | < | July 2024 | > | | | | | |
| | Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | | | |
| | 30 | 1 | 2 | 3 | 4 | 5 | 6 | | | |
| | | | | | | | SA | VE | | |
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The Timing Rule that is true, will be triggered for the participant.

2. By clicking on a specific day in the calendar, another pop-up page opens. You can specify the conditions for the repetition of the timing rule for the ESM module.

| Twente Intervention ar | nd | | | | | | 0 ⊙ [→ |
|------------------------|------------------|---------------------|-----------------------|------------|-------------|------|---------------|
| Interaction Machine | STUDIES > M | | | | | | |
| < STUDIES | First module | | | | | | |
| Study Home | | | First module | | × | | |
| Study Details | Timing Rule | Start Date | Single Range of | End date | | | MODULES |
| Subscription | Please keep in m | 2024.07.08 | | 2024.07.12 | 🗖 g rule | | |
| Interventions | anymore! | | Su Mo Tu We Th | | | | |
| Modules | Month | | Jan Sa | | calende | | |
| Calculated Variables | Week | Start time | | End time | Calonao | | 001 |
| E-Mails | | 06:00 | © | 23:00 | | | • X I |
| Participants | Sunday | | | | Saturda | / | |
| Metrics | | O Answer one time | 0 | | | 6 | |
| Researchers | | | | 22 (34) | | | |
| | 7 | Iteratively betweer | n start and end time, | 11 | mes (?) | 13 | ules |
| | | Randomly between | n start and end time, | ti | mes 🧿 | | |
| | | | | | | | |
| | 14 | Cancel | | Sa | ave | 20 | |
| | | c | | | _ | SAVE | |
| | | | | | | | |
| | | | | | | | |

3. Once you have finished editing any Timing Rules, click on - SAVE -.

| Twente Intervention ar | nd STUDIES > M | OCK STUDY > INTERVENTIONS | | 0 ⊘ ⊖ |
|------------------------|-------------------|---|-----------|--------------|
| < STUDIES | First module | | | |
| Study Home | | First module | | |
| Study Details | Timing Rule | Date | | MODULES |
| Subscription | Please keep in m | 2024.07.04 Bingle Date Range of Dates | g rule | |
| Interventions | anymore! | | | |
| Modules | Month | Start time End time | in lander | |
| Calculated Variables | Week | -:- © -:- | © | |
| E-Mails | | | | • × = |
| Participants | Sunday | Answer one time | Saturday | |
| Metrics | 31 | | 6 | • × • |
| Researchers | | O Iteratively between start and end time, | times ⑦ | |
| | | | | ules |
| | | Randomly between start and end time, | times ⑦ | |
| | | Cancel | Sava | |
| | 14 | Calle | 20 | |
| | | | SAVE | |
| | | | SAVE | |
| | | | | |
| | | | | |

The Timing Rules is now added:

| Twente Intervention and | | | 0 ⊡ |
|-------------------------|--------------------------------------|----------------------|----------------|
| Interaction Machine | STUDIES > MOCK STUDY > INTERVENTIONS | | |
| < STUDIES | | | |
| Study Home | | | |
| Study Details | Interventions | GENERAL | MODULES |
| Subscription | NEW INTERVENTION | | |
| Interventions | | First intervention | |
| Modules | Search by title Q Sort by • | | |
| Calculated Variables | | First module | |
| E-Mails | FIRST INTERVENTION | Second module | 😑 🖄 🗐 |
| Participants | 3 modules | | |
| Metrics | | Third module | |
| Researchers | | | |
| | | You've added all ava | ilable modules |
| | | CREATE NEW I | MODULE |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Notifications

For a specific module, you can send **Notifications** to your participants. You can see the **Notifications** instructional video through the following link:

https://youtu.be/cWkduqyjUvA?si=VI02mf409y0V_8fW

1. Click on the timer icon next to the Module that you want to add Timing Rules.

| Twente Intervention and | | | \$ | Ø | 0 | E→ |
|---------------------------------|---|-----------------------------------|------------------|----|---|----|
| Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STUDY) > INTERVED | | | | | |
| < STUDIES | | | | | | |
| Study Home Study Details | Interventions | GENERAL | MODUL | ES | | _ |
| Interventions | NEW INTERVENTION | First intervention | | | | |
| Modules Calculated Variables | Search by title Q Sort by - | First Module | | Ŏ | | |
| E-Mails | First intervention This is the first intervention | Second Module | | ×. | | |
| Participants Metrics | 3 modules | Third Module | | 8 | | |
| Researchers | DELETE DUPLICATE OPEN | | | | | |
| | | You've added all av CREATE NEV | vailable modules | | | |
| | | | | | | |

2. Click on the - NOTIFICATIONS - tab.

| Twente Intervention ar Interaction Machine | nd STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STUDY) > INTERVENTIONS | ¢ 0 ⊘ ⊡ |
|---|--|----------------|
| < STUDIES | First Module | × |
| Study Home | | |
| Study Details | Timing Dulee Natifications | MODULES |
| Subscription | Huming Rules Huminations | |
| Interventions | | |
| Modules | Timing rule 1 | |
| Calculated Variables | Deep module De a fixed data | Ô 🗊 |
| E-Mails | | 18 H |
| Participants | Fixed date and time | |
| Metrics | 18-09-2023 21:59 | ũ Ø |
| Researchers | | |
| | and When a module hasn't been finished 🚽 📋 | dules |
| | | |
| | Module Second Module + | |
| | | |
| | | |
| | SAVE | |
| | | |
| | | |

3. Select the type of notification that you would like to add.

| Twente Intervention an Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STUDY) > INTERVENTIONS | \$ 8 ⊘ ⊡ |
|---|--|-----------------|
| < STUDIES | First Module × | |
| Study Details Subscription | Timing Rules Notifications | MODULES |
| Interventions Modules | Open Notification | |
| Calculated Variables E-Mails | English When the module becomes available for the participant, a open notification will be sent. If you want to add custom text to the open notifications, fill in the details below. Otherwise leave blank. | 1 V |
| Participants Metrics | Open notification text in English | 81 |
| Researchers | ADD REMINDER NOTIFICATION | odules |
| | | |
| | SAVE | |
| | | |

Based on your added timing rules, you will see – OPEN NOTIFICATION – which sends a notification to the participant when the module is open, – CLOSE NOTIFICATION – (only enabled when timing rule is based on a time and date) which sends a notification to the participant when the module is closed, and – REMINDER NOTIFICATION – which sends a notification to remind participants to fill in the module.

