

The Islamia University of Bahawalpur



Online Medicine Search

Version 1.0

**A project presented to
Department of Computer Science, IUB Bahawalpur**

**In partial fulfillment
of the requirement for the degree of**

Bachelor of Science in Computer Science (2019-2023)

By

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DECLARATION

We hereby declare that this software, neither whole nor as a part has been copied out from any source. It is further declared that we have developed this software and accompanied report entirely on the basis of our personal efforts. If any part of this project is proved to be copied out from any source or found to be reproduction of some other. We will stand by the consequences. No Portion of the work presented has been submitted of any application for any other degree or qualification of this or any other university or institute of learning.

M. Wasif Rehan

CERTIFICATE OF APPROVAL

It is to certify that the final year project of BS (CS) “Online Medicine Search” was developed by M. Wasif Rehan, FA19M2BA094, 2019-2023 under the supervision of “Mam Urooj Fatima” and that in her opinion; it is fully adequate, in scope and quality for the degree of Bachelors of Science in Computer Sciences.

Supervisor

External Examiner

Chairman Department of Computer Science

Acknowledgement

Give acknowledgment to all who helped to complete this project.

M. Wasif Rehan

Abbreviations

Provide a list of all abbreviation used in the document.

PC	Personal Computer
IEEE	Institute of Electrical and Electronics Engineers
RDBMS	Relational Database Management System
OOP	Object Oriented Programming
HTML	Hypertext Markup Language
CSS	Cascading Style Sheets
ER Diagram	Entity Relationship Diagram

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Chapter 1

Introduction

1.1 Purpose

The objective of this document is to provide details and description about the project or software system called “Online Medicine Search”. This reports its features, functional, and non-functional requirements. This document answers to the questions; What will be the interface, how system will work, and what could be constraints to users? The stakeholders of this platform or website are Medical Store owner and common peoples.

1.2 Scope

This project is an online medicine search web application. This application allows a visitor to search for a medicine and addresses of medical stores (wholesale and retail sales) where the medicine is available. Medical Stores can put their medicines and personal info for visitors.

1.3 Definitions, Acronyms, and Abbreviations.

ASP.NET: Active server Pages, a framework for building web apps and services with .NET and C#.

IEEE: Institute of Electrical and Electronics Engineers.

1.4 References

IEEE 830-1993 standard format is followed.

1.5 Overview

In section 2, functionalities of the system is defined as in natural language easy understandable to the user. In section 3, each functionality is elaborated so that it could be helpful for the developers as well. Functionalities are written in sequence with perspective of three users. i.e Admin, Medical Store member, visitor

1.6 Product Perspective

This “ONLINE MEDICINE SEARCH” is an online medicine search web application. This application allows a visitor to search for a medicine and addresses of medical stores (wholesale and retail sales) where the medicine is available.

Main need of the client is to prepare an online application to help the needy people in finding the availability of the medicine and a list of medical stores where the medicine is

available. The visitor can quickly find the nearest medical store by selecting the area in the search tools.

This application also provides a login account to a registered medical store. Using this account a person from the medical store can update the list of medicines and their stock on daily-wise. This avoids providing outdated data to the visitor.

1.6.1 System Interfaces

- Public Pages Module
- Medical Store Module
- Medicine Search Module
- Admin Module (Operator)

1.6.2 Interfaces

Our application's all interfaces will be user friendly and user can perform these above functionalities easily.

1.6.3 Hardware Interfaces

- Machine: 32bit OR 64bits.
- CPU: at least ability to run latest operating system with internet Connection.
- RAM: 512MB OR 1GB .
- Disk: 1GB

1.6.4 Software Interfaces

- Operating System: Windows Server
- RDBMS: Sql Server
- Web Browser: Internet Explorer
- Web Server: IIS
- Technology: ASP.NET
- Languages used: C#.NET

1.6.5 Communications Interfaces

The means of communications will be through web services.

1.6.6 Memory Constraints

- RAM: 512MB OR More.
- Disk: 1GB

1.6.7 Operations

None.

1.6.8 Site Adaptation Requirements

None.

1.7 Product Functions

Public pages module:

These modules are useful in providing information to a visitor (login is not required) about the website and contact address and numbers. The homepage displays the main features of the website.

Medical store module:

These modules can do add a new medicine to list, manage existing Medicines List, and edit or Update medicines stock and maintain the application settings

Medicine search module:
This module can do for Search and advanced search for search results and search results filtration

Admin module (Operator):

These modules allow an administrator of the website to manage cities and manage master data. And also provide Manage Medical Store User Accounts.

1.8 User Characteristics

The user of our system is not necessary to be technical expert. Our system user education level is no specified but he will be aware of surfing internet. Anyone can use our system easily.

1.9 Constraints

The system must have an internet connection with compatible browser like Google chrome, Firefox and Mozilla etc.

1.10 Assumptions and Dependencies

Our application will be hosted on the cloud environment . Our main issue that may occur and effect our requirement will be the load of traffic will be handle in the long run with the help of load balancer.

1.11 Apportioning of Requirements

This application should be update due to new secure algorithms or new version of the Database adding the new reliable functionality.

