

WakeApp Guide

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October 31, 2016

This guide should help to explain how to use the WakeApp for use in research. This document will be split into three parts. The first will focus on how to use the WakeApp for questionnaire data. The second part will focus on using the WakeApp for psychological tests. A third section will provide methods to merge CSV files after the data has been collected.

1 WakeApp Questionnaires

Questionnaires are grouped into sessions which are created for each participant. So that one doesn't need to repeatedly specify questionnaires, a template can be created that can be used for all participants. Creation of templates and sessions are done on the device which will be used to answer the questionnaire. Once the questionnaire are filled in, the data will then be sent to a server. Each project is to be given a unique URL (?) where the data will be accessible.

1.1 Creating a template

1. Go to <http://wakeappng.stefanfisk.com> (this is our URL so will need to change). Alternatively, open the WakeApp Formulär App on your device.
2. Click on *Sessions*
3. Click on *New Session*
4. Mark *Is template*
5. Click on *Add form* and add a questionnaire by clicking on the green plus icon. Repeat this for every questionnaire that you want to add. You do not need to add subject ID, Code, Date or Time.
6. If the questionnaires are in the wrong order, you can move them by dragging and dropping in the order you want.
7. Click on *Save*.
8. You will now find your questionnaires under *Sessions* then *Templates*.

1.2 Creating a session

1. Go to <http://wakeappng.stefanfisk.com>. Alternatively, open the WakeApp Formulär App on your device.
2. Click on *Sessions*
3. Select the session under *Templates* that is required
4. Click on *Copy*. *Is template* should not be crossed
5. Fill in *Subject ID* with the participant identifier. *Code* can be used for further identifiers (such as condition). Again, you do not need to enter Date or Time
6. Click on *Save*.
7. You will now find the session under *Sessions* then *Runnable*.

1.3 Starting a session

1. Go to <http://wakeappng.stefanfisk.com>. Alternatively, open the WakeApp Formulär App on your device.
2. Click on *Sessions*
3. Click *Runnable* and select the session with required subject ID
4. Click on *Run*.
5. Click on each questionnaire to be completed

1.4 Saving a completed session

1. When all questionnaires in a session are completed, the button *Mark as Complete* will change from red to green.
2. Click on *Mark as Complete*
3. The session will then move from *Runnable* to *Unsaved Logs* in the main menu.
4. Go back to the main menu and select *Unsaved Logs*
5. Click on *Select All*. All sessions will be marked
6. Click on the green button *Save Selected Logs* in the top right corner
7. The session will then move to *Saved Logs* in the main menu.
8. If you do not do this, the session will not be sent to the server and will only be accessible on the device where the session was run. Data that has not been sent to the server can be found under *Unsaved Logs*. Data that has been sent to the server can be found under *Saved Logs*.

1.5 Downloading the data

1. Data is to be downloaded on a computer internet browser. It is recommended not to use Safari.
2. Go to <http://wakeappng.stefanfisk.com>
3. The data is found under *Saved Logs*
4. If you are downloading a single data file then right click on the blue button next to the file. A CSV file will then download.
5. If you wish to download several files simultaneously, select the files you want by clicking in the circles and then click on the blue button *Download Selected Logs* in the top right corner. This will download a .zip file containing the selected data in separate CSV files.
6. If you want to download everything click on the blue button *Download All Logs* in the top right corner. This will download a .zip file containing all the data in separate CSV files.

2 WakeApp tests

Similar to the Questionnaire app, the session must be created on the device that the participant will use. Though the templates can be created on a computer. For each occasion that a participant will do a test, a different session should be created. Each with it's own url.

2.1 Creating a session

1. Go to <http://wakeapp.stefanfisk.com/admin/>
2. Fill in the participant ID
3. Choose which tests the participant will do. Tests that are enabled are white, while tests that are disabled are grey. To enable (or disable) a test, click on the test and toggle the *enable* button.
4. The settings for each test can be altered by clicking on a test, and toggling/selecting options from the dropdown lists
5. Once everything is set up as wished, click on *Generate*. This will provide a unique URL address.
6. This link can be copied sent to the device that the participant will use to complete the test.

2.2 Starting a session

1. If the session URL is opened on a smartphone, it can likely be downloaded to the homescreen. On a iPhone this is done by opening the URL in the Safari app, and clicking on the share button and clicking *Add to Home Screen*. You will then be given the option to rename the shortcut. It is highly recommended to do this, especially when the participant will be doing the same tests multiple times. On a android phone TBC...
2. With the app now downloaded, the participant can easily start the tests from their homescreen. When clicking on the icon, participants are given the option to practice (*Övning*) or start the tests (*Starta testerna*).
3. *Övning* will allow participants to practice each test before doing all the tests for real.
4. *Starta testerna* will run all pre-specified tests continuously, giving short instructions before each test.
5. After all tests are complete, the participant will be taken back to the main menu where a new *skicka in data* button will appear. Participants should click this button to send the data to the server.

2.3 Downloading the data

1. All data that is sent to the server will arrive at a specific email address. Which is??
2. The data in these emails can be easily downloaded

3 Merging CSV files

Once the data collection is complete, researchers may wish to combine the CSV file from each session to create a master data spreadsheet. This can be achieved using a script written for R (There is an alternative MATLAB script if needed). The script is written so that data from each separate questionnaire should be dealt with separately.

1. Place all data from the questionnaire of interest in a single folder.
2. Open the R merging script: *WakeApp merging script.Rmd*. You will need to add the location of the folder to the script. Additionally, you can change the name of the new master CSV file, containing the data of all the individual CSV data.
3. Once the above has been adjusted, the user only has to click *Run* and then *Run All*
4. The new CSV file will be saved at the working directory. If you do not know your working directory, this can be found out by running: *getwd()*.

4 Questions that Ben has

- Where does the data for the WA tests go? I know it goes to an email. What is the email address? And is this different for different projects? Also is there a database that the data can be accessed from instead? Something like the URL for the questionnaires. Because otherwise I imagine that it's going to be a pain to open every email and download the csv separately.
- Are there different URLs for different projects? How does one know what that is? For example, for the slesi project, we were using the URL <http://wakeappng.stefanfisk.com> which still holds all our ipad questionnaire data. I guess that other people using the app have a unique address for their project?
- Where should the merging script be kept? I can upload it to Github if it's useful?