

ACKNOWLEDGEMENT

I am completely satisfied at this moment to represent my project on the website for the Pharmacy store Management System. This project has been a learning and challenging process for me. The completion of the project would have been unattainable without the assistance and supervision given to me by all the professors of my college & my friends.

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PRILEMINARY INVESTIGATION

INTRODUCTION

The purpose of this project is to improve the maintenance and manipulation of the drugs in the medicals. The pharmacy management system will be used to minimize the time and resource by maintaining the details of the drug systematically so that the data can be used in possible quickest time. While the resource which is minimized are workforce, money, papers, etc. The system is user-friendly and will help the pharmacist. This system will reduce the burden on pharmacist and will make the system efficient by providing the more accurate details about drugs in the medical.

Now a day's Information and Communication Technology (ICT) plays a great role in different fields or areas among thus Health Care System belongs to this. This leads to various studies and researches being conducted to selected health care facilities. It is necessary to ensure a technologically appropriate, equitable, affordable, efficient and environmentally adaptable and consumer friendly system, designed to fully utilize the ICT for the maximum benefit in the health care Industry. Here Computers have great relevant on storing data's securely and ease access on them in short period of time.

In order to exploit the ICT in health care system, Pharmacy Management System is being build. Pharmacy Management System is robust, integrated technology. Pharmacy Management System deals with the maintenance with drugs and consumable in the pharmacy unit. The set-up of the Pharmacy Management system will ensure availability of sufficient quantity of drugs. Pharmacy Management System will design to detect drug interaction.

Current Working on the System

Currently, the medical works are based on the manual process, and each work is maintained in the paper. The details of purchasing drugs, audits, sell reports maintained on the paper while anyone can enter into the system and can make changes in these reports, so it is not a safe method to keep the information on the paper. The pharmacist faces problem in searching the products from the self as it is not an easy method to remember about the place of each medicine. There no system which can alert the pharmacist about the end of the drugs.

LIMITATIONS:-

Problems In Pharmacy:

1. Handling accounts and transactions (Payments, Sales).
2. Handling Stock (Available stocks, expire date).
3. Bill issuing.
4. Responsibilities of the employees (mistakes, cheatings).
5. Sell online

That is why we are designing Pharmacy Management System

Using This Solution:

1. User Authentication
2. Handling Accounts and Transactions
3. Stock Handling
4. Bill Issuing
5. Report Generation
6. Selling Online

PROPOSED SYSTEM

The design of the pharmacy management system is based on the computer which will simplify the maintenance of the information, accessible and efficient. The system will provide the information about the end of the drugs in the medical so that the physician can order them drugs before the end. The pharmacist and nurses will get more accurate results at the time sell, about the details of the use of medicines and the dosages so that the system will become more reliable to use than the present system. The records of each work will be secure as to access the information the user must have to provide the ID and password in the system.

Project is a website that is designed to manage the product's stock, find the product's rack number, and to sell medicines online, by receiving a prescription from the customers.

Module:

Login: The pharmacist will get the access to the system by use of this module. They will need to provide the information about the user ID and the password given to them at the time of registration.

Register: The pharmacist will need to provide some basic details about them into the system after which they will get an ID and the password which they will use to login to the system.

Record: This module will provide the function to store the information about the drugs. While it will give information about dosage, cost and the place where it is kept.

Notification: This module will alert the pharmacist about the end of the drugs.

SOFTWARE REQUIREMENTS:

The system services and goals are established by consultation with system user. They are then defined in details and serve as a system specification. System requirement are those on which the system runs.

Hardware Requirements(minimum):

- Computer with either Intel Pentium processor or AMD processor
- 4 GB RAM
- 100 GB hard disk drive

Software Requirements:

- Microsoft SQL Server Management Studio 2018
- Microsoft Visual Studio 2019
- Web Browser

Operating system : Windows 7/8/10

Database : MS SQL

Language : ASP.NET/C#

Framework : Bootstrap 4.5

FEASIBILITY STUDY

A feasibility analysis involves a detailed assessment of the need, value and practicality of a proposed enterprise, such as systems development. The process of designing and implementing record keeping systems has significant accountability and resource implications for an organization. Feasibility analysis will help you make informed and transparent decisions at crucial points during the developmental process to determine whether it is operationally, economically and technically realistic to proceed with a particular course of action.

Most feasibility studies are distinguished for both users and analysts. First, the study often presupposes that when the feasibility document is being prepared, the analyst is in a position to evaluate solutions. Second, most studies tend to overlook the confusion inherent in system development – the constraints and the assumed attitudes.

Operational feasibility

People are inherently resistant to change, and computers have been known to facilitate change. An estimate should be made of how strong a reaction the user staff is likely to have toward the development of a computerized system. It is common knowledge that computer installations have something to do with turnover, transfers, retraining, and changes in employee job status. Therefore, it is understood that the introduction of a candidate system requires special effort to educate, sell and train the staff on new ways of conducting business.

Technical feasibility

Technical feasibility centers around the existing computer system (hardware, software, etc.) and to what extend it can support the proposed addition. For example, if the current computer is operating at 80 percent capacity – an arbitrary ceiling – then running another application could overload the system or require additional hardware. This involves financial considerations to accommodate technical enhancements. If the budget is a serious constraint, then the project is judged not feasible.

Cost/ Benefit analysis

Economic analysis is the most frequently used method for evaluating the effectiveness of a candidate system. More commonly known as cost benefit analysis, the procedure is to determine the benefits and savings that are expected from a candidate system and compare them with costs. If benefits outweigh costs, then the decision is made to design and implement the system. Otherwise, further justification or alterations in the proposed system will have to be made if it is to have a chance of being approved. This is an ongoing effort that improves in accuracy at each phase in the system life cycle.

Benefits:

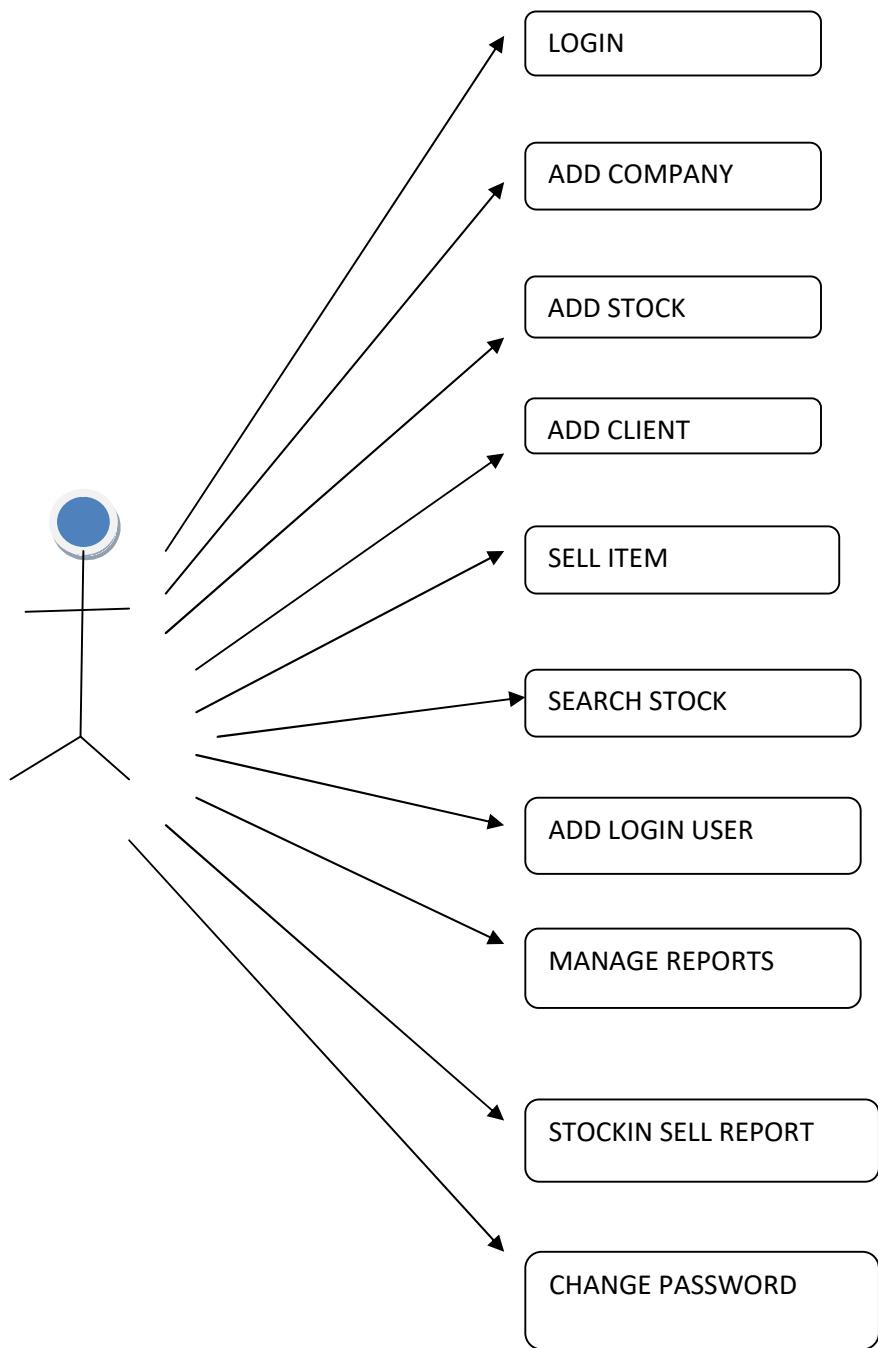
- Avoids tedious typing task
- Faster document retrieval
- Saving storage space
- Keeps data secure
- Easy to use, update and maintain
- Sell online

SYSTEM ANALYSIS

EVENT TABLE

Event	Trigger	Source	Activity	Response	Destination
Customer login	Login	Customer	Checking Id and Password	Login Successful	User
Customer Navigates	Arrival of customer	Customer	Navigates through details	Navigation done	User
Registration of Customer	Details taken	Customer	Adding new Customer	New Customer added	User
Select Category	Category Selected	Customer Admin	Selecting desire item	Exploring Details of item	User
Admin login	Login	Admin	Checking ID and Password	Login successful	Admin
Add order details	New order details	Admin	Adding new order details	New order details added	Admin
Delete order	Delete existing order	Admin	Deleting order	Order deleted	Admin
Modify order	Change existing order	Admin	Modifying order	Order modified	Admin
Add Stock	New Stock	Admin Staff	Adding new stock	New items added	Admin
Modify cart	Crud cart	Admin	Modify	Changes made	Admin
Add company	Company details	Admin	Crud company details	Added deleted company info	Admin
Add pres	Details	Admin user	View pres	Details	Admin

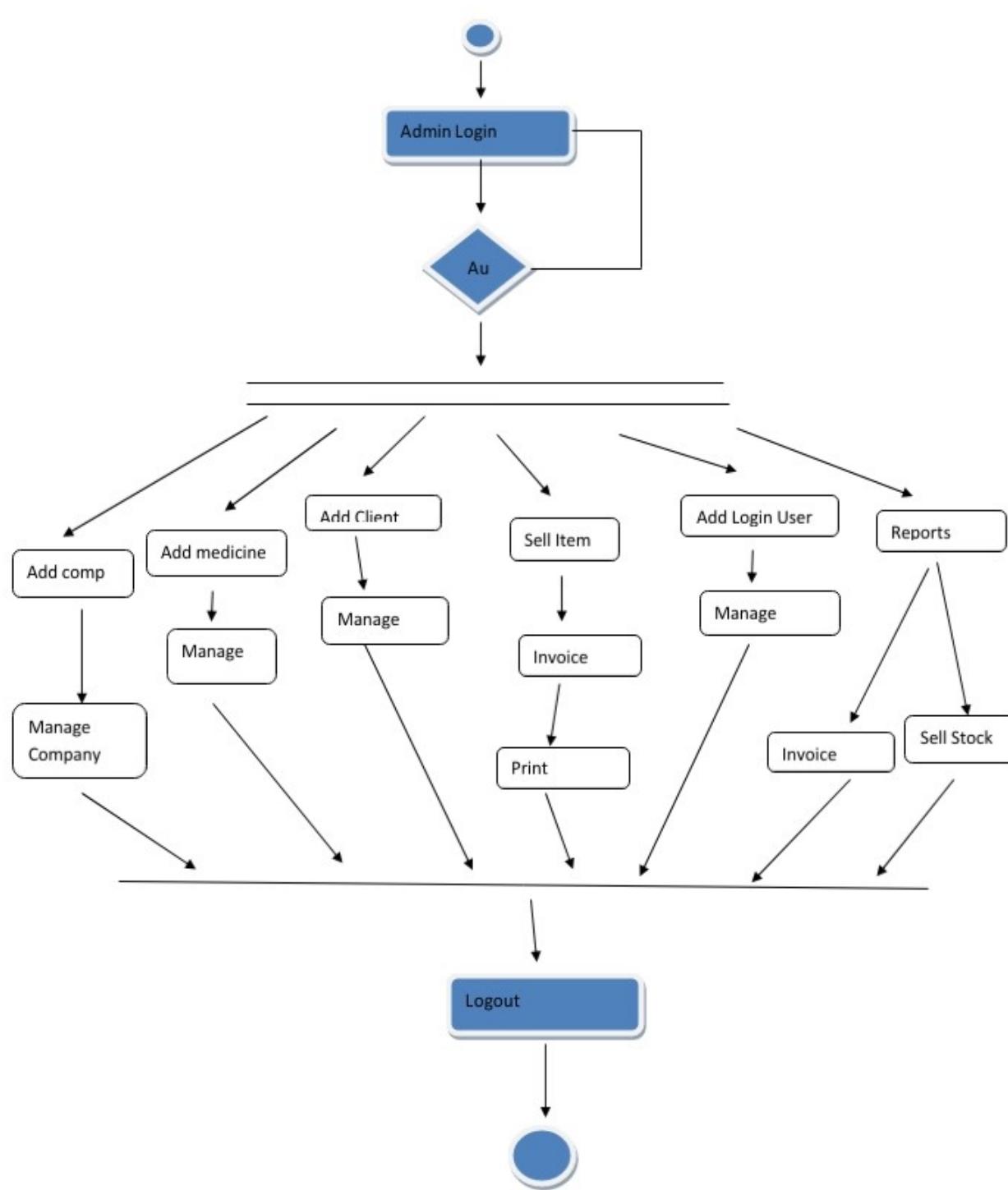
USE CASE DIAGRAM

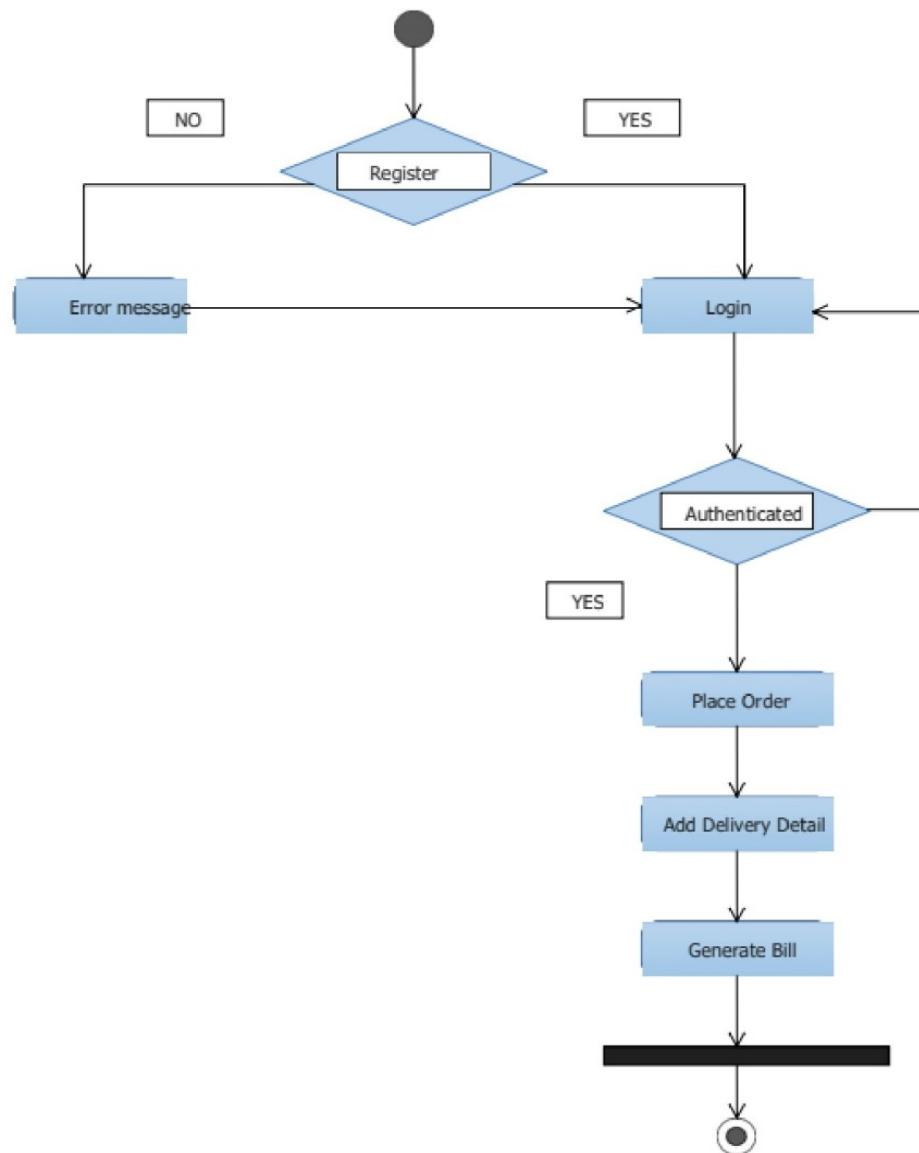


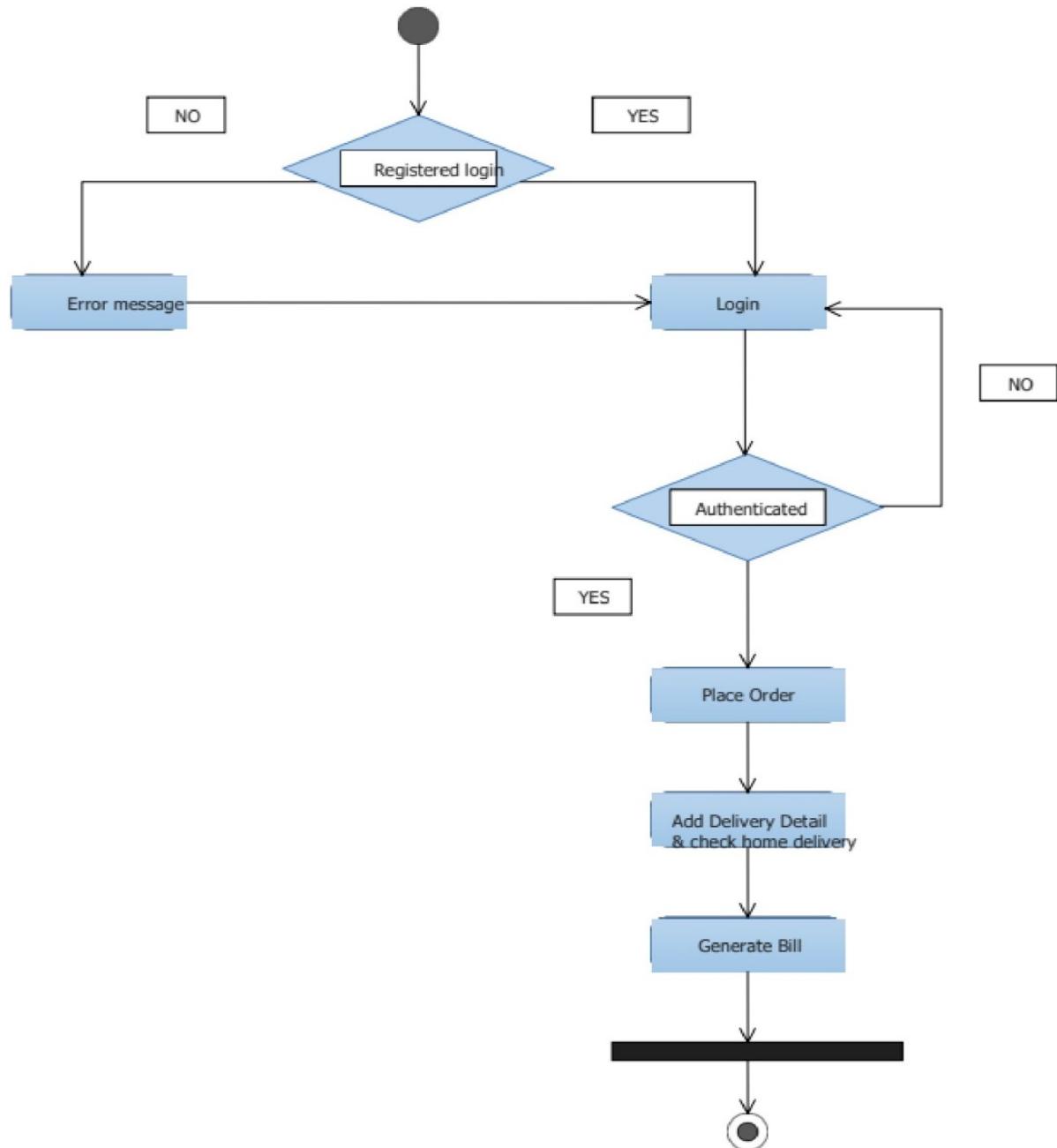
ACTIVITY DIAGRAM

Activity Diagram Symbols

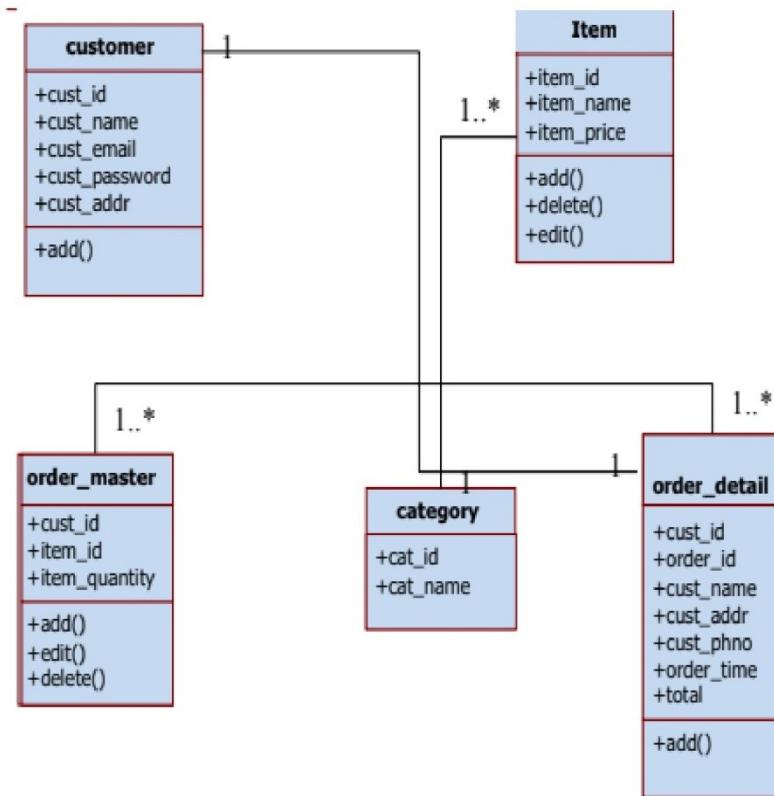
Symbol	Description
	Solid Circle : Start the process of activity diagram
	Rounded Rectangle : Event and Activity.
	Solid Line : Sequence from one activity to next.
	Dotted Store : Flow of information between events.
	Document : Represent report or document.
	Diamond : Branch.
	Table : A place where data to be stored.
	End of Process .



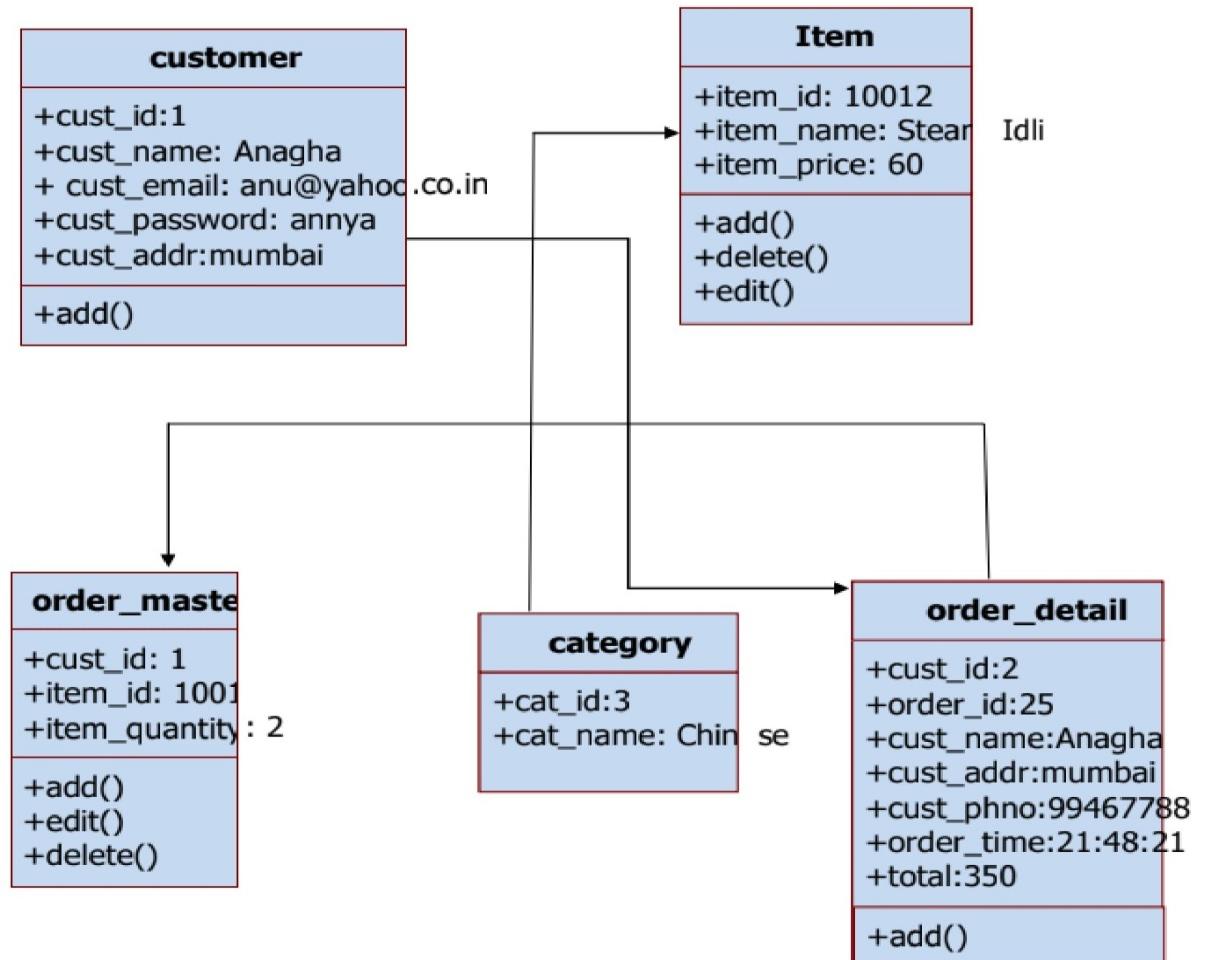
CUSTOMER:

ADMIN:

CLASS DIAGRAM

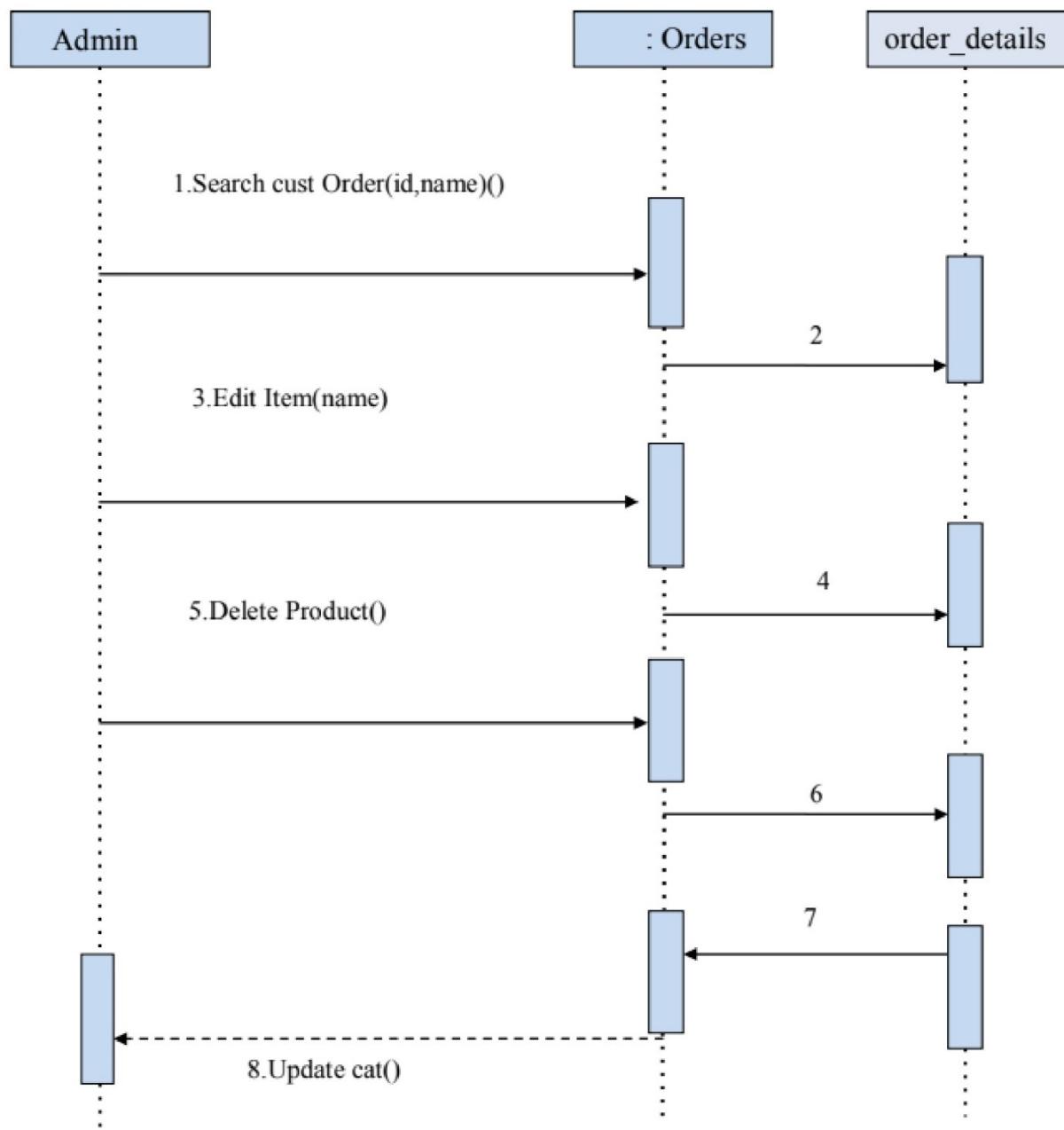


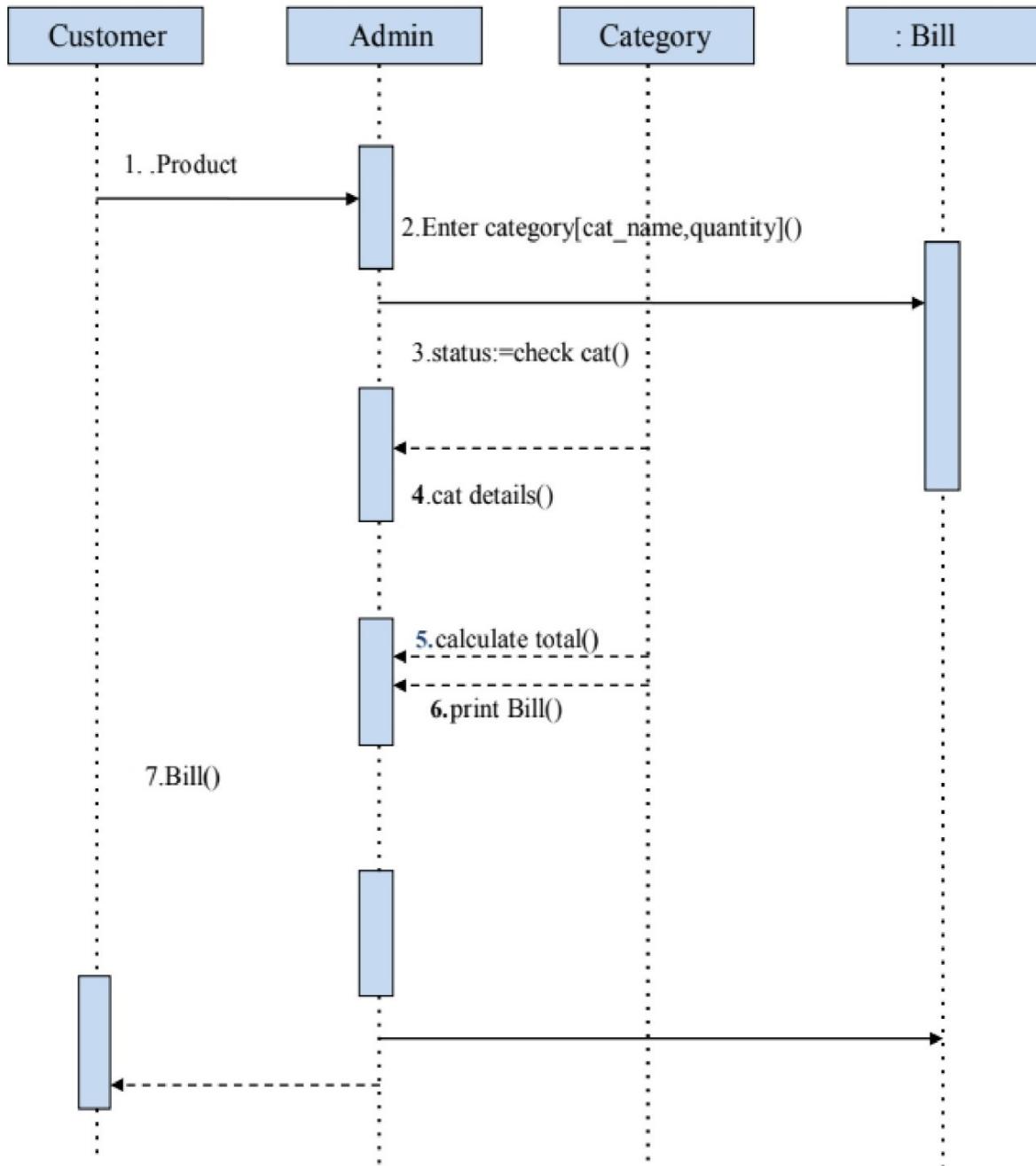
OBJECT DIAGRAM



SEQUENCE DIAGRAM

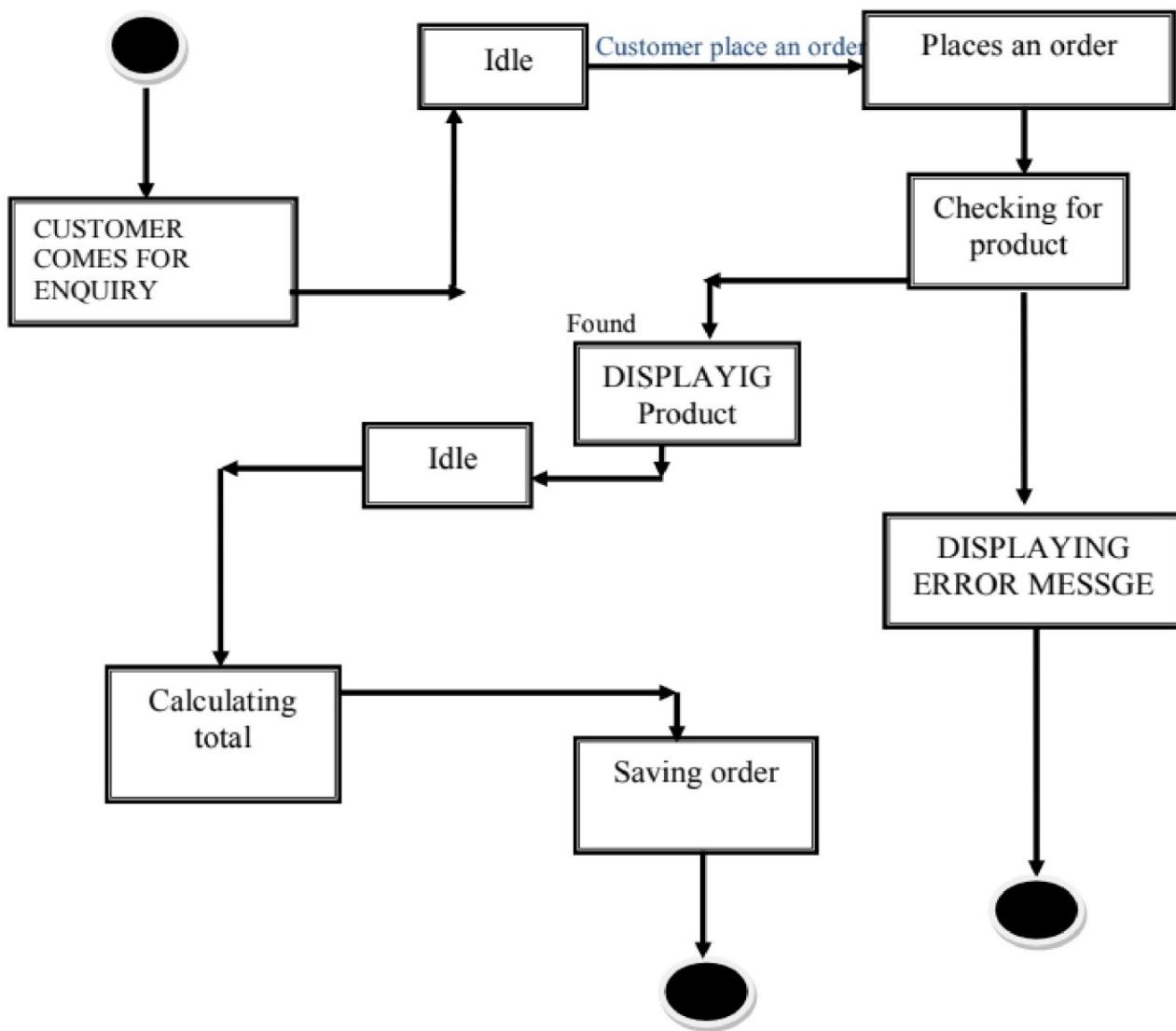
ADMIN:



CUSTOMER:

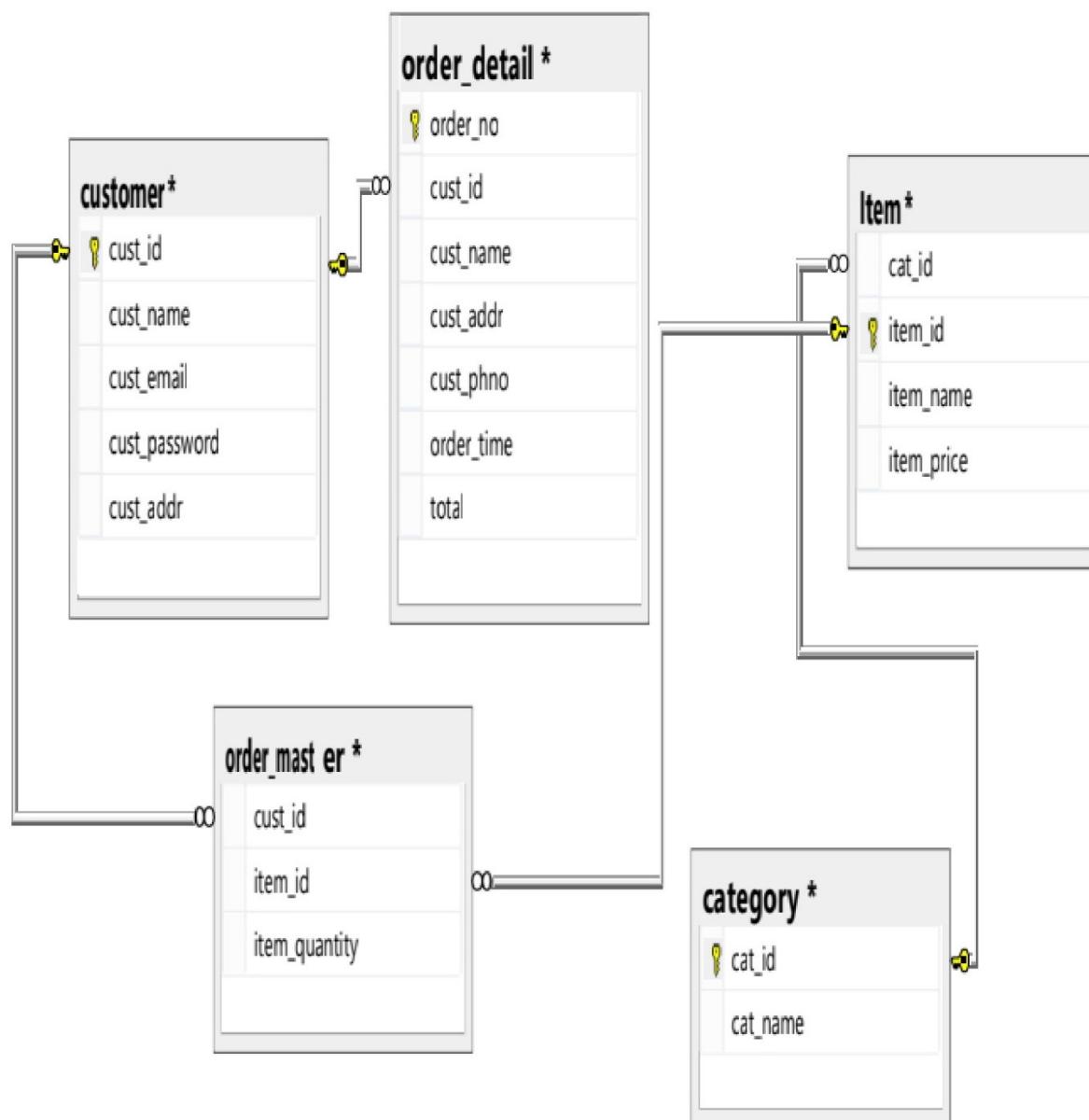
STATE DIAGRAM

CUSTOMER:

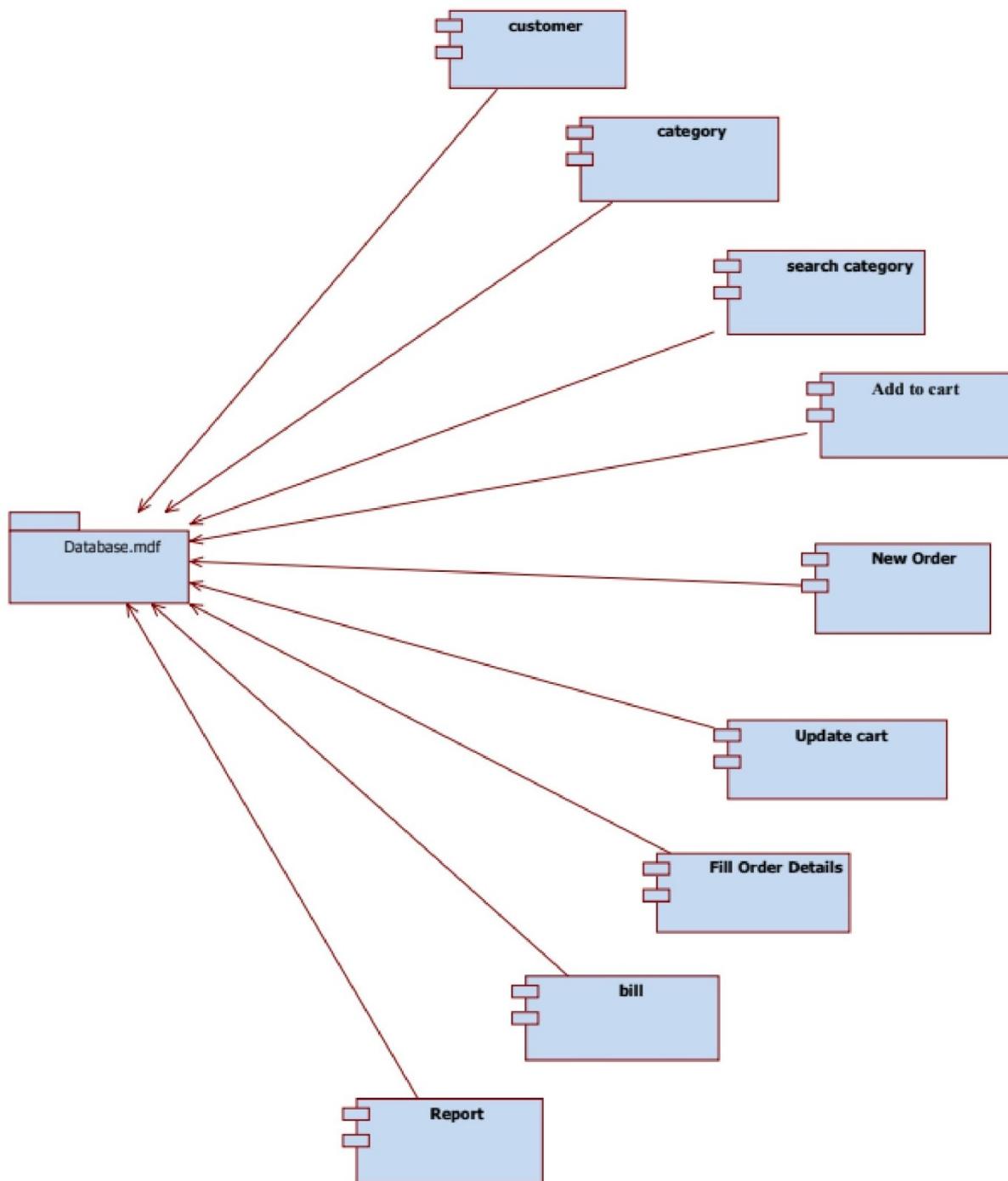


SYSTEM DESIGN

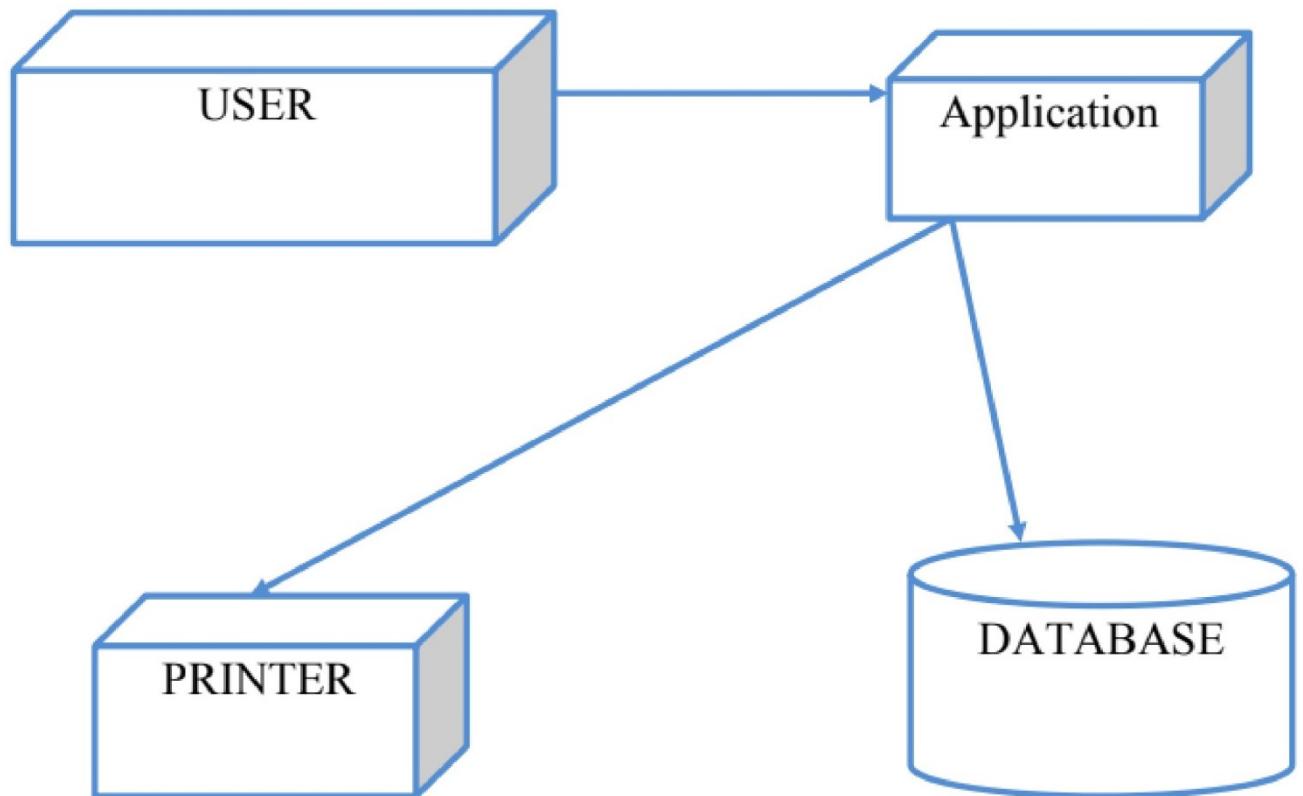
CONVERTING ERD TO TABLES



COMPONENT DIAGRAM



DEPLOYMENT DIAGRAM



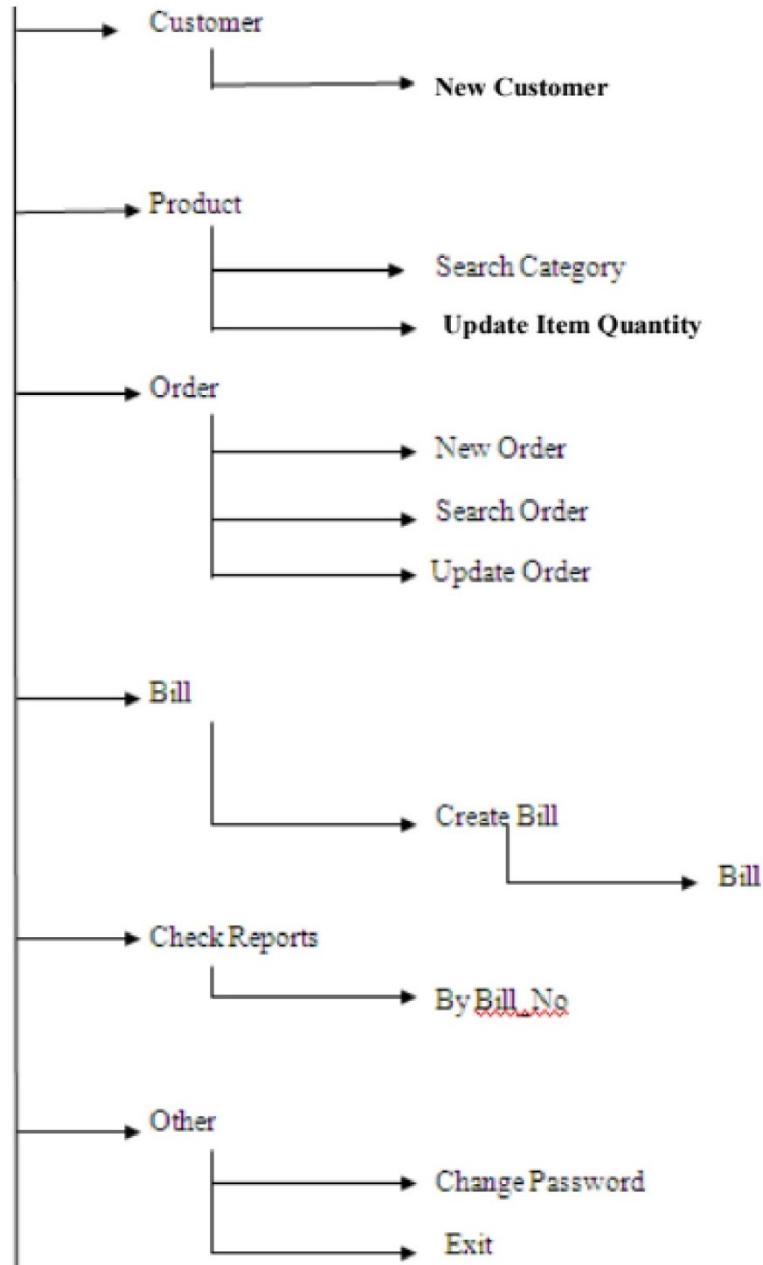
SYSTEM CODING

SITE MAP

Login



Web page



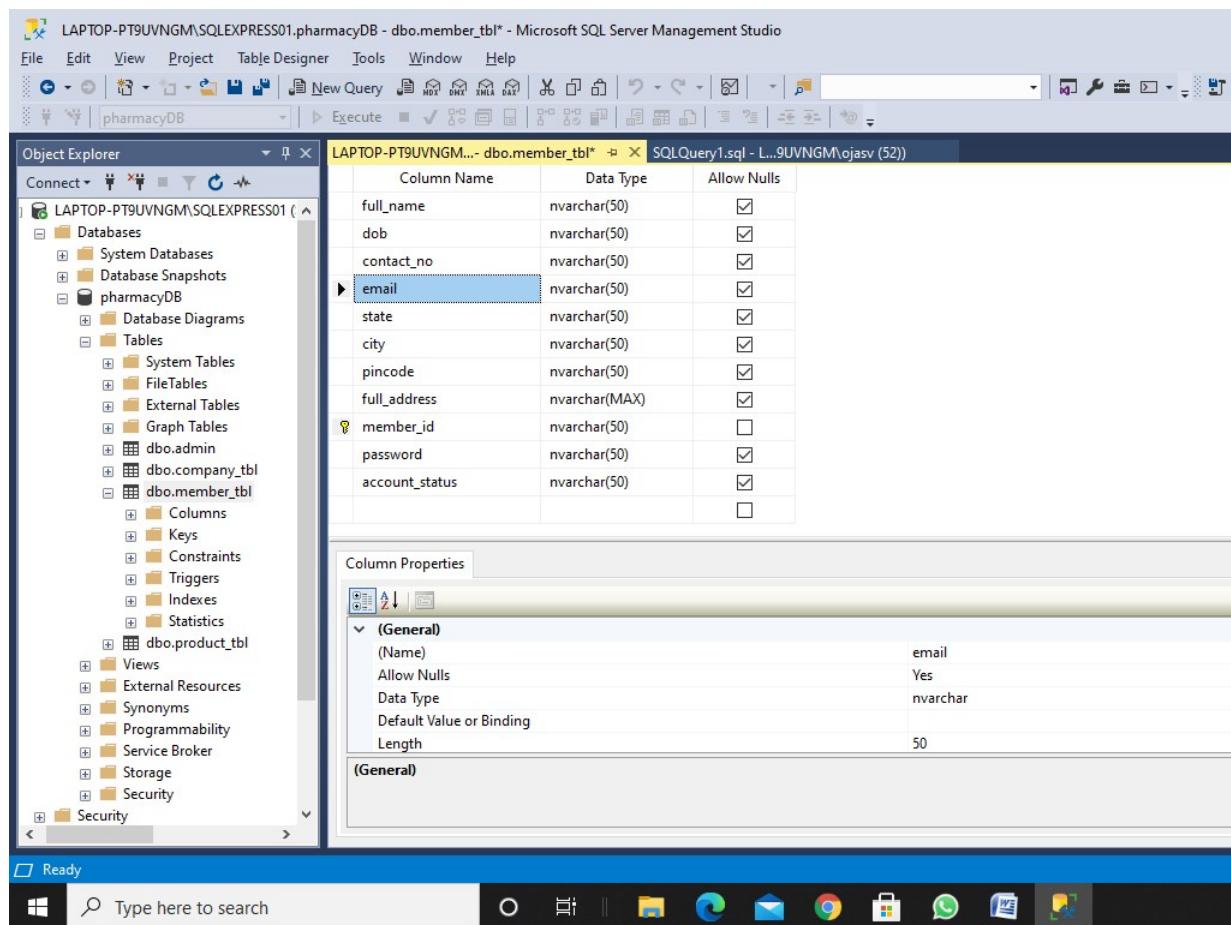
TABLES

WITH ATTRIBUTES AND CONSTRAINTS

DATABASE NAME : pharmacyDB

TABLE NAME : member_tbl

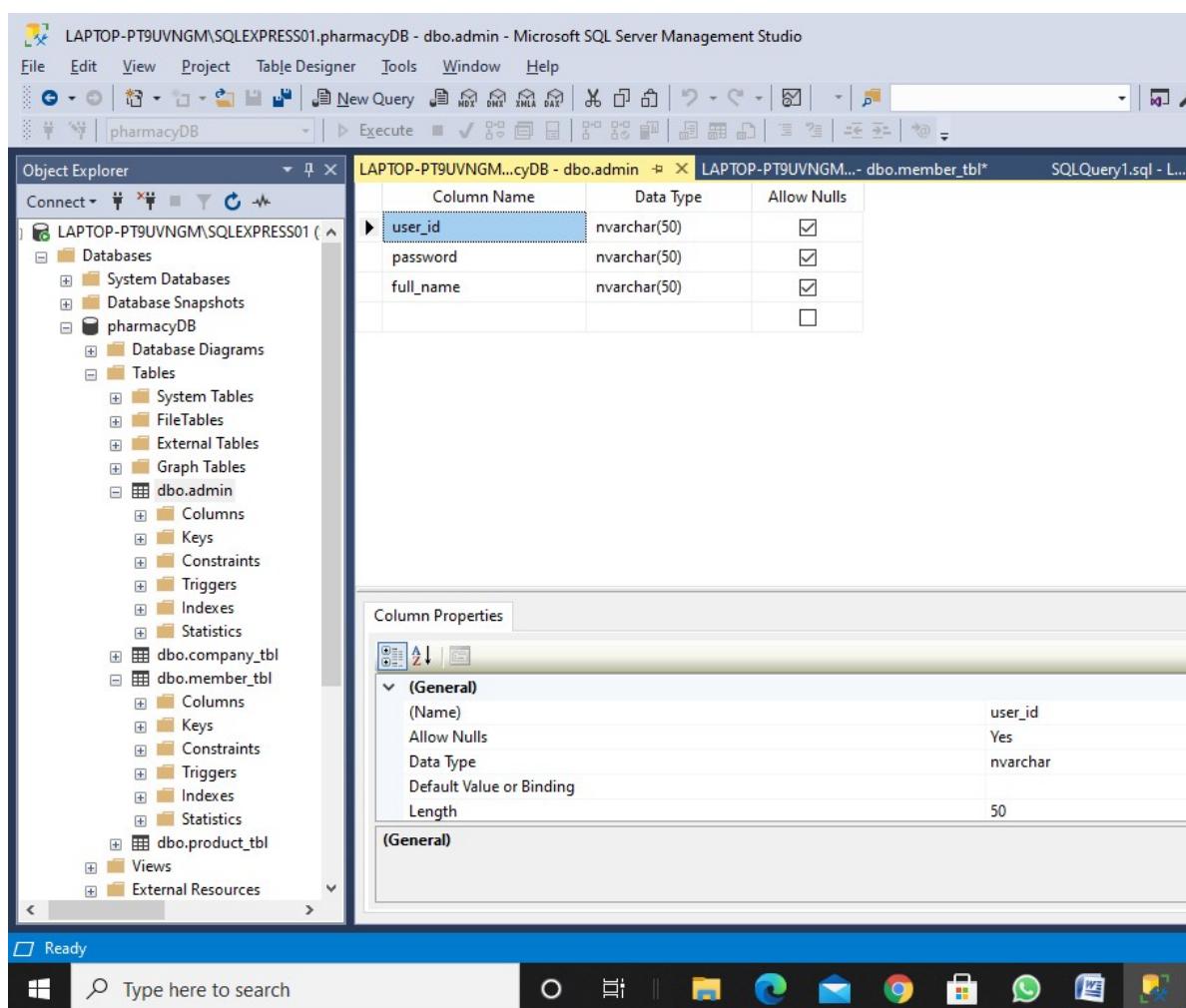
KEYS	FIELD NAME	DATATYPE	ALLOW NULL
PRIMARY KEY	full_name	Varchar	No
-	dob	Varchar	No
-	contact_no	Varchar	No
-	email	Varchar	No
-	state	Varchar	No
-	City	Varchar	No
-	Pincode	Varchar	No
-	Full_address	Varchar	No
-	Member_id	Varchar	No
-	Password	Varchar	No
-	Account_status	Varchar	No



