# Software Requirements Specification (SRS)

# My Intent Demo App

## 1. Introduction

### 1.1 Purpose

The purpose of this document is to define the functional and non-functional requirements for the "My Intent Demo" Android application. It illustrates the usage of Explicit and Implicit Intents using a simple, real-world example.

### 1.2 Scope

The application will contain a main activity that navigates:

- To a Profile screen using Explicit Intent

- To a web browser and phone dialer using Implicit Intents


This is intended for use by students, learners, or professionals to understand Android intent handling.

## 2. Overall Description

### 2.1 Product Perspective

This is a stand-alone Android mobile application, not requiring internet connectivity except when opening a website via a browser.

### 2.2 Product Functions

- Display three buttons on the home screen:

  - Go to Profile (explicit intent)

  - Open Website (implicit intent to browser)

  - Call Support (implicit intent to dialer)

- On clicking each button, perform the corresponding navigation or action.

### 2.3 User Classes and Characteristics

- Primary Users: Android developers, engineering students, mobile app testers.

- Characteristics: Basic familiarity with Android and Java/Kotlin programming.

### 2.4 Operating Environment

- Android OS 6.0 (API level 23) or higher

- Java 8 or Kotlin-compatible runtime

- Android Studio 4.0+ for development

## 3. Functional Requirements

**Functional Requirements Table**

FR1: The app shall display three buttons on the MainActivity

FR2: Clicking 'Go to Profile' shall launch ProfileActivity using Explicit Intent

FR3: Clicking 'Open Website' shall launch a browser with URL 'https://www.google.com' using Implicit Intent

FR4: Clicking 'Call Support' shall open the dialer with pre-filled number '+91 9876543210' using Implicit Intent

FR5: ProfileActivity shall display a welcome message "Welcome to Profile Page"

## 4. Non-Functional Requirements

**Non-Functional Requirements Table**

NFR1: The application should launch within 2 seconds

NFR2: The UI should follow basic material design principles

NFR3: The application should work offline for intents that do not require network

NFR4: Buttons should be responsive with at least 48dp padding

NFR5: Code must follow standard Android development practices

## 5. System Models

### 5.1 Use Case Diagram (Summary)

- Actor: User

- Use Cases:

  - Navigate to Profile

  - Open Website

  - Call Support

## 6. Assumptions and Dependencies

- The user has an internet connection to open the browser intent.

- The device supports ACTION_DIAL intent.

- The target activities are declared in AndroidManifest.xml.

## 7. Appendix

### 7.1 Glossary

- Explicit Intent: Intent specifying the target component class.

- Implicit Intent: Intent requesting an action without specifying the component.

- Activity: A screen in Android.