**Software Requirements**

**Specification**

**for**

**Clover App (Mobile PoS)**

**Version 1.0 approved**

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**Revision History**

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| **Name** | **Date** | **Reason For Changes** | **Version** |
| **Ryan Lanuzo** | **07/08/2017** | **Initial Draft** | **1.0** |
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## 1. Introduction

## 1.1 Purpose

The software requirements specified in this document addresses the CloverApp. The software requirements specification will only cover the functionalities of the system as to Output, Input, Process, Performance, and Control. The software requirements specification describes the system as a whole.

## 1.2 Document Conventions

Terms used in this document are the following

PoS: Point of Sale

OS: Operating System

CRUD: Create, Update, and Delete

The following document is written using google docs/ microsoft word 2017, using Arial as the font size 12 and Arial 14 for the headers.

## 1.3 Intended Audience and Reading Suggestions

The document is intended for developers, project manager, users, testers, and documentation writers. The system requirements specification serves as a guideline of functions to keep the team on track as to development schedule, a checklist for the project manager to manage the team’s priorities. This Software Requirements Specification consists of the system’s functionalities.

## 

## 1.4 Product Scope

CloverApp is a movile PoS that helps store owners to recording purchases made by customers, an online invoice will be printed out as proof of purchasing items and the online invoice is editable for the store owners to input critical data such as (TIN number, store name and location, etc.). CloverApp requires a cashier in order to function.

The basic CRUD is applied to items and categories, and can input items and categories available on their store.

CloverApp will also produce a sales report summary to keep track of the store’s performance

## 2. Overall Description

## 2.1 Product Perspective

The CloverApp is a Mobile PoS that will be used to monitor the prices based on the item, calculate prices for check out , check payment method, and print an online invoice. The CloverApp is also used to check sales report for meaningful insights on the store’s performance.

## 2.2 Product Functions

The main purpose of the application is to maximize performance, and lessen cost by using a PoS on a mobile platform. With the CloverApp the users will be able to sell items without the use of cash registers for invoice, and barcode scanner for price checking. The users are required to login in order to use CloverApp.

## 2.3 User Classes and Characteristics

There will be two types of users for the application

Manager: User that can CRUD items in the PoS system. Can view sales and inventory analytics. Can revoke items registered in the system before the end of transaction.

Clerk: The user responsible for making a sale.

## 2.4 Operating Environment

CloverApp requires a smartphone/tablet that has android kitkat or later installed. CloverApp will be developed using react-native and requires realm for database development and connection.

## 2.5 Design And Implementation Constraints

CloverApp will only be deployed for Android and will not delve into deployment for IOS due to time and budget constraints.

## 2.6 User Documentation

Other than the System Requirements Specification, the developer will also provide a user manual. Soft copy of the documents can be found on Github and Projects Wiki.

## 2.7 Assumptions And Dependencies

Assumptions:

* Clients are expected to be store owners.
* Client has only one store.

Dependencies:

* Internet connection
* React Native
* React Native CLI
* Firebase
* Yarn
* NPM

## 3. External Interface Requirements

## 3.1 User Interfaces

The admin can register accounts for the users and assign their access level. The user can login and perform point of sales, add items, add item category. The owner has all access in the application.

## 3.2 Hardware Interfaces

The minimum hardware requirements needed for the system are:

* 2 GB RAM
* Android 4.4 (Kitkat)
* 1.9Ghz quad-core processor

## 3.3 Software Interfaces

CloverApp is developed using react-native and only be deployed for android.

## 3.4 Communications Interfaces

The communications function of the application includes email for online invoice.

The application will be connected to through firebase.

## 4. System Features

## 4.1 Login

**4.1.1 Description and Priority**

* Priority Level: 9
* The Login will be responsible for user access and only the owner or admin can register user accounts.

**4.1.2 Stimulus/Response Sequences**

* Login
* Register Accounts

**4.1.3 Functional Requirements**

**REQ-1:** The users can login into the CloverApp

**REQ-2:** The owner or admin registers the user account

## 4.2 Inventory Management

**4.2.1 Description and Priority**

* Priority Level: 9
* The Inventory Management will be responsible for the adding, viewing, editing, and deleting of items and categories per item.

**4.2.2 Stimulus/Response Sequences**

* CRUD Item
* CRUD Category

**4.2.3 Functional Requirements**

**REQ-1:** The user can add, view, edit, and delete items

**REQ-2:** The user can add, view, edit, and delete category

## 4.3 Sales Report

**4.3.1 Description and Priority**

* Priority Level: 9
* The Sales Report will be responsible for viewing sales in order to get useful insights on the store’s performance.

**4.3.2 Stimulus/Response Sequences**

* View Sales Report

**4.3.3 Functional Requirements**

**REQ-1:** The user can view sales report

## 4.4 Sales

**4.4.1 Description and Priority**

* Priority Level: 9
* The Sales will be responsible for item checkout and payment.

**4.4.2 Stimulus/Response Sequences**

* Checkout
* Choose payment method
* Send online invoice

**4.4.3 Functional Requirements**

**REQ-1:** The user picks the items presented by the customer for checkout

**REQ-2:** The user chooses the payment method (cash, credit card, etc.)

**REQ-3:** The user inputs the customer’s email and sends an online invoice

**5. Other Nonfunctional Requirements**

**5.1 Performance Requirements**

The database will be on the cloud therefore internet connection is needed but there will be an offline queue so that if any connection interruption should happen the system will be able to sync when it reconnects to the internet. The application must be able to perform the core functions of a Point of Sale System. Give accurate analytics for sales and inventory. Provide employee authentication for tier 1 security.