

FINAL PROJECT

Section 00313

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TABLE OF CONTENTS

1. *PROJECT OVERVIEW………………………………………3*
   1. *Purpose of the project………………………………….3*
   2. *Goal of the project………………………………………3*
   3. *Scope…………………………………………………….3*
2. *REQUIREMENTS……………………………………………4*
   1. *Functional requirements……………………………….4*
   2. *Non-functional requirements…………………………..5*
3. **PROJECT OVERVIEW**

**1.1 The Purpose of the project**

An Italian ingredients distributor cited the issues of maintaining different lists for delivered and received products manually. Not only this but it was difficult to view and manage orders, whether they have been received or delivered. He had to analyze the inventory items manually which is very time consuming and is prone to human error as well.

It takes a lot of time and effort to keep a record of your sales and generate manual invoice and send it to the customers. An application which could manage all the above-mentioned problems could prove to be very fruitful to the distributor as well as the consumer because the customer also can manage their account . This could help him generate automatic invoices and send to the generated mails by not wasting useful labour in trivial works.

**1.2 Goal of the project**

The goal of the project to meet requirements at every level for both the Admin and the user. This application is going to help the users (restaurants) maintain the orders, the list of goods which have been ordered, delivered or have been put into a pending list.

The application aims to resolve issues of maintaining manual invoice by replacing it with automatic invoice generation which would then be send to the registered mails automatically. Special notifications would be sent to the customers regarding unauthorized login attempts or delivery updates etc.

**1.3 Scope**

The scope of an inventory system can cover many needs as follows :

* To ensure that the supply of raw material and finished goods will remain continuous to that production process is not halted and demands of customers are duly met.
* To keep inventory at sufficiently high level to perform production and sales activities smoothly.
* To minimize investment in inventory to maximize profitability.
* To reduce the losses of theft, obsolescence etc.
* To minimize loss through deterioration, pilferage, wastages, and damages.
* To optimize various costs indulged with inventories like purchase cost, carrying a cost, storage cost, etc.
* To avoid both overstocking and under-stocking of inventory.
* To eliminate duplication in ordering stocks.

1. **REQUIREMENTS** (Functional and Non-functional)

**2.1 FUNCTIONAL REQUIREMENTS**

|  |  |  |
| --- | --- | --- |
| REQUIREMENT  ID | REQUIREMENT  STATEMENT | MOSCOW  MUST,SHOULD,  COULD,WOULD |
| FR 1 | User must sign up and then login using his/her credentials for using the application. | MUST |
| FR 2 | User can order goods, see the list of pending ,received or delivered goods. | COULD |
| FR 3 | User should add the goods to the cart. | SHOULD |
| FR 4 | User could reset the password with the credentials used for signing up. | COULD |
| FR 5 | Special notifications should be sent and received for orders placed or delivered . | SHOULD |
| FR 6 | Admin should be able to manage CRUD operations. | MUST |
| FR 7 | Invoice should be generated automatically and send to the registered mail. | MUST |
| FR 8 | User can view a list of purchased items in the history. | COULD |
| FR 9 | Maintain right number of products in stock. | SHOULD |
| FR 10 | User can edit their personal information. | COULD |
| FR 11 | User can perform CRUD operations on their end by adding, Deleting Updating the items in the cart. | COULD |

**2.2 NON-FUNCTIONAL REQUIREMENTS**

A non-functional is essential to ensure the usability and effectiveness of the entire software system. Failing these requirements can result into failure of customer satisfaction.

**NFR 1 – USABILITY REQUIREMENTS**

The application should be easy to use for users working with restaurant industry, people who have knowledge of online shopping and someone who is fully capable of maintaining and managing the inventory operations . It should be designed in a way that users do not face any problems working with the application or understanding it.

**NFR 2 – PERFORMANCE REQUIREMENTS**

The application should reboot when not working properly without effecting the data of the user and saving it automatically. Bad execution results in negative feedback from the user. It should respond quickly to the user request.

**NFR 3 – IMPLEMENTATION REQUIREMENTS**

The functionalities of the application should be implemented using Android Studio 3.6.3, Fire-base and Just in mind 8.7.7.

**NFR 4 – PORTABILITY REQUIREMENTS**

The application should be able to work at all the versions of android (Oreo, nougat, marshmallow etc.).

**NFR 5 – PRIVACY REQUIREMENTS**

The application does not allow access to personal information to anyone else than the user or the administrator. Nobody can order, change or edit any information on the application without a successful login.

**NFR 6 – MAINTAINABILITY REQUIREMENTS**

The application should be easy to maintain for the administrator which means he should be able to make any kind of changes (in the prices of the products, he should be able to add or delete products) and these changes made should be made in real time which means for example as soon as there is a change in price of an item the if there is a user using the application, the new price will be reflected.

**NFR 7 – RELIABILITY REQUIREMENTS**

The application should be reliable for making payments for the customer account safety because lack of this could lead to negative feedback from the customers.