



SOFTWARE REQUIREMENTS SPECIFICATION

for

PROJECT (CSE 250)

Version 1.0 approved

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26 July 2019

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Revision History

Name	Date	Reason for changes	Version
Masum Ahmed	26.07.19		1.0

1 Introduction

1.1 Purpose

The purpose of this Software Requirement Specification (SRS) document is to gather information about the game Fibonacci version 1.0.

Investment & Loan is an android based Application that is based on the idea of doing Invest and taking loans with best policy (whatever you want) among existing Banks, NGOs, Insurances.

This Software requirement specification document provides a complete description of Investment & Loan.

1.2 Document Conventions

This document is written in Maven Pro font. Normal texts are sized 13 black while headings are 20 bolded dark blue against a light cornflower blue background. Subheadings are sized 16 dark blue against a light cornflower blue background. Second subheadings are sized 14 bolded dark blue against a light cornflower blue background.

1.3 Intended Audience and Reading Suggestions

Expected users of this game are people of all ages and backgrounds.

1.4 Product Scope

The main purpose of this game is entertainment based while serving an educational value.

Investment & Loan is an android based Application that is based on the idea of doing Invest and taking loans with best policy (whatever you want) among existing Banks, NGOs, Insurances.

1.5 References

[IEEE] The applicable IEEE Std 830-1993, IEEE Standard for Software Requirements Specifications, published in "IEEE Standard Collection" 2001 edition

2 Overall Description

This section includes the perspective of our product and the system environment it requires. It specifies the QFD (Quality Function Deployment) of our game and also the User Story of it.

2.1 Product Perspective

Investment & Loan is a new, self-contained product. It follows the Apple game of the year 'PolicyBazar' game concept a little bit. But it's not a advanced version of the 'PolicyBazar' or something like that. We give our website link in the game page. Please feel free to interrupt us any time and contribute your ideas. This will make our app much more lively and interesting.

2.2 Product Functions

Investment & Loan is a Android based app. It's a very user friendly interface. It can be played by people of any age. Following are a list of some of the functionalities that the app will provide to the users:

1. Tutorial Page (Appear first after installation. You can skip this)
2. Home Page
3. Compare Page
4. Suggestion Page
5. Login Page
6. Registration Page
7. Investment Page
8. LOAN PAGE

2.3 User Classes and Characteristics

Investment & Loan is a Android platform based app. It's interface is very friendly. Users of all ages can easily use it. It has no need to have any educational level or security permission or technical expert. Besides Android is number one operating platform for mobile phone. It's tremendous users of all ages. This Investment & Loan is all for them.

2.4 Operating Environment

Investment & Loan version 1.0 runs only in Android Environment. Further version may run on iOS Environment.

2.5 Design and Implementation Constraints

The following are a general list of constraints that would delimit the developer's options while building the Fibonacci:

1. Must have Android platform
2. Must have Android Supported Mobile Phone
3. Must have to know English (We use Single Language)
4. Must have to know how to add two positive numbers
5. Sometimes Game may end with randomly entered fibonacci numbers

2.6 User Documentation

List of user documentation components are given following:

1. On Entry page, there will be a tutorial to understand what is Investment & Loan numbers
2. On Entry page, there will be another option named 'App Doc'. In where users can easily know about the next release date, version, developers' identity, organization's name or license key etc. We will use general documentation format.

2.7 Assumptions and Dependencies

List of assumed factors (as opposed to known facts) that could affect the requirements stated in the SRS are given following:

1. It has software dependency. It will only run on Android platform
2. Device should have support for JVM (Java Virtual Machine) of Oracle
3. You have to install this game from Google Play Store. Or you can use shareit to share this game from anyone who will install it

2.8 Scenario Based Model

This Model depicts how the user interacts with the system and the specific sequence of activities that occur as the software is used.

2.8.1 Use Case Scenario

The following table summarizes the use cases of the system. We have created the use cases based on the Android view of the game. The swimlane table connects UI with background programming which are the two important views of a App SRS.

3 External Interface Requirements

3.1 User Interfaces

After the first startup after installation, the user will see a GUI containing options for joining with Facebook or Google account or to skip this step.

At startup in further times, the user will find a GUI with the 'Tutorial' page that will contain tutorial describing what fibonacci numbers are and how they are generated.

In the next page six options - 'Login', 'Main Page where all policy will be shown', 'Dashboard', 'Registration', 'Contact Us', 'Pay', 'Take' will show up. The buttons associated with the options will take the user to different windows accordingly.

3.2 Hardware Interfaces

No additional hardware will be needed to play this game.

3.3 Software Interfaces

Android Operating System

3.4 Communications Interfaces

1. HTTP protocol for accessing to web server by remote users.
2. TCP/IP protocol for data communication over network.

4 System Features

4.1 System Features of version 1.0

This part will describe all features of the game including user cases in section wise.

4.1.1 Description and Priority

Investment & Loan is very user friendly.

4.1.2 Stimulus/Response Sequences

Some use cases' descriptions are given here below:

4.1.3 Functional Requirements

REQ-1: Investment & Loan must be played on Android OS.

REQ-2: App must update the current position of the players finger to allow for real time movements.

REQ-3: After each new high score the user will be prompted to enter his/her name to save the points. A textbox will be given to enter the name and save it.

REQ-4: App must help user to guess the next move or if any new move is possible.

REQ-5: App has to be implemented in Java.

REQ-6: App must feature music and sound effects. Not crucial to the game.

REQ-7: App must display encouraging messages to help the player.

4.2 System Feature of version 2.0 (and so on)

Feature 2 will be given next release.

5 Other Nonfunctional Requirements

5.1 Performance Requirements

The app should be able to be played on any android run device. The game functionality will be simplistic and smooth but pleasing .The game design will not be too complex but not too simple either so that it doesn't make the system slow down. It will have an enjoyable gameplay on any device regardless of hardware.

5.2 Safety Requirements

The app won't damage or compromise any other apps in the users device. Because of the simplistic design the game should not cause any overheating problem in the players device ,hence shouldn't cause any internal damage.

5.3 Security Requirements

The app won't ask for any personal information or identification .So having these informations compromised shouldn't be an issue. Users can simply download and start playing the game. Anyone having the device can play the game.

5.4 Software Quality Attributes

5.4.1 Reliability

Investment & Loan will respond to the players command in a timely manner. It will respond immediately as the player swipe the screen. And the player will see the effect within milliseconds. Some simple classes and methods will be added to achieve this purpose.

5.4.2 Availability

Investment & Loan will be available offline. So it can be played at all time .Improvements can be added during updates.

5.4.3 Maintainability

The app will be maintainable. Which will be facilitated by adding documentation while writing the codes.

6 Other Requirements

There are no other requirements.

Appendix A: Glossary

Terms	Definitions
GUI	Graphical User Interface
SRS	Software Requirement Specifications
User	Anyone who uses the app
Player	Anyone who plays the game
UI	User Interface

Appendix B: Analysis Models

To be added later.

Appendix C: To Be Determined List

To be added later.