4. Enter the notification text of your choosing.

| Twente Intervention and Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STUDY) > INTERVENTIONS | |
|--|---|---------|
| < STUDIES | First Module × | |
| Study Details | Timing Rules Notifications | MODULES |
| Interventions | Open Notification | |
| Modules Calculated Variables | English When the module becomes available for the participant, a open notification will be sent. | ÔÎ |
| E-Mails Participants | leave blank. Open notification test in English The Research "Students Well-Being in Twente" is available. Fill it in now! | ă îi |
| Metrics Researchers | | T Ø |
| | ADD REMINDER NOTIFICATION | dules |
| | | |
| | SAVE | |
| | | |
| | | |

5. Repeat steps 3 and 4 for every module you want to add.

If you would like to delete the Open Notification and Close Notification, you need to remove the timing rule first.



For Close Notification and Reminder Notification, set the time of your preference.

6. Click on – SAVE –. The notification is now added.

| Twente Interventio | on and | | | | \$ | 0 | 0 | E→ |
|----------------------|--------------------------------|--------------------------|--|---|--------|---------|--------|----|
| Interaction Machin | STUDIES > STUDENTS WELL-BEIN | NG IN TWENTE (MOCK STUDY |) > CALCULATED VARIABLES | 8 | | | | |
| < STUDIES | Create New Calculated Variable | | > | × | | | | |
| Study Home | | | | | | | | |
| Study Details | ID | Short description | | 4 | LCULAT | FED VAR | RIABLE | |
| Subscription | | | | | | | | |
| Interventions | Queen a Q | | | _ | | | | |
| Modules | Search variables | Functions | | _ | | | | |
| Calculated Variables | ID | Name | Description | | | | | |
| E-Mails | | | | | | | | |
| Participants | HowAreYouFeelingTodayDay1 | + | Returns the sum of the indicated variables. | | | | | |
| Metrics | | - | Returns the subtraction of the indicated variables. | | | | | |
| Researchers | | * | Returns the multiplication of the indicated variable. | | | | | |
| | | ~ - | | | | | | |
| | Calculate Logic | | | | | | | |
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Calculated variables

A Calculated Variable enables you to collect the participant's answers on specific module items and later show your participants feedback based on an equation linked to their previously filled-in items.

Writing the equation

After creating the Calculated Variable item, you have to write the equation for it. You can see the Calculated Variable item instructional video through the following link: https://youtu.be/D7E2H n-PEA?si=29xMVj6YTqKbt 5c

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|-------------------------|--|--|-----------------------|
| Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STU | JDY) > MODULES | |
| < STUDIES | | | |
| Study Home | | | |
| Study Details | Modules | GENERAL | CONTENT ITEMS |
| Subscription | Click here to add modules to interventions | | |
| Interventions | CREATE NEW MODULE | Third Module (duplicate | e) (duplicate) |
| Modules | Search by title Q Sort by | 3 ITEMS | ADD MODULE ITEM |
| Calculated Variables | | Name for numeric | calculation |
| E-Mails | Second Module | feeling Number slider | eelingTodayDay1 🔀 📋 📋 |
| Participants | Second Module (duplicate) This is the second module | 2. How are you feeling | F |
| Metrics | | Number slider | |
| Researchers | DELETE DUPLICATE OPEN | 3. How are you feeling Number slider | Ē ī |
| | First Module | | |
| | First Module This is the first module | | |
| | DELETE DUPLICATE OPEN | | |
| | Third Module | | |

1. On the sidebar, click on - CALCULATED VARIABLES -.

2. Then on the right side, click on the - ADD CALCULATED VARIABLE -.

| Twente Intervention and | | | \$ 1 ? ⊡ |
|-------------------------|--|---|------------------------|
| | STUDIES > STUDENTS WELL-BEING IN TWENTE (M | OCK STUDY) > CALCULATED VARIABLES | |
| < STUDIES | | | _ |
| Study Home C | reate New Calculated Variable | × | |
| Study Details | - ID | Short description | DD CALCULATED VARIABLE |
| Subscription | ModeFeelingToday1 | Mode of Feeling Today Module Item 1 | |
| Interventions | | | |
| Modules | Search variables Q | | |
| Calculated Variables | | Functions | |
| E-Mails | ID | Name Description | |
| Participants | HowAreYouFeelingTodayDay1 | + Returns the sum of the indicated variables. | |
| Metrics | | Returns the subtraction of the indicated variables. | |
| Researchers | | Returns the multiplication of the indicated variable. | |
| L | | | |
| | Calculate Logic | | |
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A new page will appear:

| Twente Intervention and Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STUDY) > CALCULATED VARIABLES | \$ () ⊘ [→ |
|---|---|-------------------------|
| STUDIES Study Home Study Details Subscription Interventions Modules Calculated Variables E-Mails Participants Metrics Researchers | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STUDY) > CALCULATED VARIABLES No calculated variables yet | ADD CALCULATED VARIABLE |
| | | |

3. Give your calculated variable an ID and description.

| Twente Intervention and Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (M | OCK STUDY) > CALCULATED VARIABLES | \$ 1 ⑦ ⊡ |
|--|--|---|------------------------|
| < STUDIES | | | |
| Study Home | Create New Calculated Variable | × | |
| Study Details | ID | Short description | DD CALCULATED VARIABLE |
| Subscription | ModeFeelingToday1 | Mode of Feeling Today Module Item 1 | |
| Interventions | | | ` |
| Modules | Search variables Q | Fundame | |
| Calculated Variables | | | |
| E-Mails | ID | Name Description | |
| Participants | HowAreYouFeelingTodayDay1 | + Returns the sum of the indicated variables. | |
| Metrics | | - Returns the subtraction of the indicated variables. | |
| Researchers | | Returns the multiplication of the indicated variable. | |
| | Calculate Logic | | |
| | | SAVE | |
| | | | |
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4. Drag and drop the ID (i.e., calculation names) and functions to the Calculate Logic field. You can also type it manually if you prefer.

| Twente Intervention and Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (M | MOCK STUDY) > CALCULATED VARIABLES | \$ 1 ⑦ ⊡ |
|--|--|--|------------------------|
| < STUDIES | | | - |
| Study Home | Create New Calculated Variable | | × |
| Study Details | | | DD CALCULATED VARIABLE |
| Subscription | ID ModeFeelingToday1 | Short description Mode of Feeling Today Module Item 1 | |
| Interventions | | | - |
| Modules | Search variables Q | | |
| Calculated Variables | | Functions | |
| E-Mails | D | Name Description | |
| Participants | HowAreYouFeelingTodayDay1 | + Returns the sum of the indicated variables. | |
| Metrics | | - Returns the subtraction of the indicated variables. | |
| Researchers | | * Returns the multiplication of the indicated variable. | |
| | | | _ |
| | Calculate Logic | | |
| | | | |
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Under functions, you will notice a list of formulas. This list can help you make the calculated variables easier.

