Made Under the guidance of :

Name :
Class :
Roll No. :

ACKNOWLEDGEMENT

I would like to express my greatest appreciation to the all individuals who have helped and supported me throughout the project.

I am thankful to my computer teacher MRS. _____ for his ongoing support during the project, from initial advice, and encouragement, which led to the final report of this project.

I wish to thank my parents as well for their undivided support and interest who inspired me and encouraged me to go my own way, without whom I would be unable to complete my project.

TABLE OF CONTENTS

- Introduction.....1
- Objective.....2
- Scope of the Project.....3
- Input/Output Requirement.....4
- Hardware and Software Requirement....5
- Front end design.....6
- Back end design.....7
- Database Dictionary.....8
- Security Control/ Data validations.....9
- Future Scope of the Project.....10
- Conclusion.....11
- Reference or Bibliography.....12
- Program Code.....13
- Code Outputs.....28

INTRODUCTION

The 'Grocery Store Management System' is the system where all the aspects related to the proper management of a grocery store is done. These aspects involve managing information about the different products and customers, billing. This system provides an efficient way of managing the grocery store information.

This project's purpose is to produce a software which manages the sales activity done in a grocery store, maintain the stock details, maintaining the records. The user will consume less time in calculation and the sales activity will be completed within a fraction of a seconds whereas the manual system will make the user to write it down which is a long procedure and so paper work will be reduced and the user can spend more time on the monitoring the grocery store. The project is user friendly and easy to use.

OBJECTIVE

The main objective of the project is to manage the details of products in store, product's rates, customer details with full data security. The project is totally built at administrative end thus only the administrator is guaranteed the access. The purpose of this program is to build an application program to reduce the manual work for managing store details such as sales and customer data.

SCOPE OF THE PROJECT

The scope of this project is to :

1. Store the records of each individual customer.

2. Keep record of products purchased by customers.

3. Keep the record of the data of number of products available in the stock.

4. Update the products data after each sale.

5. Keep track of sales.

INPUT/OUTPUT REQUIREMENT

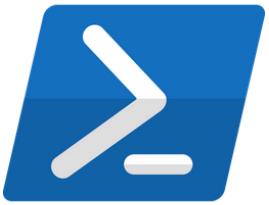
Input Requirement:-

Python 3.9 or above

Password

Username

Output Requirement:-



PowerShell Terminal

MySQL

HARDWARE/SOFTWARE REQUIREMENT

Hardware:-

Processor – Pentium III 630MHz or above

RAM – 128 MB

Hard Disk – 20GB

Monitor – 15” color monitor

Keyboard – 122 keys

Software:-

Operating System – Windows 8 and above

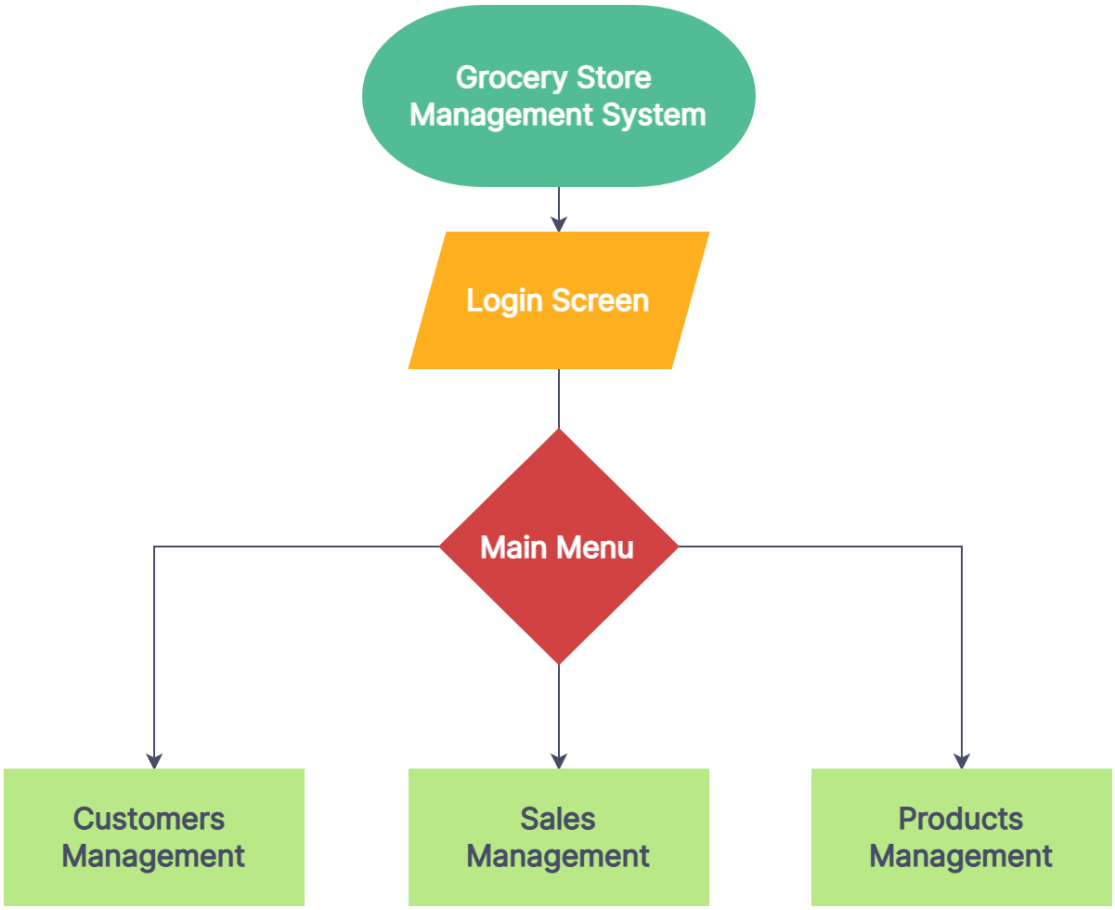
Platform – Python IDLE 3.7

Output Terminal – PowerShell Terminal

Database – MySQL

Language – Python

FRONT END DESIGN



BACK END DESIGN

Database – gsms

Tables:

```
+-----------------+
| Tables_in_gsms  |
+-----------------+
| ambani          |
| customer_table  |
| jack            |
| john            |
| product_table   |
| raju            |
| ram             |
| sham            |
+-----------------+
```

Structure Example :

```
+--------------+--------------+------+-----+---------+----------------+
| Field        | Type         | Null | Key | Default | Extra          |
+--------------+--------------+------+-----+---------+----------------+
| invoice_id   | int(11)      | NO   | PRI | NULL    | auto_increment |
| dte          | date         | YES  |     | NULL    |                |
| products     | varchar(255) | YES  |     | NULL    |                |
| total_amount | float        | YES  |     | NULL    |                |
+--------------+--------------+------+-----+---------+----------------+
```

DATABASE DICTIONARY

Customer Table

Field	Type	Null	Key	Default	Extra
customer_id	int(11)	NO	PRI	NULL	auto_increment
customer_name	varchar(100)	YES		NULL	
phone	varchar(100)	YES		NULL	

Product Table

Field	Type	Null	Key	Default	Extra
product_id	int(11)	NO	PRI	NULL	auto_increment
product_name	varchar(100)	YES		NULL	
price	float	YES		NULL	
quantity	int(11)	YES		NULL	

Customer Records Table

Field	Type	Null	Key	Default	Extra
invoice_id	int(11)	NO	PRI	NULL	auto_increment
dte	date	YES		NULL	
products	varchar(255)	YES		NULL	
total_amount	float	YES		NULL	

SECURITY CONTROL/ DATA VALIDATION

The 'Grocery Store Management System' have inbuilt login system to protect data from data validation. Only the person who is aware of username and password can access the records in the system. If the username and password got leaked admin can always change the username and password as many times as possible. At login menu one can get only three chances to type the correct username and password. After three wrong inputs the program will close.

FUTURE SCOPE OF THE PROJECT

The future scope of this project is :

1. GUI will be beneficial

2. Customer can have their own individual accounts in the application. For now only one person can have the access to this system and its data.

3. Admin can send reminders to customers whose credits are pending.

4. Customer will be able to pay their pending payments within the application

CONCLUSION

The ‘Grocery Store Management System’ is designed to automate manual work which anyways is very slow. It can automatically manage major store work load of keeping track of sales, customer’s invoice records and on top of that also updating the data in the system after each sale. Data in the system is protected with login requirement so only a person with correct username and password can access the data.