DATABASE NAME : pharmacyDB

TABLE NAME : admin_tbl

KEYS	FIELD NAME	DATATYPE	ALLOW NULL
PRIMARY KEY	user_id	Varchar(50)	No
-	Password	Varchar(50)	No
-	Full_name	Varchar(50)	no



DATABASE NAME : pharmacyDB

TABLE NAME : product_tbl

KEYS	FIELD NAME	DATATYPE	ALLOW NULL
PRIMARY KEY	product_id	Varchar(50)	No
-	product_name	Varchar(50)	No
-	company_name	Varchar(50)	No
-	manf_date	Varchar(50)	No
-	product_cost	Varchar(50)	No
-	total_box	Varchar(50)	No
-	product_description	Varchar(50)	No
-	actual_stock	Varchar(50)	No
-	current_stock	Varchar(50)	No
-	product_img_link	Varchar(50)	No

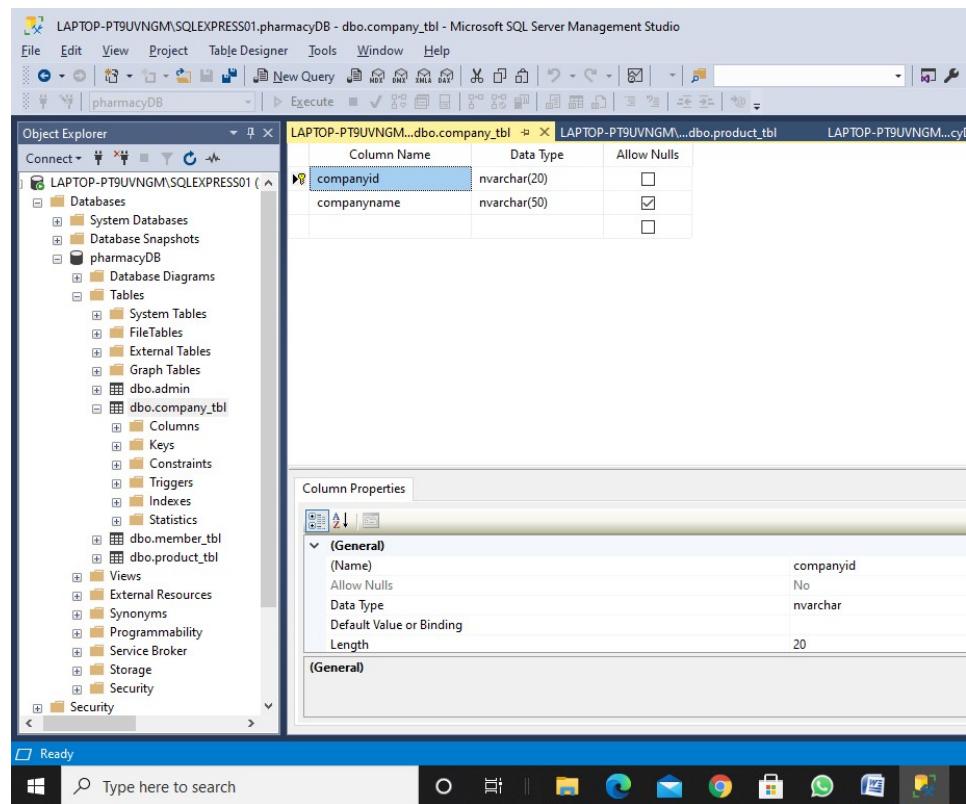
The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The title bar indicates the connection is to `LAPTOP-PT9UVNGM\SQLEXPRESS01.pharmacyDB - dbo.product_tbl - Microsoft SQL Server Management Studio`. The main window is divided into several panes:

- Object Explorer:** On the left, it shows the database structure. Under `pharmacyDB`, there are `Databases`, `Tables` (which contains `dbo.product_tbl`), and other system objects.
- Table Designer:** The central pane displays the `dbo.product_tbl` table structure. It includes a table grid with columns: `product_id` (nchar(10)), `product_name` (nvarchar(MAX)), `company_name` (nvarchar(MAX)), `manf_date` (nvarchar(50)), `product_cost` (nchar(10)), `total_box` (nchar(10)), `product_description` (nvarchar(MAX)), `actual_stock` (nchar(10)), `current_stock` (nchar(10)), and `product_img_link` (nvarchar(MAX)). The `company_name` column is currently selected.
- Column Properties:** A detailed properties pane on the right shows the properties for the `company_name` column. Under the `(General)` section, it lists: `Name` (company_name), `Allow Nulls` (Yes), `Data Type` (nvarchar(MAX)), and `Default Value or Binding` (empty).

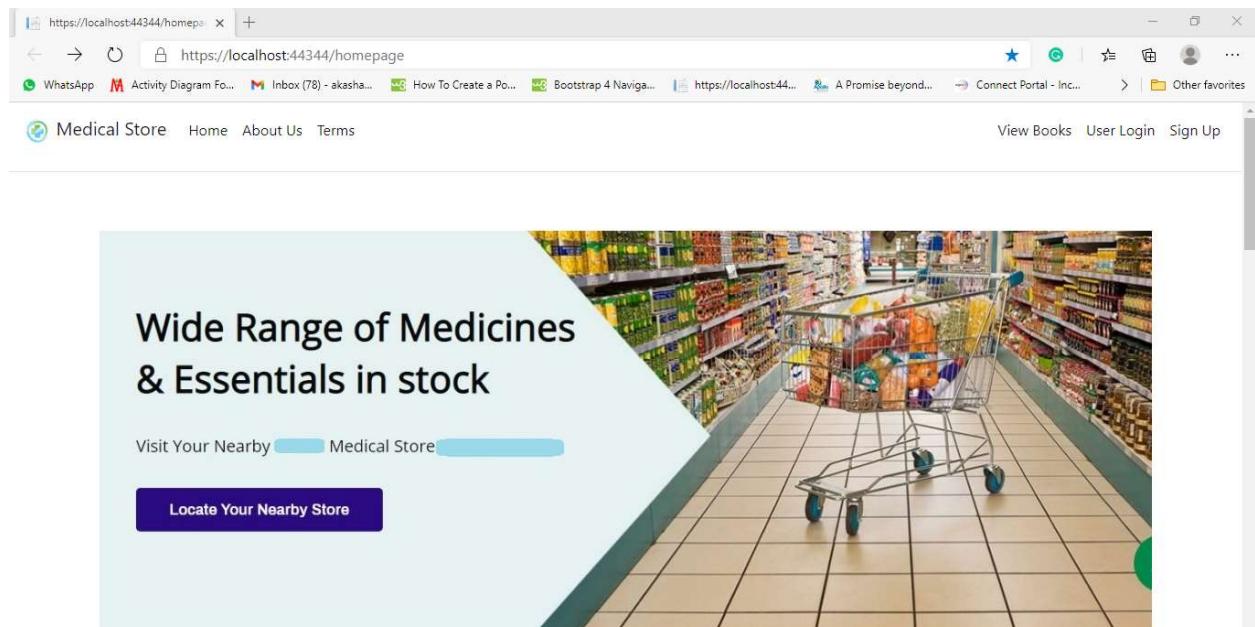
DATABASE NAME : pharmacyDB

TABLE NAME : product_tbl

KEYS	FIELD NAME	DATATYPE	ALLOW NULL
PRIMARY KEY	Company_id	Varchar(50)	No
-	Company_name	Varchar(50)	No



SCREEN SAMPLES



All In One store is nearby →

All needs catered to under one roof,
Department Store, Medical & Supermarket

Our facilities are rendered 24x7, round the year to provide quality and availability of all kinds of imported and domestic medical products with a robust workforce – professionally trained team.

Our products and services extend beyond just a regular Pharmacy, encompassing Cosmetics, Healthy Foods & daily utility products.

Product Range

All needs catered to under one roof,
Department Store, Medical & Supermarket.

<input type="radio"/> Pharmacy	<input type="radio"/> Groceries
<input type="radio"/> Supermarket	<input type="radio"/> Superstore
<input type="radio"/> Cosmetics	<input type="radio"/> Medicines
<input type="radio"/> FMCG	<input type="radio"/> Daily utility products

Admin Login
© All right Reserved

ADMIN Login

 Medical Store Home About Us Terms View Books Logout Hello, Admin



https://localhost:44344/homepage

← → ⏪ https://localhost:44344/homepage

WhatsApp Activity Diagram Fo... Inbox (78) - akasha... How To Create a Po... Bootstrap 4 Naviga... https://localhost:44... A Promise beyond... Connect Portal - Inc... Other favorites

imported and domestic medical products with a robust workforce – professionally trained team.

Healthy Foods & daily utility products.

