**Software Requirements Specification**

**for**

*POS*

Prepared by **UnDone Team**

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**Revision History**

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| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Change** | **Version** |
| UnDone | 17/11/2013 | start writing SRS by using the template to be guideline. |  |
| UnDone  UnDone | 19/11/2013  30/11/2013 | complete SRS  edit (correction) SRS |  |

# **1.** **Introduction**

## 1.1 Purpose

This project is making POS application base on android development. This POS is developed for sale manager, stock manager and also cashier to help managing stock and calculate process sale easily and accurately.

**1.2 Project Scope**

This project is base on android system. The POS must can managing stock , display product catalog , making sale , and show sale report.

## 1.3 References

This is some information about making android:

- <http://www.thaicreate.com/mobile/android-effect-intent-activity.html>

- <http://www.thaicreate.com/mobile/android-sqlite-edit-update.html>

- <http://developer.android.com/sdk/installing/installing-adt.html#tmgr>

- <http://developer.android.com/training/basics/firstapp/creating-project.html>

- <http://www.youtube.com/playlist?list=PL9E21BFF408167ED6>

- <http://www.thaicreate.com/mobile/android-sqlite-listview.html>

- <http://www.thaicreate.com/mobile/android-tabhost.html>

- <http://www.thaicreate.com/mobile/android-intent-activity.html>

# **2.** **Overall Description**

## 2.1 Product Perspective

POS project is a new,self-contained application intended for use on android platform.While this application is the main focus of the project, also has a database on it.The scope of the project is to make a sale and manage inventory system.

## 2.2 Product Features

These are features of Inventory and some process sale :

**-** Add new Product to Product Catalog

**-** Edit product description in Product catalog

**-** Remove Product in Product Catalog.

**-** Add item to Stock

**-** Edit item in Stock

**-** Remove item in stock

**-** Make Sale

**-** Scan Barcode

**-** Calculate Subtotal price

**-** Calculate Total price (Already include tax)

**-** Change price of product

**-** Add SaleLineItem

**-** Remove SaleLineItem

**-** Clear SaleLineItem

**-** Update Stock after making sale

**-** Show graph of profit

**-** Show receipt of SaleLedger

**-** Choose date to see report in that day

For more detail information, see Part 3 or the document (System Features).

## 2.3 User Classes and Characteristics

Manager : check or manage items in stock and products in product catalog and also need to view the profit they get in every day.

Cashier : have important role in sale system. They will calculate total price , tax and making sale by use sale activity.

## 2.4 Operating Environment

This software will use mostly in small business that use a sale and inventory system .It use by Android Phone (specifically Android 2.2 and above) doesn’t require any internet connection.

## 2.5 Design and Implementation Constraints

There is a limited time that we have to make this POS and also it is our first android project.We also use the official Android Developing Tool released by Google along with Eclipse IDE and use our own device to test app but it may got a some mistake that other device doesn’t have the same resolution.This also a big problem

## 2.6 User Documentation

User Manual :

https://docs.google.com/document/d/1CXvXrjIO6C\_nsd2Xv6B4zTOwhl0Dp2-bg4d25djJghE/edit

**2.7 Assumptions and Dependencies**

Some product doesn’t have product ID it can make our application error.And the barcode scanner function that we import to our POS might has some glitch too.

# **3.** **System Features**

These are use cases of Inventory system, Process Sale, Report

**UC1 :** Add new Product to Product Catalog

**UC2 :** Edit product description in Product catalog

**UC3 :** Remove Product in Product Catalog.

**UC4 :** Add item to Stock

**UC5 :** Edit item in Stock

**UC6 :** Remove item in stock

**UC7 :** Make Sale

**UC8 :** Scan Barcode

**UC9** **:** Calculate Subtotal price

**UC10** **:** Calculate Total price (Already include tax)

**UC11** **:** Change price of product

**UC12** **:** Add SaleLineItem

**UC13** **:** Remove SaleLineItem

**UC14** **:** Clear SaleLineItem

**UC15** **:** Update Stock after making sale

**UC16** **:** Show graph of profit

**UC17** **:** Show receipt of SaleLedger

**UC18** **:** Choose date to see report in that day

see more information about UseCase : https://docs.google.com/document/d/1dMQY\_v6B72nVh34K3JxH\_hiZqP5EqbWcosHGT1JNP8A/edit

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# **4.** **External Interface Requirements**

## 4.1 User Interfaces

This application works on android device with friendly user interface in English version so it can use easily without training . And it support using with barcode scanner application to get Id of product and also touching screen. Moreover it have caution in dialog box when user make some action (such as remove item in inventory) so unexpected thing will not happen.

**4.2 Hardware Interfaces**

This application also work with barcode scanner application to read the barcode(Id of product) by using camera to capture the barcode and convert the picture to id number then This Id will automatically show in Id box and user need to fill information of product and this data will store in SQL database.

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## 4.3 Software Interfaces

We use barcode scanner application in Google play market help us to get an ID of the product and also using SQlite as a database to store information.

## 4.4 Communications Interfaces

This POS is connect product from database in the devices memory. It is not connect through internet.

# **5.** **Other Nonfunctional Requirements**

## 5.1 Usability Requirements

US1 : big font of text

US2 : surpassing button color

## 5.2 Performance Requirements

PE1 : accurate calculation in process sale

PE2 : less bug

## 5.3 Supportability Requirements

SU1 : Run on android.

## 5.4 Safety Requirements

SE1 : confirmation dialog when user do some activity (remove/ add/ edit)

**5.5 Software Quality Attributes**

QA1 : scan barcode

**6.** **Other Requirements**

REQ1 : Database requirement, there are 2 database in these POS

- first one is database of stock (include : id, name, cost, quantity, last edit)

- second one is database of product catalog(include : id, name, price, last edit)

# **7.** **Acceptance Criteria**

# Appendix A: Glossary

UnDone Use Case: https://docs.google.com/document/d/1dMQY\_v6B72nVh34K3JxH\_hiZqP5EqbWcosHGT1JNP8A/edit

Appendix B: Analysis Models

UnDone Model :

https://docs.google.com/document/d/1fSQ1g\_iC1kt0O-f8DKmUy2UJGZjT0NfqPsUdhihILZE/edit?usp=sharing

Appendix C: Issues List

There is no TBD in this POS.