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**Rajaguru Stores Super Market POS System**

**Concept Paper Information Technology Final Project**

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**Group No:**

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**(Supervisor’s signature)**

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**Introduction**

This is our project for the Rajaguru Stores (PVT) LTD, located in Malabe. Our intention is to make a computer system for the grocery which is currently running manually. There for our targets are to make the system more efficient, fast and methodical than the manual system. This grocery is owned by Sudath Rajaguru. This store has been running manually for 5 years. It has many grocery items and many house hold items.

In this manual system there are lot of issues that we discovered studying the system.

We discussed the problem with the owner of the store and we came to a conclusion about the system. So we got a good idea about the system needed for the system and he agreed with us for our solutions of the system. The target of this project to automate all the activities in this supermarket, even with an online POS system. In this will be saving lot of money, human power and data and to increase its efficiency by using computerized database.

So our utmost expectation is to satisfy the Clients’ requirements as a team.

**Purpose**

The purpose of developing this system is to solve the problems that the customer faces in day today activities.

Problem of this store

* It’s hard to manage the billing and store items since the count of the items increase.
* It’s hard to find the quantity of sold items and the profit of them.
* It’s hard to determine the change in the quantity of the store item.
* It’s hard to summarize the Expenditure, Profit and Loss.
* It Spend more time to make the project.

Since these problems occur it’s hard for the client and his customers to do transactions. By using the system we planned it makes client and his customers to work with ease.

Main benefits of our software are,

* Information security
* Data storage system
* Time is saved, increase in transaction Speed and make the work easy.
* Profit increase
* Can make count of the amount of work done.

**Project Description**

* First gather all the item names, code, price, and we make Database for the items that are in the store, for transactions within the store, storage, etc.
* In the storage of all items there is a maximum and minimum amount that can be stored.
* There is a sub system in the main system where transactions with the customer are handled. In this, the items that are bought by the customer from the client are getting deducted from the storage.
* In the storage system there is an indicator to indicate the decreasing of the amount of the items.
* A bill is issued with the customer name, item name, quantity, item code, amount, card no, signature.
* This is a rough idea of our system. This becomes more detailed when it comes to the implementation of the system.
* Every member of our team is handling a certain part of the system.

**Goals and Objectives**

* Our goal is to satisfy the client’s requirements to the maximum.
* Our intension is to give efficient and productive, client friendly system.
* To limit the errors within the manual system.
* To give reliable information about data and maximum security for the database where data within the system cannot be access by any third party.
* To aware the client about the items that is out of stock. Also to warn about the expired items.
* To do many transactions within a short time.
* To indicate the profit, loss, expenditure, special offer, discounts, within the store.

**Methodology**

We have given you a brief idea in introduction, and in this part we suppose to explain how we are going to achieve our final target during the scheduled period maintaining all the goals and objectives mentioned in the project.

First we analysed all customer requirements and we planned what are the aspects that our automated system should include and how to manipulate them to a complete solution. With that in analysing part we identified major aspects which can solve the problems that our client facing currently.

Billing part is a major part of a grocery and it interacts with all daily transactions. In this system we suppose to provide chance to get a printed bill included of all necessary facts according to client’s requirements such as bought items, quantity of each, price of each and total price, Discounts. A printer connects to the machine and people who handle the system can enter all above values manually and can print the bill from a single command.

Stock Handling is also an important part in the system. All items will be recorded when they accepting from the stock manager. For every transaction System’s database will be update and if some item decreases than minimum number of the certain item the system informs that from a message. Our client don’t want to exist any expired items in the stock, so that we created a notification prompt for stock keeper with expired item’s name and quantity remaining when an item expired.

There is an aspect of the system to store information about the suppliers, what are the equipment they supply, quantity and expire date. And also client requires a section to manipulate information of employees like salary and working hours.

Like we explained, above each part of the system allocated for each member of the team and they have to complete each part within the given time. After creating all the functions by our developing team and we will present the prototype and our presentation introducing to the Infortec International lecture panel. When we finished all the activities scheduled in the time line and now we have to start error handling the system and after that we will be moving to the testing period. If there any error, we will correct that and suppose to submit that and a well executing system.

**Time Frame**

**Tasks Time**

Finding a client and a company for the project 20th to 25th July

Submitting the group confirmation letter 25th July

Analysing the requirements 1st to 25th August

Submitting the concept paper 30th of August

Preparing the budget 1st to 3rd September

Submitting the project proposal 15th September

Creating the SRS document 15th to 30th September

Submitting the SRS document 7th October

Creating prototype 1st to 15th October

Submitting the prototype with presentation 15th October

Implementing the corrected system and coding 15th to 25th October

Submitting the project with final document 25th October

Final presentations after 25th October

**Functions and Members Roles**

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| **Student ID** | **Name** | **Role** |
| 13NU1220 | Samitha Rajaguru | Coding, Testing and Error Handling, Designing Interfaces, Documentation, Client Handling and Time Management |
| 13NU1221 | Hansana Jayathissa | Coding, Testing and Error Handling, Documentation, Create Database, Online System Handling |
| 13NU1222 | Dhanuka Abeywardhane | Coding, Testing and Error Handling, Documentation, Create Database, Budget Handling, Online System Handling |
| 13NU1218 | Devindri Gunawardena | Coding, Testing and Error Handling, Documentation, Customer Details, Designing Interfaces, Create Reports, System analysing |
| 13NU1223 | Navin Keerthirathana | Coding, Testing and Error Handling, Documentation, Time Management, Create Backup and Restores, Project Management |
| 13NU1225 | Yashan Tharindu | Coding, Testing and Error Handling, Documentation, Time Management, Outsources Handling |
| 13NU1106 | Thanula Ramasinghe | Coding, Testing and Error Handling, Documentation, Time Management, Client Handling, HR Management |

**Contact Information**

**Client’s contact information**

* Name - Mr Sudath Rajaguru
* Address - Rajaguru Stores (PVT) LTD, Thalahena, Malabe.
* Contact No - 011-2791167

**Member’s contact information**

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