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5. Click on – SAVE –.

| Twente Intervention and Interaction Machine | | | | \$ 1 ⊘ ⊡ |
|--|---|------------------------------|---|------------------------|
| ~ | STUDIES > STUDENTS WELL-BEING IN TWENTE (M | IOCK STUDY) > CALCULATED VAR | IABLES | |
| < STUDIES | | | | |
| Study Home | Create New Calculated Variable | | × | : |
| Study Details | ID | Short description | | DD CALCULATED VARIABLE |
| Subscription | ModeFeelingToday1 | Mode of Feeling Today Modu | ile Item 1 | |
| Interventions | | | | |
| Modules | Search variables Q | | | |
| Calculated Variables | | Functions | | |
| E-Mails | ID | NUM_PS(N) | Returns the total number of participants for the indicated variable. | |
| Participants | HowAreYouFeelingTodayDay1 | NUM_PS_ANS(N) | Returns the number of participants that responded to the indicated variable. | |
| Metrics | | MODE_ANS(N) | Returns the most frequent responded number over the indicated variable. | |
| Researchers | | COUNT_ANS(VAR,VAL) | Returns the count of occurrences from the responded value of the indicated variable. | |
| | Calculate Logic HowAreYouFeelingTodayDay1MODE_ANS(| | SAVE |] |

The saved Calculated Variable will appear on the page

| Twente Intervention and Interaction Machine | STUDIES > STUDENTS WEL | L-BEING IN TWENTE (MOCK STUDY) > CALCULATE | D VARIABLES | \$ | Û | 0 | €÷ |
|---|---------------------------|--|-------------|-------------|---------|--------|----|
| < STUDIES Study Home Study Details Subscription | Calculated Variabl | es | | ADD CALCULA | ATED VA | RIABLE | |
| Interventions Modules | Name ModeFeelingToday1 | Description | Formula | | | | |
| Calculated Variables E-Mails Participants Metrics Researchers | invuer eening jouay i | Mode of Peering Today Module Ren T | | | | | |

Showing the calculated variable as feedback

Once the participant has answered the items used for the **Calculated Variable**. You can see the **Calculated Variable Feedback** instructional video through the following link: <u>https://youtu.be/CIYIwv8E7yw?si=_fzVk0Uy7Sk99m0I</u>

1. On the sidebar, click on - MODULES -.

| Twente Intervention and | | | | ۵ | | | |
|-------------------------|---------------------|---|------------------------------------|-------------|--------|--------|--|
| Interaction Machine | | -BEING IN TWENTE (MOCK STUDY) > CALCULATE | D VARIABLES | | | | |
| < STUDIES | | | | | | | |
| Study Home | | | | | | | |
| Study Details | Calculated Variable | es | | ADD CALCULA | TED VA | RIABLE | |
| Subscription | | | | | | | |
| Interventions | Name | Description | Formula | | | | |
| Modules | ModeFeelingToday1 | Mode of Feeling Today Module Item 1 | HowAreYouFeelingTodayDay1MODE_ANS(| | ĩ | 1 | |
| Calculated Variables | | | | | | | |
| E-Mails | | | | | | | |
| Participants | | | | | | | |
| Metrics | | | | | | | |
| Researchers | | | | | | | |
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2. Open the module you would like to show the calculated variable.

| Twente Intervention and Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STUDY) > MO | DULES | |
|---|---|---|--------|
| STUDIES Study Home Study Details Subscription Interventions | Modules Click here to add modules to interventions CREATE NEW MODULE | Create New Module | |
| Modules | Search by title Q. Sort by - | Unique name (researcher only) | |
| Calculated Variables E-Mails Participants Metrics Researchers | Third Module Third Module (duplicate) This is the third module DELETE DUPLICATE OPEN | Er Module title Short description | nglish |
| | Second Module Second Module (duplicate) This is the second module | image SELECT IMAGE | |
| | DELETE DUPLICATE OPEN | Question Order Specific Order with Routing | * |
| | First Module First Module This is the first module | Progress bar configuration | |

3. Go to - CONTENT ITEMS-.



4. Click on - ADD MODULE ITEM -.

| Twente Intervention and | | | ¢ 0 🤉 | Ð |
|-------------------------|--|---|------------------------------|---|
| Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STUDY) > MOD | DULES | | |
| < STUDIES | | | | |
| Study Home | Modules | GENERAL | CONTENT ITEMS | |
| Study Details | | Third Madula (dualizat | -) | |
| Subscription | CREATE NEW MODULE | i nira Module (duplicate | e) | |
| Interventions | Search by title Q Sort by - | 3 ITEMS | ADD MODULE ITEM | |
| Modules | | - 1. How are you feeling | Name for numeric calculation | כ |
| Calculated Variables | Fourth Module | Number slider | | |
| E-Mails | FourthModule (duplicate) This is the fourth module | 🖬 2. How are you feeling | 6 🖬 | |
| Participants | | Number slider | | |
| Metrics | | 3. How are you feeling Number slider | Ē | |
| Researchers | Third Module | | | |
| | Third Module (duplicate) This is the third module | | | |
| | DELETE DUPLICATE OPEN | | | |
| | Second Module | | | |
| | Second Module (duplicate) This is the second module | | | |
| | DELETE DUPLICATE OPEN | | | |
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5. Select any item type.

| 1 | | | | * | 1 0 | Ŀ→ |
|-----|-----|---------------------------|----------------------------|------|-----|----|
| 3 | Ple | ease choose a module item | | | × | |
| < | | | | | | |
| St | , | Statement | PREVIEW ROU | TING | | |
| St | • | Video/Audio | | | | |
| Int | d d | Graph | | | | |
| M | - | - Number input | ASTUDENTS WE | | | |
| Са | - | Number slider | 0% | | | |
| E-I | | | Enter your question in the | | | |
| Pa | | | left panel | | | |
| M | | | | | | |
| Re | | | | | | |
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6. Fill in your question/statement and description.

| Statement | | | * 🕈 🔿 × |
|---|-------------------------|--|---------------------|
| St Module Item 99 Statement 51 | • | PREVIEW | ROUTING |
| su statement B I & Dynamic text 2-1 Pe Mi Description Re B I & Dynamic text | English | O% Enter your quest left panel | 5 WE tion in the |
| 7. In the question or description | fie tđ. clio | sk on – DYNAMC TEXT –. | |
| SELECTIMAGE Video | | | |