Product Range

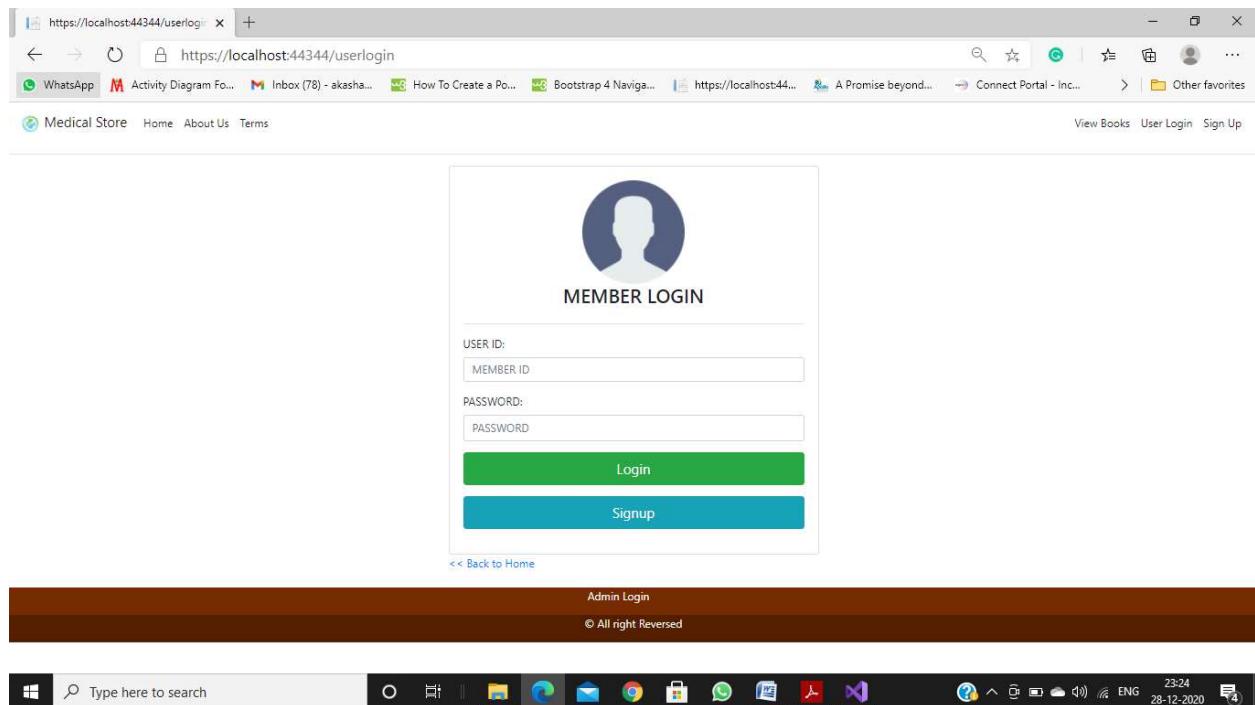
All needs catered to under one roof,
Department Store, Medical & Supermarket.

⊕ Pharmacy	⊕ Groceries
⊕ Supermarket	⊕ Superstore
⊕ Cosmetics	⊕ Medicines
⊕ FMCG	⊕ Daily utility products

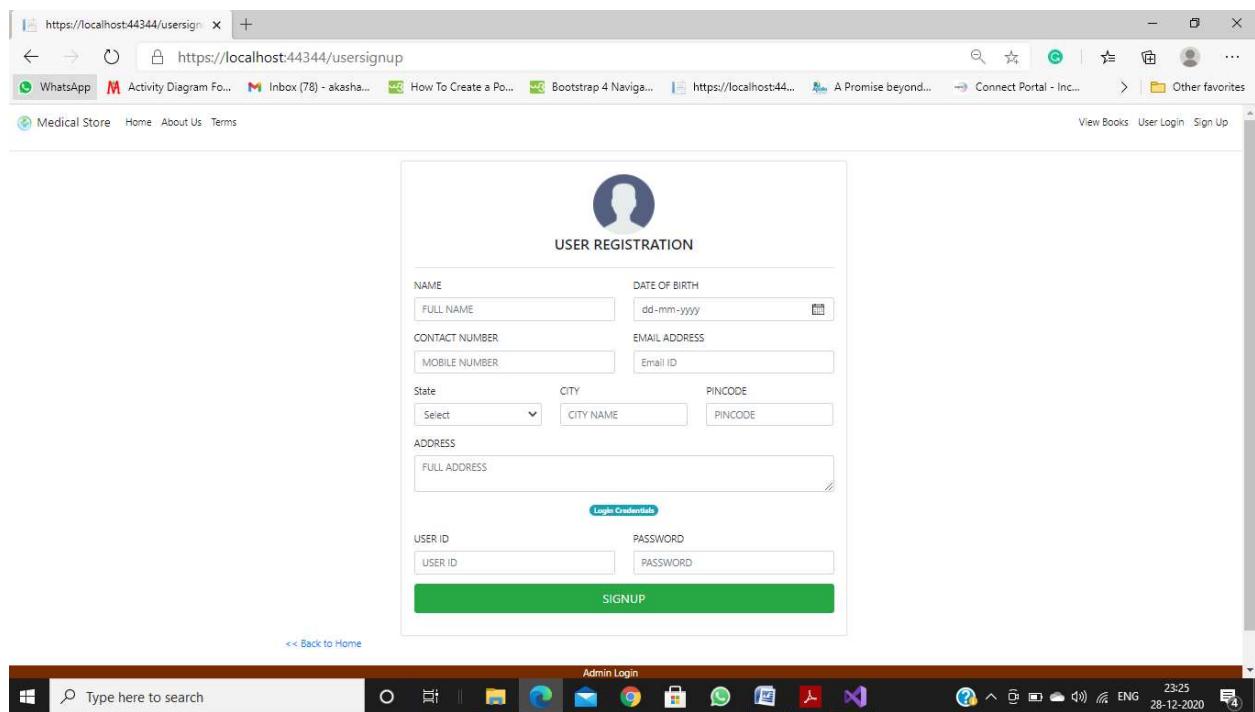
Company Management Stock Stock Inventory Member Management

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User Login



User Signup



Stock Inventory

The screenshot shows a web application interface for managing stock. At the top left, there's a logo with three stacked books labeled 'STOCK'. Below it is a section for 'UPLOAD MEDICINE IMAGE' with a 'choose file' button. To the right, there are fields for 'PRODUCT ID' and 'PRODUCT Name'. Further down, there are dropdown menus for 'TYPE OF DRUG' (set to 'Tablet') and 'Producer Name' (set to 'Producer 1'). There are also date pickers for 'Manufacturing Date' and 'Expiry Date', both set to 'dd-mm-yyyy'. Below these are input fields for 'Gram(mg)' (set to 'mg') and 'Price(per unit)' (set to '₹'). At the bottom, there are three buttons: 'Add' (green), 'Update' (blue), and 'Delete' (red). To the right of the form, there's a large empty container labeled 'Stock'. At the very bottom of the page, there's a link 'Back to Home'.

STOCK

UPLOAD MEDICINE IMAGE

Choose File No file chosen

PRODUCT ID PRODUCT Name

TYPE OF DRUG Tablet Producer Name Producer 1

Manufacturing Date dd-mm-yyyy Expiry Date dd-mm-yyyy

Gram(mg) mg Price(per unit) ₹

New Stock Current Stock Sold till

Unit/s Unit/s now

Add Update Delete

<< Back to Home

Program Description

Class Number	1
Class Name	Login.aspx
Purpose	To login the System for all
Input Tables	Customer
Output Tables	-
Validations	Accessable to the Customer and Admin

Class Number	2
Class Name	Signup.aspx
Purpose	Register Customer
Input Tables	-
Output Tables	Customer
Validations	Accessable to the Customer

Class Number	3
Class Name	categories.aspx
Purpose	Select Categories
Input Tables	-
Output Tables	-
Validations	Accessable to the Customer and Admin

Class Number	4
Class Name	OTC.aspx
Purpose	Select item
Input Tables	-

Output Tables	Item
Validations	Accessable to the Customer and Admin

Class Number	5
Class Name	Genral_care.aspx
Purpose	Select item
Input Tables	-
Output Tables	Item
Validations	Accessable to the Customer and Admin

Class Number	6
Class Name	Baby_care.aspx
Purpose	Select item
Input Tables	-
Output Tables	Item
Validations	Accessable to the Customer and Admin

Class Number	7
Class Name	Ayurveda.aspx
Purpose	Select item
Input Tables	-
Output Tables	Item
Validations	Accessable to the Customer and Admin

Class Number	8
Class Name	Health_devices.aspx
Purpose	Select item
Input Tables	-
Output Tables	Item
Validations	Accessable to the Customer and Admin

Class Number	9
Class Name	homepage.aspx
Purpose	Upload Prescription and view Details
Input Tables	Customer
Output Tables	-
Validations	Accessable to the Customer and Admin

Class Number	10
Class Name	cart.aspx
Purpose	Selected items
Input Tables	Order_master
Output Tables	-
Validations	Accessable to the Customer and Admin

Class Number	11
Class Name	bill.aspx
Purpose	Total bill
Input Tables	Customer,order_detail, order_master
Output Tables	-
Validations	Accessable to the Customer and Admin

Validation

Index	Test Case	Test Data	State	Test Input Values	Expected Result
1.	The email ID should be in proper format	Char or Number less than and special Char.	Invalid	"Anu.com"	Message "Enter Valid Email Address" is displayed
		Number between 0-9	Valid	"anu@gmail.com"	Input Accepted

Index	Test Case	Test Data	State	Test Input Values	Expected Result
2.	The Name field should be in A-Z /a-z	Number or special Char.	Invalid	"Akash45"	Message "Enter Valid Name" is displayed
		A-Z /a-z	Valid	"Akash"	Input Accepted

Index	Test Case	Test Data	State	Test Input	Expected
1.	The Mobile number should be in proper format	Char or and special Char.	Invalid	"88925\$"	Message "Enter Valid Mobile No" is displayed
		Number between 0-9	Valid	9112223334	Input Accepted

Future Enhancement

- Detailed information gathering has to be done. Without that the purpose for using the software won't be satisfied properly.
- However it can give good profits in the long run.
- Implementing the software requires change in the business practices.
- Efficient organization of all knowledge is the analysis company and easy analysis access and retrieval of information is possible.
- In this project we can also include BAR CODE facility using the bar code reader, which will detect the expiry date and the other information about the related medicines.
- Company using this software will always be able to plan in future and always be aware of their financial position in the market.
- It leads to streamlining of business processes.
- The implementation and maintenance costs run very high (about 2 to 3 % of the company's revenue).

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- Complete Reference of Microsoft SQL Server Management Studio 2018

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- <https://www.w3schools.com/>
- <https://www.google.co.in/>
- <https://simplesnippets.tech/>

DOCUMENTATION REFERFED:

- <https://getbootstrap.com/docs/4.5/>