Software Requirements Specification

for

Dream Catcher

Version 1.0

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2/15/2022

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Revision History

Name	Date	Reason For Changes	Version

1. Introduction

1.1 Purpose
The purpose of this SRS is to outline the full requirements for the software product Dream Catcher. This document will cover all the requirements of this application in its entirety.

1.2 Document Conventions

Term	Definition
User	A person that has downloaded the application and intends on using it.
App	An abbreviation for application.
Task	Something the user wants to complete. The task may have information provided by the user that describes itself and gives it context.
List	A collection of tasks.
Friend	A user that the current user wants to keep in contact with.

1.3 Intended Audience and Reading Suggestions
This document is intended for developers, professors, and TA. It is intended that the reader starts in the introduction section of the document to get an understanding of the project and the terminology used, then reference the table of contents for other sections of interest.

1.4 Product Scope
Dream Catcher is an android application that will allow the user to create tasks that the user would like to accomplish. Tasks can be given information by the user. The application will allow the user to add tasks to lists giving them the freedom to organize tasks in a way that makes sense to them. List between multiple users will be available allowing for collaboration and encouragement. The user will also be able to track certain statistics that will inform and encourage the user of their progress completing tasks.

1.5 References

2. Overall Description

2.1 Product Perspective

The application this document outlines is a new standalone application.

2.2 Product Functions

- Allow the user to create tasks
- Allow the user to organize tasks in lists
- Allow the user to add other users as friends
- Allow the user to share a list with friends
- Allow the user to see statistics of their tasks

2.3 User Classes and Characteristics

The general user should have a general understanding of their smartphone and how to use its gestures. The user should have at least a middle school education or the ability to read and write.
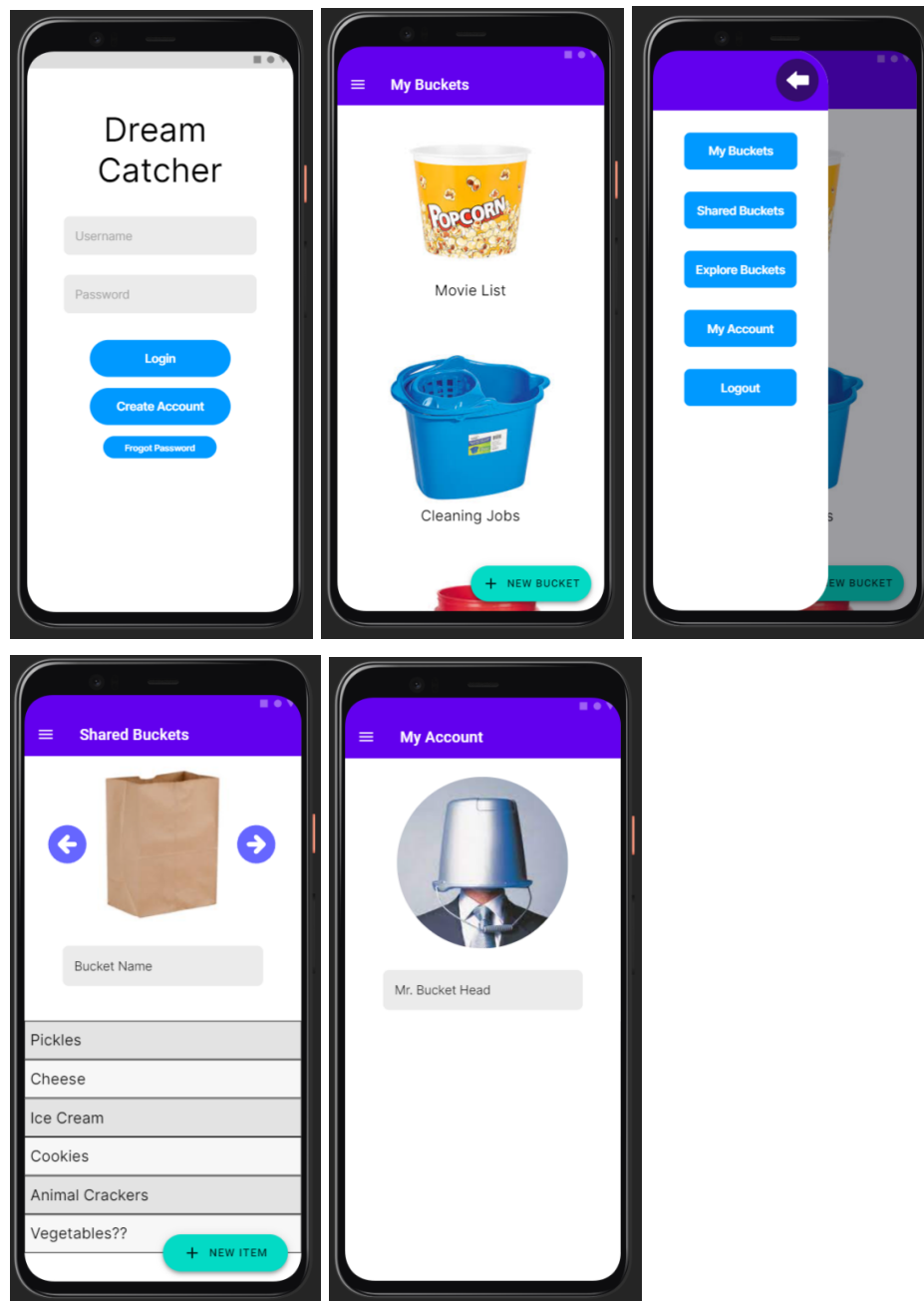
2.4 Operating Environment

Android API 23

2.5 Design and Implementation Constraints

2.6 User Documentation

2.7 Assumptions and Dependencies

3.   External Interface Requirements

3.1   User Interfaces

3.2   Hardware Interfaces

3.3   Software Interfaces

3.4   Communications Interfaces

4. System Features

REQ-1: The system shall allow the user to create tasks.
REQ-2: The system shall allow the user to organize the tasks into lists.
REQ-3: The system shall allow the user to login to the system with their own credentials.
REQ-4: The system shall allow the user to make lists with friends.
REQ-5: The system shall allow the user to become friends with other users.
REQ-6: The system shall allow the user to change list privacy settings.
REQ-7: The system shall allow the user to sort the tasks based on completion status.
REQ-8: The system shall allow the user to delete tasks.
REQ-9: The system shall allow the user to see their lists without an internet connection.
REQ-10: The system shall allow the user to attach photos to their tasks.
REQ-11: The system shall allow the user to view the number of completed tasks.
REQ-12: The system shall allow the user to set a profile picture.
REQ-13: The system shall allow the user to add a deadline to a task.
REQ-14: The system shall allow the user to see the number of uncompleted tasks.
REQ-15: The system shall allow the user to share their list to other users.

5. Other Nonfunctional Requirements

5.1 Performance Requirements
5.2 Safety Requirements
5.3 Security Requirements
5.4 Software Quality Requirements
5.5 Business Rules

- The system shall be capable of handling a typical workload of 1,000 concurrent users 99% of the time
- The system response time must not exceed 5 seconds under the typical workload 99% of the time.
- 4 out of 5 users shall be able to use all features of the system after a 2 minute tutorial.
- The system shall require that users have a password that does not contain their username.
- The system shall require that users have a password with a length of at least 8 characters.
- The system shall require that users have a password that contains at least one special character.
- The system shall use a database to store user data
- The system shall use a database management system to organize user data
- The system shall be compatible with the latest Android operating system
- The system shall request access to the user's camera

6. Other Requirements

Appendix A: Glossary

Appendix B: Analysis Models

Appendix C: To Be Determined List