8. In the question or description field, click on - DYNAMIC TEXT -.

| Module item 99 Statement | PREVIEW | ROUTING |
|---|--|------------------------------|
| atement B I S Dynamic text The most answered value for this research was: | Ish STUDENTS 0% The most answe for this research | S WE ered value n was: |
| scription B I & Cynamic text | | OK |

The following screen will open:

| Statement | | | | |
|--|----------------------------|-----------|----------------|--|
| Module litem 99 Statement | × | | ROU | |
| | Pauliek | | | |
| Statement | Add module item answer | × | ENTS WE | |
| B I & Dynamic text | Select participant details | | ENTO TIEM | |
| The most answered value for this research was: | | × | | |
| | Select a module first | v | | |
| | Select module item | | answered value | |
| | Select module item | ~ | esearch was: | |
| | Select calculated variable | | | |
| Description | | ~ | | |
| D I Ø Dynamic text | | | | |
| | | OK CANCEL | | |
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| Image | | | | |
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9. From the dropdown list, select the calculated variable you want to show.

| 17 Statement | | | | |
|--|----------------------------|-----------|----------------|--|
| | Franklah | | | |
| | Add module item answer | × | | |
| B I & Dynamic text | Select participant details | | ENTS WE | |
| | | ~ | | |
| The most answered value for this research was: | Select a module first | | | |
| | | ~ | | |
| | Select module item | | answered value | |
| | | × | esearch was: | |
| | Select calculated variable | | | |
| B I & Dynamic text | ✓ ModeFeelingTeday1 | <u> </u> | | |
| | Moder celling roday r | | | |
| | | OK CANCEL | | |
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10. Click – OK –.

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| | | | |
| Add module item answer | × | | |
| Select participant details | | ENTS WE | |
| Calant a madula first | ~ | | |
| Select a module linst | ~ | | |
| Select module item | | answered value esearch was: | |
| Select calculated variable | ~ | | |
| ModeFeelingToday1 | ~ | | |
| | OK CANCEL | | |
| | | | |
| | | | |
| | _ | | |
| | Add module item answer Select participant details Select a module first Select module item Select calculated variable ModeFeelingToday1 | Add module item answer × Select participant details Select a module first Select module item Select calculated variable ModeFeelingToday1 CANCEL | Add module item answer × Select participant details Select a module first Select module item Select calculated variable ModeFeelingToday1 |

In your preview screen, **a code will appear**, this code will return a value once the participant has filled in the questions used for the calculated variable.

| Statement | | | | × |
|---|--------|---|---------|---|
| Module item | PREVIE | w | ROUTING | |
| English Statement B I Dynamic text The most answered value for this research was: Description B I Dynamic text [cv-4596] | | ►STUDENTS WE 0% The most answered value for this research was: [cv-4596] Ok | | |
| SELECT IMAGE | | | | |

11. Click on – SAVE-.

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| | 2 A |
|--|-------------------------|
| English | |
| Statement | |
| B I & Dynamic text | |
| The most answered value for this research was: | 0% |
| | |
| | The most answered value |
| | for this research was: |
| Description | [CV-4596] |
| B I S Dynamic text | |
| [cv-4596] | OK |
| mage SELECT IMAGE | |
| D Video | |
| English | |
| Button label | |
| | |
| SAVE | |

You can also enable calculated variables as a timing rule within the intervention, as shown in the timing rules section.

Managing researchers

TIIM allows you to edit your details as the main researcher, add other researchers to your study, and edit their study privileges.

On the sidebar, click on the - RESEARCHERS - page.

| Twente Intervention and | | | 🌣 🖲 🔿 |
|-------------------------|--|--|-------------------------|
| Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STUDY) > N | NODULES | |
| STUDIES | | | |
| Study Home | | | |
| Study Details | Modules | GENERAL | CONTENT ITEMS |
| Subscription | Click here to add modules to interventions | | |
| nterventions | CREATE NEW MODULE | Third Module (duplicate) | |
| Modules | Search hy title 0 Sort hy | 4 ITEMS | ADD MODULE ITEM |
| Calculated Variables | | Name for n | umeric calculation |
| E-Mails | Third Modulo | Number slider | /ouFeelingTodayDay1 📋 📋 |
| Participants | Third Module (duplicate) | | |
| Metrics | This is the third module | Number slider | |
| Researchers | DELETE DUPLICATE OPEN | 3. How are you feeling | 6 1 |
| | Second Module | | |
| | Second Module (duplicate) This is the second module | 99 4. The most answered va Statement | |
| | DELETE DUPLICATE OPEN | | |
| | First Module | | |
| | First Module This is the first module | | |
| | DELETE DUDUCATE ODEN | | |

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| Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STUDY) > RESEARCHERS | | | | |
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| Study Home | Researchers | | | + | |
| Study Details | | | | - | |
| Subscription | S Jane Doe owner | | | | |
| Interventions | i look com | | | | |
| Modules | | | | | |
| Calculated Variables | | | | | |
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| Participants | | | | | |
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Editing your details

1. Click on the name.

| Twente Intervention and Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STUDY) > RESEARCHERS | \$ 0 | 0 | [→ |
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| < STUDIES | | | | |
| Study Home | Researchers | | (+ | |
| Study Details | | | | |
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| Modules | | | | |
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2. Edit the first name and last name.

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| Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENT | E (MOCK STUDY) > RESEARCHERS | |
| < STUDIES | | | |
| Study Home | ← Jane Doe | | |
| Study Details | E-mail | | |
| Subscription | | | |
| Interventions | First Name | Last Name | |
| Modules | Jane | Doe | |
| Calculated Variables | | | |
| E-Mails | | | OF DATE RESEARCHER |
| Participants | | | |
| Metrics | | | |
| Researchers | | | |
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3. Click on - UPDATE RESEARCHER -.

| Twente Intervention and | | | \$ 1 ⊘ ⊡ |
|-------------------------|--|---------------|--------------------|
| Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STUDY) | > RESEARCHERS | |
| < STUDIES | | | |
| Study Home | ← Jane Doe | | |
| Study Details | E-mail | | |
| Subscription | | | |
| Interventions | First Name | Last Name | |
| Modules | Jane | Doe | |
| Calculated Variables | | | |
| E-Mails | | | OF DATE REDERIOTER |
| Participants | | | |
| Metrics | | | |
| Researchers | | | |
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Adding researchers

