Note Sharing App

Test Plan

Version 1.0

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Revision History

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| --- | --- | --- | --- |
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Test Plan

# Introduction

The purpose of the Test Plan is to gather all of the information necessary to plan and control the test effort for a given iteration. It describes the approach to testing the software, and is the top-level plan generated and used by managers to direct the test effort.

# Evaluation Mission and Test Motivation

Evaluation guarantees that all parts of the NoteSharingApp are working correctly. The software will be developed one part at a time and we can be sure that all parts are working with testing.

# Target Test Items

Classes (functionality) and System Integrity (connectivity of the mobile application and server) will be tested.

# Outline of Planned Tests

Unit testing will be made.

# Test Approach

## Testing Techniques and Types

### Unit testing of classes

|  |  |
| --- | --- |
| Technique Objective: | Check the functionality of the classes are correct |
| Technique: | Writing JUnit test with required input and output, then running it while developing |
| Required Tools: | JUnit, Android Studio and Development PCs are mandatory. |
| Success Criteria: | Classes and their functions must pass JUnit tests with 100% score. |

### System integrity testing

|  |  |
| --- | --- |
| Technique Objective: | Find out if all parts are able communicate with each other |
| Technique: | Writing a JUnit test that will try to transfer a constant data between parts and check if it’s the same, then running it |
| Required Tools: | JUnit, Development PCs, Server, Android Mobile Phone, Android Studio |
| Success Criteria: | The sent data must reach the target part with 0% corruption. |

### 

# Environmental Needs

## Base System Hardware

| **System Resources** | | |
| --- | --- | --- |
| **Resource** | **Quantity** | **Name and Type** |
| Server | 1 | TBD |
| Android Mobile Phone | TBD | TBD |
| Development PCs | TBD | TBD |

## 

## Base Software Elements in the Test Environment

The following base software elements are required in the test environment for this *Test Plan*.

| **Software Element Name** | **Version** | **Type and Other Notes** |
| --- | --- | --- |
| Android (on mobile phones) | TBD | Operating System |
| Windows (on Development PCs) | TBD | Operating System |
| Java Virtual Machine | TBD | Virtual Machine |
| Android Studio | TBD | IDE |
| JUnit | TBD | Testing software |