

Software Requirements Specification

for

Android Library

### Version 1.0

# Prepared by:

Debotosh Sarkar-1405212

Dwijraj Bhattacharyya-1405214

Harshit Kumar Gupta-1405216

Group-2

27 October 2017

Table of Contents

1. Introduction 1

### Purpose 1

### Document Conventions 1

### Intended Audience and Reading Suggestions 1

### Product Scope 1

### References 1

1. Overall Description 1

### Product Perspective 1

### Product Functions 2

### User Classes and Characteristics 2

### Operating Environment 2

### Design and Implementation Constraints 2

### User Documentation 2

### Assumptions and Dependencies 2

1. External Interface Requirements 3

### User Interfaces 3

### Hardware Interfaces 3

### Software Interfaces 3

### Communications Interfaces 3

1. System Features 3

### System Feature 1 3

### System Feature 2 (and so on) 4

1. Other Nonfunctional Requirements 4

### Performance Requirements 4

### Safety Requirements 4

### Security Requirements 4

### Software Quality Attributes 5

### Business Rules 5

1. Other Requirements 5

# Introduction

## Purpose

The purpose of this document is to present a detailed description of the Android library development. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli. This document is intended for android developers so that they can use this library for android application development.

## Document Conventions

The proposed SRS( software Requirement Specification) document is based on IEEE SRS standards, covering all aspects required by developers and users to understand application interface and its capabilities.

## Intended Audience and Reading Suggestions

This document is intended for android developers, users, testers, and documentation writers. The rest of this SRS contains and how it is organised.

## Product Scope

Software is an android library it provides various api that android developers can use to improve their android application’s UI/UX.

## References

Google is used for learning and gaining knowledge for skills required to developing this android application. The IEEE standard template is retrieved from their official site.

# Overall Description

## Product Perspective

This product is an android library that android developers can use while developing android applications so that they are freed from the task of writing too many boiler plate codes for implementing various animations.

## Product Functions

This library will have various functions that the developers would call which would help them improvise their UI/UX . The library functions contains boiler plate codes that one needs to write for performing various animations and the code is tested so that the developers need not worry about writing and testing them and developers could also customise.

## User Classes and Characteristics

The application is developed for all android developers who wish to improve their UI/UX without writing too many boiler plate codes.

## Operating Environment

The software will work on android studio, it is available for all android developers that develop android applications with targeted API 17.

## Design and Implementation Constraints

This software may not work on new android OS without updating it.

## User Documentation

A complete Readme would be available on completion of the project so that developers can refer to it while using it.

# External Interface Requirements

## User Interfaces

Since this is an android library it doesn’t have it’s own UI .This is use to improve UI of android

applications.

## Software Interfaces

The connections between this product and other specific software components are: Bintray database for uploading into gradle and maven repositories, android operating system, android studio.

## Communications Interfaces

This project will communicate with other android applications via various functions calls available

in it.

# System Features

This template illustrates organising the functional requirements for the product by system features, the major services provided by the product.

Requirement 1: Android version having API level 17 and above.

Requirement 2:Android OS 4.4 and above.

Requirement3: Works on android tablets , phones.

# Other Nonfunctional Requirements

## Performance Requirements

This will work on IDE that can download libraries in JCentre and Maven.

## Safety Requirements

There are no safety requirement required .

## Security Requirements

No security requirements developers can directly download the libraries from JCenter and Maven it is an open source project and anyone can contribute to it via pull requests on github.

# Other Requirements

The library is uploaded on bintray and can be used as JCenter and Maven repository.