1. To add other researchers, click on the - + - icon.

| Twente Intervention and | | \$ | | |
|-------------------------|--|------|---|---|
| Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STUDY) > RESEARCHERS | | | |
| < STUDIES | | | _ | _ |
| Study Home | Researchers | | + | |
| Study Details | | C | | |
| Subscription | A Jane Doe owner | | | |
| Interventions | | | - | - |
| Modules | | | | |
| Calculated Variables | | | | |
| E-Mails | | | | |
| Participants | | | | |
| Metrics | | | | |
| Researchers | | | | |
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2. Enter the email of the researcher you would like to add.

| Twente Intervention and | | \$ Û | 0 | Ð |
|-------------------------|--|---------|---|---|
| Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STUDY) > RESEARCHERS | | | |
| < STUDIES | | | | |
| Study Home | ← Add researcher to study | | | |
| Study Details | | | | |
| Subscription | E-mail | | |] |
| Interventions | | | | |
| Modules | CHECK EMAIL | | | |
| Calculated Variables | | | | |
| E-Mails | | | | |
| Participants | | | | |
| Metrics | | | | |
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3. Click – CHECK EMAIL –.

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| Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STUDY) > RESEARCHERS | | | |
| < STUDIES | | | | |
| Study Home | Add researcher to study | | | |
| Study Details | Email | | | |
| Subscription | | | | |
| Interventions | | | | |
| Modules | CHECK EMAIL | | | |
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4. Edit the first name and last name of the researcher (optional).

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5. You can edit the Researcher's privileges to the sidebar pages: study details, interventions, modules, researchers, participants, and metrics.

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6. Click on - UPDATE RESEARCHER -.

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7. To add more researchers, follow steps 1 - 6.

Managing participants

Within **TIIM**, you can **Manage the Participants** of your study by enabling them to subscribe, sending them an e-mail, and assigning them to a specific intervention. You can see the **Manage the Participants** video through the following link: <u>https://youtu.be/Y9HLulF2K0E?si=z0snSbLZWKVgImA9</u>

Editing Subscription page

The subscription page is the first page participants will see when subscribing to your study. You need to create a subscription page in order for participants to access your study.

General

1. On the sidebar, click on the - SUBSCRIPTION - page

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2. Edit the subscription title page (visible to participants).

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| E-Mails | 04-06-2023 19:07 | Ē | 11-01-2029 23:40 | | | |
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3. Edit the start and end of the subscription.

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| Researchers | These voucher and QR-codes are enrolment codes. Share the participants, such that they can enrol for your study. | se codes with | | | | |
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5. In the Enrollment Codes card, you can copy the voucher code or download the QR code image and share it with prospective participants of your study.

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| 🖺 🛛 Before sha | aring it with your participants, alv | vays preview your study in | Study Home. | |

Creating pages

1. Click the – PAGES – tab.

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In the Pages tab you can create informative pages such as introductions, ethical disclosure statements or special instructions. The informative pages will be automatically shown to the participant after they have subscribed to your study.

2. Click on - CREATE THE FIRST PAGE -.

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| Interventions | | There are no pages yet | | | | |
| Modules | | CREATE THE FIRST PAGE | | | | |
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| Modules | Untitled page | | | | | |
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| E-Mails | Informative page title | | | | Inglish | |
| Participants | Welcome to the Students Well-Being in Twente | | | | | |
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4. If you are creating a welcome page, unticked the box next to – THIS IS THANK YOU PAGE –. If it is a thank you page, leave ticked.

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| Metrics | | | | | | |
| Researchers | This is thank you page | | | | | |
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5. Fill in the body text.

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| Participants | Welcome to the Students Well-Being in Twente | | | | | |
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| Researchers | This is thank you page | | | | | |
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| | BIS | | | | | 1 |
| | This study aims to investigate the student's w | vell-being in the Twente area. | | - | | - |
| | If you have questions or concerns, please con | ntact the researcher. | | | 9 | |
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6. Click on - SAVE PAGE -.

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| Study Home | Welcome to the Students Well-Being in Twente | | | | |
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| E-Mails | If you have questions or concerns, please contact the researcher. | | | 9 | |
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- 7. To create more informative pages just click on the + icon.
 - You must have at least one page for your enrollment code to work. A red exclamation point will show next to the Subscription tab and next to the pages tab in case you do not have a page. Once you have created the page and saved it, please refresh the page, so the exclamation point disappears.

Screening questions

You can also create initial screening questions for your subscribed participants which you can use to assign them to the appropriate intervention.

1. To create initial screening questions, click the - QUESTIONS - tab.

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2. Click on – ADD MODULE ITEM–.

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| E-Mails | | There are no screening questions in this module | |
| Participants | | Please add an item by clicking the add module item button | L. |
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3. Select the type of questions you would like to include.



4. Fill in the details.

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| < St SL In M Ci E- Pi R R | Yes/No Module item Yes/No English B I Ø Dynamic text Are you a student within the Twente (The Netherlands) area? Description B I Ø Dynamic text | PREVIE | W STUDENTS WE 0% Are you a student within the Twente (The Netherlands) area? Your answer Yes No | ROUTING | | × | |
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5. Click on – SAVE –.

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| Study Details | | | | |
| Subscription | Student well being in Twente | | | |
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Editing email page

The emails page will allow you to draft two different template emails for your participants either (1) when the study starts or (2) if they are rejected from the study.

1. On the sidebar, click on the – E-MAILS – page.

| Twente Intervention and | | | ¢ 0 | | |
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| Study Details | | 7 | | | |
| Subscription | Subscribe to the Students We | II-Being in Twente | | | |
| Interventions | | | | | |
| Modules | 1 (75)4 | | | | |
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2. Fill in the study starts details.

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The study starts e-mail will be sent to your participants once you have assigned them to an intervention.

3. Fill in the participant is rejected e-mail details.

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| Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STUDY) > EMAILS | | |
| < STUDIES | Participant is rejected | | |
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| Participants | | | |
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4. Click on – SAVE –.

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| Interaction Machine | STUDIES > STUDENTS WELL-BEING IN TWENTE (MOCK STUDY) > EMAILS | | |
| < STUDIES | Participant is rejected | | |
| Study Home | | | |
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| Modules | | E | - |
| Calculated Variables | F-mail hody | Engli | sn |
| E-Mails | B I S | | |
| Participants | Hi, | | |
| Metrics | Thank you for your interest! | | |
| Researchers | We national that you encodified you are not a student within the Twente area. As the study of Studente Well Being In Twente is only | for | |
| | students within the Twente area, you are unfortunately not eligible for the study. | y 101 | |
| | If you are interested in knowing more about the study results, please contact me at: ut.researcher@utwente.nl (not a real email). | | |
| | Best, | | |
| | Researcher | | |
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Both template emails are sent by the BMS Lab email account, yet the participant will see it as if the e-mail had been sent by the researcher who created the study. This will allow the participant to reply to the researcher.

