**Test plan for**

**<<E-Card>>**

*ChangeLog*

|  |  |  |  |
| --- | --- | --- | --- |
| **Version** | **Change Date** | **By** | **Description** |
| 1.0 | 2021/02/23 | Tianlei Wang | Initial creation |
|  |  |  |  |

1 Introduction 2

1.1 Scope 2

1.1.1 In-Scope 2

1.1.2 Out-of-Scope 2

1.2 Quality Objective 2

1.3 Roles and Responsibilities 2

2 Test Methodology 3

2.1 Overview 3

2.2 Test Levels 3

2.5 Test Completeness 4

3 Test Deliverables 4

4 Resource & Environment Needs 4

4.1 Testing Tools 4

4.2 Test Environment 5

5 Terms/Acronyms 5

# Introduction

This test plan follows Agile methodology, which means it will be updated appropriately for each sprint. Our test strategy can be broken down into two components: functionality and usability. All logic layer classes need an appropriate test case before a push and successfully passes the test. In summary, functionality tests will be executed before sprint due to ensuring the project's behaviour, and the usability test will require users to give feedback

## Scope

### In-Scope

*- Login functinality*

*- Signup functinality*

*- Profile functinality*

*- Login UI usability*

*- Signup UI usability*

*-Major bugs*

Overall, features are done in sprint 2 will be fully tested with newly added fetures in sprint 3.

### Out-of-Scope

*-Performance*

*-Stress*

## Quality Objective

* Ensure the AUT conforms to functional and non-functional requirements
* Ensure the AUT meets the quality specifications defined by the client
* Ensure the AUT follows layered architecture
* Bugs/issues are identified and major bugs fixed before release

## Roles and Responsibilities

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **Net ID** | **GitHub username** | **Role** |
| Tianlei Wang | wangt316 | hocky0414 | Test manager  Information seeker/provider |
| Connor Hryhoruk | hryhoru3 | h-connor | UI design |
| Abir Sakib | sakiba | AbirAahammed | Database Management  Configuration Manager |
| Connor Gehman | gehmanc | ConnorGehman | Database Management  Meeting recorder |
| Chenbo Ma | mac3456 | CBM6 | UI design |

# Test Methodology

## Overview

Our test methodology follows Agile methodology to fit our developing model. The number of tests case will increase for each sprint. Our testing involves four levels; unit test, integration test, acceptance test, and usability test to ensure our project's functionality and usability.

## Test Levels

**Unit test:** perform on every class in data and logic layers

**Integration test:** perform on every handler for logic and data layers

**Acceptance test:** perform on UI layers

**Usability test:** involved real customer in testing, changing according to feedbacks

## Test Completeness

* All logic and data layer need to to have 100% test coverage
* All Manual & Automated Test cases executed
* All Major bugs are fixed or will be fixed in next release
* Feedbacks are taken into consideration for the next sprint
* Project documents are updated before release

# Test Deliverables

|  |
| --- |
| * Test Plan * Test Cases * Bug Reports in GitHub issues |

# Resource & Environment Needs

## Testing Tools

* JUnit
* Espresso
* GitHub issues to track Bugs
* Travis-CI

## Test Environment

1. Windows 8 and above
2. Android version 23+
3. Java version 8

# Terms/Acronyms

Make a mention of any terms or acronyms used in the project

| TERM/ACRONYM | DEFINITION |
| --- | --- |
| Major bugs | Bugs that causes crashes, dangerous behaviour, etc.. |
| AUT | Application Under Test |