

***Software Engineering***  
***Software Requirements Specification***  
***(SRS) Document***

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## 1. Introduction

### 1.1 Purpose of this document

The purpose of this document is to provide a detailed description of the requirements necessary to complete the android mobile application TradeUp. This document will contain a general description of the project and details on features the application will contain and the requirements needed for said features.

### 1.2 Scope of this document

The team building this application consists of Jamier Ashley with assistance from Andrea Edarwds. The time span of this project is undetermined but expected to last from December 2020 to at least May 2021. Time spent on this project will include about 12 hours a week excluding weekends.

### 1.3 Overview

The TradeUp mobile application is intended to allow users a place to barter different things of their choosing. They will be able to upload pictures of their items and be able to search through a directory of items other users have uploaded as well. The user will be able to select an item of their choosing from the directory that they like and will provide an item of their own to offer as a trade. The user the trade was offered to will then decide if the trade is something they are interested in.

## 2. General Descriptions

### 2.1 Product Functions

The TradeUp application will allow any user with access to the application a platform to trade items amongst other users.

### 2.2 User Characteristics

The typical user for this application should have experience with online shopping and social media applications. The user should also ideally be 15+ years of age and those under 18 should trade with parental supervision and consent. A basic knowledge of mobile apps will be needed to use this application efficiently.

### 2.3 User Problem Statement

There exist many applications that allow for online shopping for second hand items but there aren't any mainstream applications for trading. Most of the time trading on the applications happens but they have to take place off platform and then personal information has to be given out. This application would essentially remove the middleman as everyone on this app is specifically looking for trades.

### 2.5 User Objectives

To access this application's directory you must be a user with an account. When logging into the application the user will be prompted to upload 2 photos of potential trade items. The application will allow for the user to then search through the directory, pick an item they want to trade for and then select one of their items to offer for the trade. This will then go to the other user where they can accept or decline the trade.

### 2.6 General Constraints

The application must run on the Android mobile operating system. A user's Android device must provide network connectivity (both hardware and software) in order for the application to fully function.

## 3. Functional requirements

1. This application will contain a directory of items with images organized in alphabetical order.
2. This application contains a profile page for the user where they can upload and delete items of their choosing.
3. This application will not allow users to view the directory and offer trades if they do not have an account and they do not have at least two items listed to trade on their profile.
4. The application will contain a messaging section to navigate to after a trade has been accepted.