Editing participants page

The Participant's page enables you to check the participant's details and assign or reject a participant. The participant's page displays a list of subscribed and unsubscribed participants. Participants can unsubscribe from your study through the TIIM app and can only do so after you have assigned them to an intervention.

1. On the sidebar, click on the - PARTICIPANTS - page.

Once participants subscribed to your study, the Participants page will show like this:

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| Study Home | Participants | | | |
| Study Details | Unassigned participants | | | |
| Subscription | | | | |
| Interventions | 9495. test user22 | | 1 | |
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2. Click on the unassigned participants.

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| Study Home Study Details Subscription Interventions Modules | earticipant details test user22 No Action | SCREENING | SEND NOTIFICATION |
| Calculated Variables E-Mails Participants | Reject Participant Assign to First intervention | | |
| Metrics Researchers | | | SAVE |

The following page showing the PARTICIPANT DETAILS Tab, will open:

3. Assign the participant to a particular Intervention or reject the prospective participant.

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| Modules | No Action | | |
| Calculated Variables | O Reject Participant | | |
| E-Mails Participants | Assign to First intervention | | |
| Metrics | | | |
| Researchers | | | SAVE |
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4. When you assign the participant to an intervention, choose to let the participant start when the intervention starts or on a customer date and time.



5. Click on - SCREENING -.

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| Study Details | | | | | | |
| Subscription | ← test user22 | | | | | |
| Interventions | | | | | | |
| Modules | O No Action | Let this participant s | tart when intervention starts | | | |
| Calculated Variables | C Reject Participant | Let this participant s | tart on a custom date | | | |
| E-Mails | Assign to First intervention | | | | | |
| Participants | | | | | | |
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6. The SCREENING tab will open showing the participant's answers to the questions when they were subscribing to your study.

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| Study Details | | | 7 | | |
| Subscription | ← test user22 | | | | |
| Interventions | Participant ID | 9495 | $\overline{}$ | | |
| Calculated Variables | Language | English | | | |
| E-Mails | Screening questions | | | | |
| Participants | Are you a student within the Twente (The Netherlan | ~ | | | |
| Metrics | | | | | |
| Researchers | | | | | |
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7. Click on – SEND NOTIFICATION –.

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| Modules | Participant ID | 9495 | | | |
| Calculated Variables | Language | English | | | |
| E-Mails | Screening questions | | | | |
| Participants | Are you a student within the Twente (The Nether | lan 🗸 | | | |
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8. In the Send Notification tab, send specific push notifications to your participant's smartphone. The push notification can work as a reminder and call to action.

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The participant needs to have the TIIM application installed on their smartphone, logged in on their account, and the push notifications enabled in the TIIM application settings.

Instructing first-time participants

For your participants to be able to fill in your study you will need to instruct them on how to download and use the TIIM app. You can share the **Participants** instructional video through the following links: English: <u>https://youtu.be/LgUXV08iUK4?si=Zgc4m08Z7rXZRnY6</u> Dutch: <u>https://youtu.be/VEpPzLWGrLs?si=Zir0F7MH0Botw0MZ</u>

Alternatively, you can share the following text:

1. Downloading TIIM for Android

- I. Go to the play store for Android.
- II. Type in the search bar "TIIM".
- III. Select the TIIM app.
- IV. When the download menu opens, select DOWNLOAD –.
- V. After downloading has finished you can open the app.
- OR

Downloading TIIM or iOS

- I. Go to the App store for iOS. Type in the search bar "TIIM". Select on the TIIM app.
- II. Select DOWNLOAD -.
- III. Accept the download with your apple ID.
- IV. After downloading has finished you can open the app.

The app is free, so don't worry about the mention for payment.

2. Creating an Account

- I. The app will ask to login. Select CREATE AN ACCOUNT -.
- II. Fill in your details.
- III. Then, press CREATE ACCOUNT -.
- IV. To log in just fill in your email address and password.

3. Subscribing to the study

- I. To subscribe to a study, select the QR code icon on the right side of your screen.
- II. You can type the voucher code.
- III. Then, press SUBMIT –.

OR

- I. Scan the QR code that you have received from the researcher. Both methods will send you to a subscription page.
- II. Select CONTINUE –.
- III. Here you can also confirm if you would like to subscribe with the mentioned email.
- IV. Press CONTINUE -.
- V. The Researcher will contact you when you can start the study.

4. Editing Settings

- I. In the app on the left select SETTINGS –.
- II. Allow for push, email notifications, and data collection from Healthkit.
- III. If your would like to, you can select that you would like to join other TIIM studies in the future. You can always change the settings.
- IV. To unsubscribe from a study, select UNSUBSCRIBE next to the study.
- V. If you want to delete your data, please contact the researcher or ask the researcher for your User ID and then contact the BMS Lab dashboard support.
- VI. Press-SAVE-.

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When you start using the app, you will see a pop up asking if you would like to join other TIIM studies. This will allow researchers in the future to invite you to join their studies. You can always decline the invitations and change this setting in options.

Data Metrics and Export

TIIM's dashboard enables you to view, download, and import the **Data Metrics** of participants to Excel and SPSS. The **Data Metrics** consists of your participant's responses. You can see the **Data Metrics** instructional video through the following link: <u>https://youtu.be/n75HW-6sOh4?si= 0EAbWuryZHOXJxP</u>

Viewing & downloading your data metrics based on filters

1. On the sidebar, click on the - METRICS - page.

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| E-Mails | | | | | | | | | |
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2. Select – INTERVENTION – and filter data by selecting – MODULE – and/or – PARTICIPANT –. You can tick the checkmark if you would like to see how long it took the participants to answer.

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| Calculated Variables | Language | English | | | | | | | | |
| E-Mails | | Available: Dec 4, 2024, 12:00 | | | | | | | | |
| Participants | test for download | Received: Dec 4, 2024, 12:00 | | | | | | | | |
| Metrics | Select as many options as you would like. | | | | | | | | | |
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For an ESM module, a special ESM tag will be included, as well as the possibility to view the answers filtered per iteration.

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3. By clicking on the sensor data, you can view the values and graphs for it.



