GBUS - Functional Test Plan Overview

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1. Purpose

The purpose of this document is to describe the test cases used to verify each functional requirement as specified in the Software Requirements Specification.

2. Scope

The attached spreadsheet contains all the functional test cases for the GBUS app. It assigns each test case a unique identifier, lists the functional requirement(s) the test case can be traced to, describes the steps required to perform the test, and the expected result of each test. Each test case also has a description of what the test is trying to achieve.

3. Testing Process

The application will be tested manually. In order to test the calendar, the tester will need to open the calendar app and then follow the steps for whichever test they are testing. The tester will then check that the result is as expected by the attached spreadsheet and then log the result in a similar spreadsheet with an extra column for actual results for later review.

In order to test the synchronization, the tester will need to start up the server and connect it to a database. Afterwards, they will need to follow the steps for testing synchronization. Then the tester will check the result it as expected and log the results in a spreadsheet similar to the attached one except with an extra columns for actual results for later review.

Additionally, in addition to the functional tests, the *Jest* framework will be used for automating unit tests. Furthermore, some functional tests will be automated. All the results from these tests will have their console output logged for future review and use.

4. Abbreviations

Abbreviation	Actual Word
AS	Auto Scheduler
VD	**Valid Deadline** - Has a deadline that occurs after its start work time. Time between deadline and start work time is at least the total work time. Min work is less than max work time.
VS	**Valid Schedule** - Has events between the deadline's start work time and deadline. Schedule's events must leave enough time to fulfil deadline's total work time.

5. References

Facebook. *Jest.*
https://jestjs.io/

GBUS. *Software Requirements Specification.*
SRS.pdf

GBUS. *Functional Test Plan Cases.*
FunctionalTestTable.xlsx