

Online Grocery Management System

Objective of Grocery Management System:

The main objective of the DBMS Project on Grocery Management System is to manage the details of Sales, Products, Customers and Employee details. The project is totally built at administrative end and thus only the administrator is guaranteed the access. The purpose of the project is to build an application program to reduce the manual work for managing the Sales, Stock and Payments.

PROBLEM STATEMENT






- A Grocery store has many branches.
- Each branch has 5 Employees.
- The Manager manages all the employees and stocks
- Customer care employees help in the billing process
- Workers in godown make sure all the products are delivered.
- Delivery boy delivers products to the customers
- Customer can buy any item that they wish to buy
- A product is restocked once all the items are sold
- Customer details are stored to improve the experience

BACK END DESIGN

Identification Of Entity:

- ✓ LOGIN SYSTEMS
- ✓ CUSTOMER
- ✓ EMPLOYEE
- ✓ PRODUCTS
- ✓ CART

Description About Entity:





ENITITY NAME	TYPE	NOTATION
CUSTOMER	Strong	
EMPLOYEE	Strong	
PRODUCTS	Strong	
LOGIN SYSTEM	Strong	
CART	Strong	

Attributes:







- CUSTOMER- Phone no. ,Name ,Address ,Contact ,Password
- EMPLOYEE-Employee_id, Name, Address, Phone no,Section , Salary
- PRODUCTS-Product_id, Product_name, Price
- LOGIN SYSTEM-Manager, Customer
- CART-Product_id, Quantity

DESCRIPTION ABOUT ATTRIBUTES:




CUSTOMER:

ATTRIBUTE NAME	TYPE	NOTATION
Name	Single	
Address	Composite	
Phone no	Composite	
Password	Single	

EMPLOYEE:



ATTRIBUTE NAME	TYPE	NOTATION
Employee_id	Single	
Employee_Name	Single	
Employee_Address	Composite	
Employee_phone_no	Composite	
Section	Single	
Salary	Single	

PRODUCT:



ATTRIBUTE NAME	TYPE	NOTATION
Product_id	Single	
Product_name	Single	
Price	Single	

CART:

ATTRIBUTE NAME	TYPE	NOTATION
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Product_ID	Single	
Quantity	Single	

LOGIN SYSTEM:

ATTRIBUTE NAME	TYPE	NOTATION
Manager	Single	
Customer	Single	

Relationship:

BINARY:

- Manages
- Login
- Adds to
- Retrieved
- Monitors
- Clarification
- Delivery

Attributes In The Relationship:

- ✓ Manages
 - Manager
 - Employee
- ✓ Login
 - Customer
 - Manager
- ✓ Adds to
 - Customer
 - Cart

- ✓ Retrieved
 - Cart
 - Product
- ✓ Monitors
 - product
 - employee
- ✓ Delivery
 - Employee
 - customer
- ✓ Clarification
 - Employee
 - customer

Cardinality And Relationship:

- ONE TO ONE:
 - Clarification
 - Monitors
 - delivery
- MANY TO ONE:
 - Retrieved
 - adds to
- ONE TO MANY:
 - Manages
 - Login
 - Maintains

Cardinality About Relation:

- Customer care clarifies customer's doubt
- Employee monitors the products
- The desired products are retrieved to the cart
- The manager manages all the employees
- The employees and the customers logins as per the description

- customer adds the desired products into the cart
- The employee delivers the product to the customer

ER DIAGRAM:

