

# Acceptance Test Document

CITS3200 Group R

## Objectives

This document is designed to describe the conditions under which we can consider the project completed. It cannot be fully comprehensive because we anticipate the final product will contain features beyond those described here, but it describes the essential features for the sleep diary to be considered complete. Due to this the document describes the minimum final product to be delivered, with the expectation that future documentation will supersede it.

## Test Summary

The system is a sleep diary app for iOS and Android devices. The app takes user input about their sleep patterns and uploads it to a SQL database where it is converted to an excel spreadsheet and sent to their clinician upon request. Further details are available in the General Scope of Work document.

## Testing Strategy

For the system to be considered functional there are several subsystems that must be functional and correctly linked:

- iOS app
- Android App
- Server database
- Webservice

The individual subsystems will be tested based on function, performance and user interactability. Function can be tested through interaction with the subsystems and attempting many types of inputs. Performance will be tested by calculating how quickly the subsystem can perform tasks and how many users it can handle. User interactability will need to be tested by external people for ease of use and verified by the client.

## Subsystems to be tested

### iOS/Android App Tests

\*iOS and Android users have been considered the same because they require the same features.

#### Log In Users

Type of user trying to log in:

Input	Output expected
New user with keycode	Logs in permanently
New user without keycode	Logs in permanently, generates keycode for table and asks to share data with researchers
Previous user	Logs in automatically

#### Receive user input correctly

Input cases to test for:

Input	Output expected
Input is valid	Save to local database and send to server
Input is invalid	Request user re-enters data
Not all info is filled in	Request user re-enters data

#### Differentiate users

Must be able to service multiple simultaneous users.

#### Send user data to the server

Type of data sent:

Input	Output expected
Data is valid	Save to users table
Data is invalid	Log error

#### Save user data locally

Data is saved to a table to be used for visualization of data.

### Visually display user data

Cases of data to show

Input	Output expected
Previously entered data	Display data
No data has been entered	Give a message suggesting inputting data

### Server database

#### Receive user data

Type of data received:

Input	Output expected
Data is valid	Save to users table
Data is invalid	Log error
'Comment' section attempts a SQL injection attack	Sanitise input

#### Store user data in a SQL table

Type of data:

Input	Output expected
Same user tries to input twice in a day	Save most recent data
User not found in table	Create new table and save data

#### Convert SQL data into excel spreadsheet

Type of data:

Input	Output expected
Valid data of table	Excel file version of table
Invalid data of table	Error message and log error

#### Verify and send authorised data to clinicians/researchers

Type of user attempting:

Input	Output expected
Researcher	Data sent as excel file
Clinician	Choice of 'simple' or 'full' data sent as an excel file
Unauthorized user	Access denied

### **Webservice [I really don't know what this does]**

The webservice links the apps to the server database. To do this it must:

- Form a connection between mobile device and server