

CSE 3044-SPRING 2019

TERM-PROJECT HOMEWORK#3

Inventory Management App

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Software Requirements Specification

1. Introduction

The introduction of the Software Requirements Specification (SRS) provides an overview of the entire SRS with purpose, scope, definitions, acronyms, abbreviations, references and overview of the SRS. The aim of this document is to gather and analyze and give an in-depth insight of the complete “Inventory management app”

Purpose:

The purpose of this SRS document is to provide a detailed overview of our software product, its parameters and goals. This document describes the use case diagram and its functional and non-functional requirements of Inventory Management.

Scope:

The goal of this project is to give users (product managers) an easy way to store and manage their products. Application should be easy to use.

Definitions, Acronyms, and Abbreviations:

Android: An operating system for mobile devices.

Java: A programming language will be used for programming on Android.

SQL: Is used to communicate with a database.

MySQL: Is an open source relational database management system.

AWS: A cloud computing system.

References:

<https://www.android.com/>

<https://aws.amazon.com/>

<https://www.java.com/>

<https://www.mysql.com/>

2. General Constraints

Smartphone

- This application will be available for smartphones
- Operating system of the smartphone has to be Android

Android 5.1 and up

- Version of the smartphone operating system has to be Android 5.1 (SDK 22) or greater.

Internet Connection

- The user has to be connected to internet to connect with backend-api.
- The API needs internet to connect to database.
- All data stored by authorized users will be available when connected to internet.
- Internet will also be used for data recovery.
- Database updates will be made over internet.
- Users will register over internet

3. Assumptions and Dependencies

- Having application working correctly is depends on the version of the Android.
- This application will make storing and retrieving data much easier for users.
- Backend is required to have this application work.
- Internet connection is the other dependency.

4. Specific Requirements

Functional Requirements:

- System shall demand username, e-mail, password and information of the user
- System shall keep information of the user on the backend
- User shall signup with username and password
- User shall delete the owned product info

- User shall add a new product with:
 - Product code
 - Product name
 - Product place
 - Product unit
 - Product description (optional)

Non-Functional Requirements:

Reliability:

- The stored products should never be corrupted over time.
- User should be able to retrieve data whenever wanted.

Performance:

- Backend api calls should be done in at most 5 seconds

Availability:

- Users have to be able to access their account 24/7.
- App should be available all around the world

Security:

- Personal information cannot be shared with other users. Unauthorized users can not see others stored personal or product informations.
- Database access should not be public.

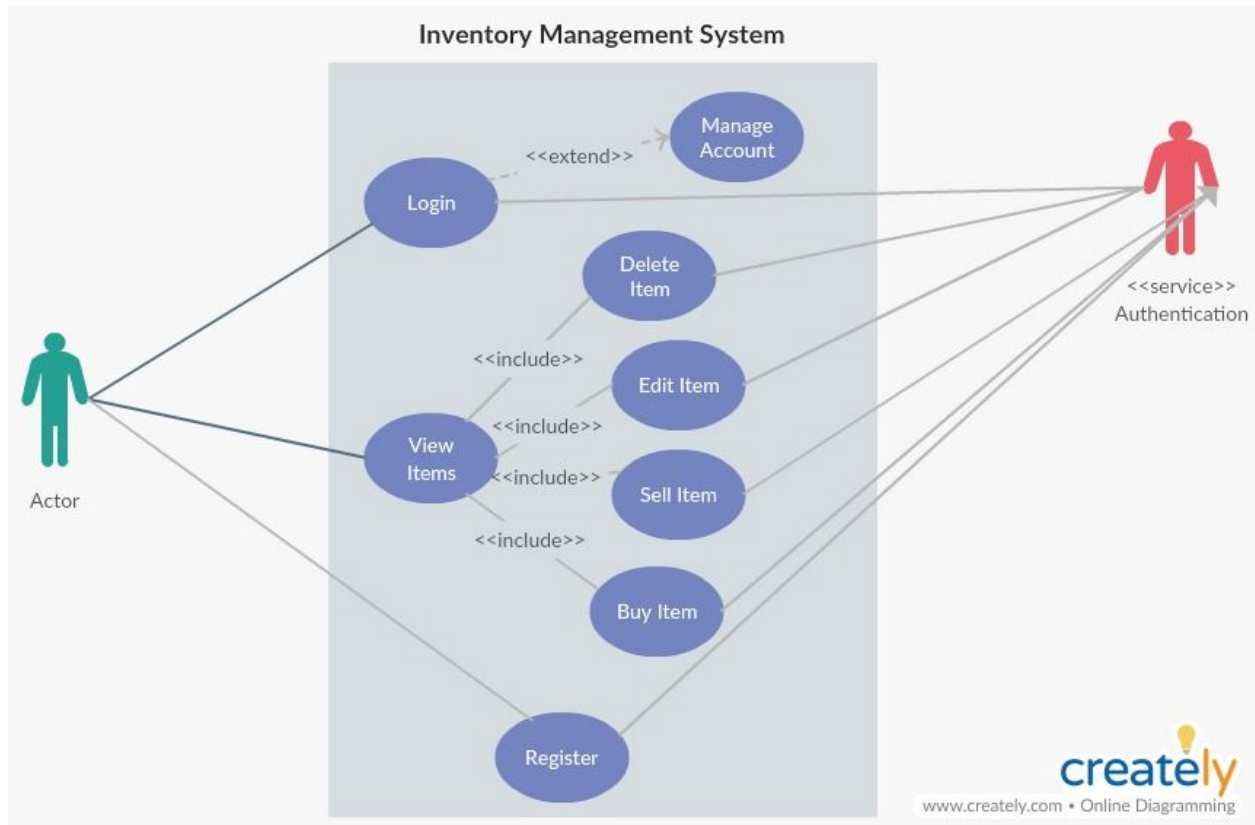
Usability:

- The user interface should be user-friendly – easy to use

Accessibility:

- This application can be used by all Android users with android 5.1 or greater

Use Case Diagram:



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It was a team effort everyone gave their mind and soul on every step of this document.