# Contents

1. Introduction
   1. Purpose
   2. Scope
2. Overall Description
   1. Assumptions and dependencies
3. System Features and Requirements
   1. System Requirements
   2. Functional Requirements

# 1.Introduction

This is an android application that allows users to find the smart phones which suites their needs. The application uses web scraping technology to scrap shopping sites and find the phones matching the user’s needs (specifications). When it comes to smart phone shopping, every one may not be sure what they want or they should know everything related to technology. The app is mainly targeted for naïve smart phone users, who have minute understanding about processors, storage and memory specifications. The app also provides optional feature to search additional specifications if the user wants to choose the smart phones on the basis of memory and internal storage.

# 1.1Purpose

The main purpose of the application is to simplify the process of choosing/buying smart phones. It helps the naïve smart phone users to pick / select smart phones based mainly on the price range and brand. If the user is interested in buying the smart phone / want to know more details about the phone, users will be redirected to buying page of the website, where it is listed. The application also shows in which website the phone is available.

# 1.2Scope

The application can simplify the tedious tasks of searching the phones based on their prices, and specifications, especially for naïve users. Since it uses web scraping technology, we can use the same methodology to scrape data/information from other websites by making some changes in the system.

**2.Overall Description**

The app fetches necessary information from the user (price range and required brand). The user also has the option to choose the RAM and internal storage. With the given information, the app scrapes data from the E-Commerce websites and fetches the phone details to the user. The app compares the price of the same phone in multiple websites and arranges and sorts the list in ascending order of the prices. The user can browse through the results and also visit the buying page of the selected phone, if they intent to check the further details or to purchase it.

**2.1 Assumptions and dependencies**

Internet Connectivity- stable internet connectivity is a required for the proper working of the application, as we are mainly working with E-commerce websites.

**3.System Features and Requirements**

**3.1 System Requirements**

* Wi-Fi/Mobile Internet Connectivity
* Android Marshmallow and above

**3.2 Functional Requirements**

Login and Registration – the application will provide the users to register themselves in the app via email ID. In the login module, we first check if the user is registered or not, if yes the user can login to the app, otherwise it prompts the user to register to the app. The user information is stored in the database.

Web Scraping – here we fetch the required phones based on the information provided by the user. This is the main module of the system. The JSoup and Picasso library are used here.