4. Select – DOWNLOAD – to download the PDF file containing filtered data.

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Exporting your data metrics

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 Click on – DOWNLOAD – next to Module Answers of the intervention of your choice. This will download the answers of all participants for all modules for that intervention. On summary report, you can download a CSV file containing information about when the modules, reminders and notifications were sent.

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3. A screen will open showing you in which format you would like to download the data.

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4. Select the format of your preference and the CSV file will be downloaded. Below you can see how the different format look like in Excel as an example.

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| Well being questionnaire | ESM-37986-302- | 1 | | | | | | | | | | | | | | | | |
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| o bia bia | ESMI-704539 | (-3) | 2024/09/18/09:50:26.387 | | | | | | | | | | | | | | | |
| 2 123 | ESMI-764546 | [-3] | 2024/09/18 09:50:24.958 | | | | | | | | | | | | | | | |
| 3 | 25111 704546 | 1.01 | 2024 00 20 00 10 00 10 12 10 12 10 | | | | | | | | | | | | | | | |
| 4 Well being questionnaire | ESM-37986-307- | 1 | | | | | | | | | | | | | | | | |
| 5 bla bla | ESMI-764539 | [0] | 2024/09/20 12:20:17.609 | | | | | | | | | | | | | | | |
| 6 Question | ESMI-764628 | 0 | 2024/09/20 12:20:15.003 | | | | | | | | | | | | | | | |
| 7 123 | ESMI-764546 | [0] | 2024/09/20 12:20:19.058 | | | | | | | | | | | | | | | |
| 8 | | | | | | | | | | | | | | | | | | |
| 9 Well being questionnaire | ESM-37986-308- | 1 | | | | | | | | | | | | | | | | |
| o bla bla | ESMI-764539 | [0] | 2024/09/23 11:04:08.721 | | | | | | | | | | | | | | | |
| question | ESMI-764628 | 0 | 2024/09/25 11:04:05.960 | | | | | | | | | | | | | | | |
| 2 123 | ESIMI-764546 | [1] | 2024/09/25 11:04:09.292 | | | | | | | | | | | | | | | |

Participants in columns (most frequently required for data analysis tools) :

Participants in rows (traditional TIIM output file):

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Importing for analysis

Excel

- 1. Open Excel.
- 2. In the upper row, click on DATA -.
- 3. On the left, click on GET & TRANSFORM DATA –. Select from text/CSV.
- 4. Choose your file. Click on IMPORT -.
- 5. To import the data in Excel within divided columns, Select DELIMITED as a tab.
- 6. Click on LOAD –.
- 7. Your data will open in a new Excel workbook.

SPSS

- 1. Open SPSS. Go to FILE -.
- 2. Select –OPEN in the dropdown menu.
- 3. Select DATA in the dropdown submenu.

A new window will open:

4. Select and open your CSV data.

Text Import Wizard will open:

- 5. In the first step, you don't change any of the settings and click on NEXT -.
- 6. In the second step, set the variables arranged to DELIMITED –.
- 7. Set the question Are variable names included at the top of your file to Yes –.
- 8. Click on NEXT -.
- 9. In the third step, set the first cases of data begin on which line number to -2 –.
- 10. Click on NEXT –.
- 11. In the fourth step, set the delimiter to a comma.
- 12. Click on NEXT -.
- 13. In the fifth and sixth step, you don't change any of the settings.
- 14. After the sixth step, click on FINISH -.
- 15. Your data will open in a new SPSS spreadsheet.

Glossary

General

Button label: In the TIIM application you can customize the text to be displayed in the buttons.

- **Calculated Variables**: The calculated variables function is a feature within TIIM that enables you to create numeric calculation variables involving mathematical operators, functions, or conditional statements. These variables are linked to a specific numerical module item. For the linked module item, you can later provide participants with feedback based on the participants' answers.
- **CSV**: A Comma Separated Values (CSV) file is a plain text file that contains a list of data. These files are often used for exchanging data between different applications. For example, databases and contact managers often support CSV files.
- **Dashboard**: The dashboard is the interface of the TIIM application, where you will access, create and visualize content related to the collection of data for your study.
- **Dynamic text**: Dynamic text refers to text that changes based on contextual or user-specific information. This can be achieved through programming or scripting that allow for the automatic updating of text based on changing conditions or user input.
- Enrolment code: (also voucher code): A unique series of numbers and characters that will grant a participant access to the study. It can also be graphically presented as a QR code.
- ESM module: timing rule which allows for modules to repeat based on predetermined schedule.
- Heart rate: In surveys that use wearable devices or sensors, respondents may be asked to wear a device that collects data on their heart rate continuously or at regular intervals.
- Intervention: Interventions are collections of Modules and organize different group conditions (e.g. experimental and control) in a study.
- Item: Items are the specific questions and prompts that your participants will respond to.
- **Module (item)**: Modules are self-contained collections of items, which can be combined with other modules to form a larger system.
- Progress bar: Progress bars are typically used to indicate the completion of a process or the time remaining until completion.
- Randomization per module/category: Randomization of question items in a survey refers to the process of randomly ordering the questions within a section or subsection of the survey. This technique is used to reduce the potential for order effects, where the order of questions may influence the responses given. For example, if a survey asks about customer satisfaction with various aspects of a product or service, randomly ordering the questions about those aspects can reduce the likelihood that respondents will be influenced by the order in which the questions are presented. This can help to obtain more accurate and unbiased responses.
- **Routing**: Routing refers to the process of directing respondents to specific questions or sections of a questionnaire based on their previous responses. Routing questions are used to customize the survey

experience for each respondent and ensure that they only see questions that are relevant to them. Routing within a module is only possible if you have 3 numerical type items or more with the exception of the last item. Examples of Routing include, if a respondent indicates that they have never used a particular product or service, they may be skipped over questions that are only relevant to users of that product or service. Similarly, if a respondent indicates that they are not interested in a particular topic, they may be directed to a different section of the survey that is more relevant to their interests.

