**SenzRoom Test Plan**

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Revision Sheet

Document History

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| Ver. | Date | Contributors | Description or Change |
| 1 | 10/22/2018 | Kyele Haynes | Wrote the first draft |
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Introduction

Purpose

The objective of testing for the SenzRoom application is to eliminate any and all bugs before the application’s first version is released to the Android Play Store. This test plan will describe the approach methods used while testing:

* Test Strategy: The guidelines set while testing, considering our objectives of the project, our assumptions and the start / end dates of each implementation.
* Execution Strategy: How tests will be performed and the various steps taken to locate any bugs/defects along with the process to implement fixes for the found issues.

Overview of the Project

The SenzRoom application is a productivity tool for use with meeting rooms, board rooms, study rooms and labs in schools and office buildings (now on referred to as resources). It is to be implemented in the consumers environment with the with the paired smart device equipped with thermal, light and temp sensors in each room. The functionality of the application is as follows:

* Displays what resources are available for use in real time
* Displays other important info about each resource such as temperature and light data.
* Provides past data history in a very readable format for help with efficient and cost-effective future planning.

Audience

* The users (management, admin staff, students, guests) of the resources available in the respective office building or school
* Admin staff of office buildings or schools such as the IT team.

Test Strategy

Objectives

The objective of the tests is to bring The SenzRoom Application up to the standards outlined in the proposal.

The test will include executing many scenarios in different environments to determine major and minor defects and to rank these defects in order of severity. This list will be gone through during the defect/bug fixing stage starting from the most severe issues.

Once testing is completed a final, production ready application will emerge. Also, a list of scenarios in different environments will also be complete and available for future tests and implementations.

Assumptions

* Data similar to that of production environments will be readily available and functional before the start of the testing phase
* Many different environments such as different Android versions as well as devices and emulators will be readily available and functional prior to the testing phase
* Bugs and defects will be tracked in an organized manner
* Bugs and defects will be reported in detail, making use of screenshots
* All of the information gathered will always be available to all team members
* Possible fixes/solutions will be discussed amongst the entire team prior to implementation
* The application will be versioned each time a fix is implemented and documented with the original version always being available.

Execution Strategy

Preliminary Steps

* Assuring test data is readily available
  + Test data must include randomized values similar to those that can be found in the production environment and must make logical sense
* Assuring test environments are powered up, each with the same version of the application and with the same way of calculating test data to eliminate any unwanted factor
* Preparedness to report any bugs (minor or major) as soon as they are discovered to prevent the loss of information

Testing Cycles

* The first test cycle to be performed executes all the determined scenarios on each of the environments and aims to identify critical and application breaking defects causing the application to perform very unexpectedly.
  + Any issues found in the first cycle must be fixed prior to performing the second test cycle
* The second test cycle to be performed will run through the version of the application following the fixes performed in the first test cycle. It will identify remaining high and medium level issues, including performance issues.
* The third test cycle is not necessary right away but will be more specific and will help locate remaining small bugs and areas for quality improvement.

Management of Defects

* Throughout all the testing cycles any and all identified defects will be logged and reported in detail.
* It is expected that additional test cycles will take place but may not need to be performed on all environments. Each test cycle to be documented for easy replication.
* Testers must be including all relevant information regarding defects and must have this information linked to the version of the application the defect occurred during, including the severity and the status of the incident as they continue. They must retest and close the incident once the defect is repaired. The tester may use diagrams and other means to make the data easily readable by other testers and project managers.