- Sensor configuration: The TIIM application can collect three types of physiological data from wearable devices: heart rate, steps and sleep.
- Sleep: Objective measures of sleep, such as wearable sleep trackers use sensors to detect movement and other physiological data during sleep. These measures can provide more detailed information on sleep patterns, such as the duration and quality of each sleep stage.
- **Specific order with routing**: Items will be presented in the order the researcher has defined in the module either through drag and drop order or, if applicable, routing.
- Steps: Activity trackers may also be used to collect objective data on step counts, which can be more accurate than self-reported data. Steps measurement surveys can provide valuable information on physical activity levels and can be used to track changes in activity levels over time.
- **Specific order with routing**: Items will be presented in the order the researcher has defined in the module either through drag and drop order or, if applicable, routing.
- Steps: Activity trackers may also be used to collect objective data on step counts, which can be more accurate than self-reported data. Steps measurement surveys can provide valuable information on physical activity levels and can be used to track changes inactivity levels over time.
- **Study**: Studies are the research projects.
- **TIIM**: Twente Intervention and Interaction Machine. TIIM is a software provided and maintained by the BMS Lab that provides researchers with the capability to study participants long-term or repeatedly (e.g.: cohort or longitudinal studies) and to present them with stimuli or measurement items (e.g.: questionnaires).
- **Unique name**: Unique names are assigned by the researchers to facilitate their identification and are not visible by participants.

Items list

Audio recording: Participants are requested to record a private audio by pressing the red circle with the microphone symbol.

Camera image: Participants are requested to take a photo or upload a photo from their phone gallery.

- **Dropdown**: Participants are requested to select a string value on a dropdown list. The minimum, maximum and step size values can be customized, and the choice-order can be randomized.
- **Emotion quadrant**: Participants are requested to drag a pointer to a desired location within a quadrant. Values are calculated based on coordinate. Image is customizable (min 1500px and max 2000px).
- **Graph**: the TIIM application can create graphs that will enable the participants to see their data over time. The y-axis will show the module item's score while the x-axis will show its completion date. The participant clicks a button to proceed to the next item.

- Likert Scale: Participants are requested to indicate their level of agreement or disagreement with a statement, using a scale (e.g., agree, neutral, disagree). Labels are customizable.
- Multi-line input: Participants are requested to type in an answer in a multiple-lines field. The maximum limit of characters is determined by the researcher.
- Multiple choice: Participants are requested to select one or more options from a assortment of options.
- **Network**: Participants are requested to add a label identifying the item, indicate the warmth of the item and then place it on one of the lines within the circle image as a response.
- **Number choice**: Participants are requested to select a numerical value on a scale. The minimum, maximum and step size values can be customized.
- Number dropdown: Participants are requested to select a numerical value from a dropdown list. The minimum, maximum and step size values can be customized.
- Number input: in this type of item, participants type in a numerical value.
- Number slider: in a number slider, the respondent can select a value by sliding a pointer on a left right axis. The minimum, maximum and step size values can be customized.
- **Orbits**: in an orbit matrix, participants are requested to select an item and place it in a location orbiting around one center.
- **Single-line input**: Participants are requested to type in an answer in a single-line field. The maximum limit of characters is determined by the researcher.
- **Specialized Drag and Drop**: Participants are requested to drag and drop an item (e.g., word) into a category as a response.
- **Statement**: a Statement is a piece of text that the researcher wants the respondent to read. The participant clicks a button to proceed to the next item.
- Step size: step size refers to the distance between two values.
- Video/Audio: videos or audio clips can be added to the survey. The participant clicks a button to proceed to the next item.

Appendix A: Dashboard side bar

Brief description of the services contained on each tab of the sidebar.

- **Study home**: This is the landing page of your study, where you will see the enrolment codes and the cards for each intervention.
- Study details: Here you may rename your study, modify the dates, add languages or activate collection of biometric data.
- Subscription: This page has three tabs. In the general tab, you will the see subscription details. In the pages tab you can create a message for participants who joined your study. In the questions tab you can create a screening survey to filter and select participants.
- Interventions: This page will allow you to visualize your interventions or create new.
- Modules: This page will allow you to visualize your modules or create new ones.
- **Calculated variables**: On this page, you will be able to see or create calculated variables (numeric calculations).
- **E-Mails**: Here you will be able to compose standardized emails announcing the start of a study or clarifying participants their rejection.
- **Participants**: This page has three tabs. In the participant details tab, you can reject or assign the participant to an intervention. The screening tab will display the screening results for each participant. In the send notification tab, you can send targeted messages to a participant.
- Metrics: The metrics tab will let you preview and download the results of your survey. You can also download the timing records for each participant. In the download tab you will be able to export your test results in CSV format, for increased compatibility with different data analysis software.
- **Researchers**: In the researchers tab you can update your details or add new collaborating researchers to your study.

Appendix B: Timing rules

Open module timing rules

- **On a relative time after intervention started:** Opens the module after a certain time has passed since the Participant has started the Intervention. Here you only need to specify the time settings for when you want the module to begin after the intervention has started.
- **On a relative time after a module has finished:** Releases a module after a certain amount of time has passed AFTER the Participant has completed a previous module. Therefore, 2 actions need to be taken. Firstly, you need to define the time settings for when the module should start; And choose which module you wish to use as a "trigger" module.
- When a module hasn't been finished: Opens the participant's unfinished module. Choose which module you wish to use as a "trigger" module 'Based on an answer in a module item' opens a module based on the answer of a previous module. Here you need to select the module, the module Item, the condition, and the specific answer that you want to use as a trigger.
- **On a fixed date:** Opens a module on a specified date and time.

Based on a calculated variable: Opens a module based on a calculated variable that you have set up.

Close module timing rules

Based on an answer in a module item: Closes a module based on the answer of a previous module. You need to select the module, the module Item, the condition, and the specific answer that you want to use as a trigger.

On a fixed date: Closes a module on a specified date and time.

Based on a relative time after a module has started: Closes the module after a specific amount of time has passed AFTER the Participant has started the module.

ESM timing rules

- **Repeat module on a fixed date**: The modules will be sent to participants on the chosen date or dates without taking into account when they actually begin the study. This is suitable if your modules do not follow a specific order of if participants can join the study at any time.
- **Repeat module based on a relative time after participant started intervention**: The modules will be sent to participants depending on when the participant is enrolled in the intervention.

Appendix C: Function descriptions

| + | Returns the sum of the indicated variables. | | | | | | |
|---------------------|--|--|--|--|--|--|--|
| - | Returns the subtraction of the indicated variables. | | | | | | |
| * | Returns the multiplication of the indicated variable. | | | | | | |
| Λ | Returns the exponential value of the indicated variable or numerical input. | | | | | | |
| / | Returns the division of the indicated variables. | | | | | | |
| SUM_ANS(N) | Returns the addition of the answered numerical responses from the indicated parameter(variable). | | | | | | |
| NUM_ANS(N) | Returns the total number of participants for the indicated variable. | | | | | | |
| MODE-ANS(N) | Returns the most frequent responded number over the indicated variable. | | | | | | |
| COUNT_ANS(VAR, VAL) | Return the count of occurrences from the responded value of the indicated variable. | | | | | | |