Chapter 2

Software Requirements Specification

2.1 Specific Requirements

This section contains all the software requirements at a level of detail sufficient to enable designers to design a system to satisfy those requirements, and testers to test that the system satisfies those requirements. Throughout this section, every stated requirement should be externally perceivable by users, operators, or other external systems.

2.2 Functional Requirements

1	Medical Store Admin
2	Admin (Operator)
3	Visitor
4	Registration
5	Login
6	Logout

2.2.1 Medical Store Admin

Description	The user Medical store admin will be able to create account on our application then account credentials will be given to the store admin using these credentials he will be able to perform crud functionality of medicines of his own medical store.
Inputs	Medical store admin creates his/her store and add medicine to the store.
Processing	Data is stored in Database
Outputs	Medicines and store details will display on medical store admin panel.
Error Handling	All Errors will be handled by Exception handling in ASP.Net.

2.2.2 Admin (Operator)

Description	Main Admin (Operator) will be able to block or unblock user medical store admin on the basis of his/her activities.
Inputs	Main Admin(operator) uncheck the role of (medical store admin).
Processing	Medical Store Admin role change in database.
Outputs	Display all user details with new roles on Admin panel.
Error Handling	All Errors will be handled by Exception handling in ASP.Net.

2.2.3 Visitor

Description	Visitor visit our application and he/she will be able to search medicines and medical stores.
Inputs	Search parameters will be passed through search bar etc.
Processing	The Searching will be done according to passed parameters and prepared for view.
Output	Result will show on web page.
Error Handling	All Errors will be handled by Exception handling in ASP.Net.

2.2.4 Registration

Description	Medical Store Admin once must be register oneself firstly. After registration he/she can create medical store and add medicines
Inputs	Customer provides the basic information about the user like name, email, content number, password.
Processing	Received data from the user in text fields and save in database .
Outputs	Display login page.
Error Handling	All Errors will be handled by Exception handling in ASP.Net.

2.2.5 Login

Description	System will create the login page for the user. User provides the basic information and visit his/her panel.
Inputs	User will provide the valid email and password and login into his/her login.
Processing	<ul style="list-style-type: none">• System received the data from text fields.• Database will verify the data according to the requirements.
Outputs	Display required panel.
Error Handling	All Errors will be handled by Exception handling in ASP.Net.

2.2.6 Logout

Discription	After adding medicines medical store admin will logout
Inputs	Click on logout button.
Processing	Logout function call when hit the logout button.
Outputs	System will show you have logout. Display home screen
Error handling	All Errors will be handled by Exception handling in ASP.Net.

2.3 Functions

- Search medical store by the area
- Search for the medicine by the name
- Add medicine by the store admin
- Medicine is updated or deleted by the store admin
- Register medical store on our server

2.4 Performance Requirements

The developed system must be interactive and must have as less as delays. It responds to every kind of situation. It works and response efficiently. It should provide the fast response of each activity of the application.

2.5 Logical Database Requirements

This section specifies the logical requirements for any information that is to be placed into a database. This may include:

- Medicine data stored in database
- Login and Registration Information of the user is stored in database

- All the activity performed by user
- Login and Registration relationship with users
- Any necessary field could not be null.
- Constrains are applied to all fields.

2.6 Design Constraints

- HTML, CSS, JavaScript, Adobe Photoshop, bootstrap used for the activities
- Web design Is responsive in any kind of mobile device and laptop PC.

2.6.1 Standards Compliance

- This Web application is free available for user
- No standard charges apply usage of database.

2.7 Software System Attributes

2.7.1 Reliability

The online medicine search web application shall provide reliable information of medicine because of the verified information of the admin at the time of registration.

2.7.2 Availability

If internet service gets disconnected while sending information to the server, the information can be send again as internet get available with verification. And the system will be available for general public to use. Means if user update the application and internet service gets down then after the internet connectivity the application should be update.

2.7.3 Security

The main security concern is for users account hence proper login mechanism should be there to avoid any kind of unauthorized authentication. So there should be highly security checks on every operation so that user can feel free to give their data. Users data is secure. Safe from unauthorized accesses because of separate portals.

2.7.4 Maintainability

Maintainability means that the system can be maintainable once it constructed or developed. It means that there should be room for maintenance if any of conflict is occurred in the system after developing. And requirement should be change with the passage of time.

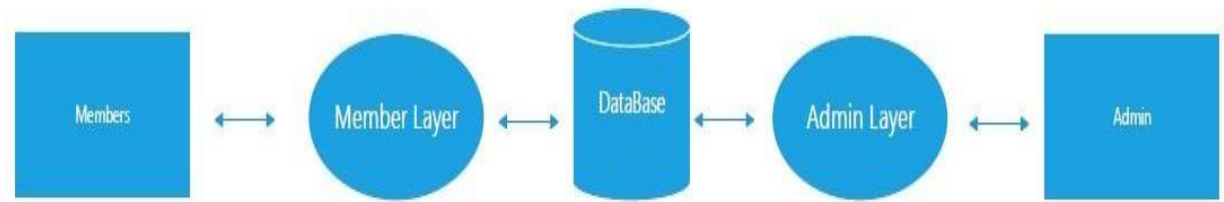
2.7.5 Portability

The Online medicine search web application shall be accessed by any window or Linux system.

Chapter 3

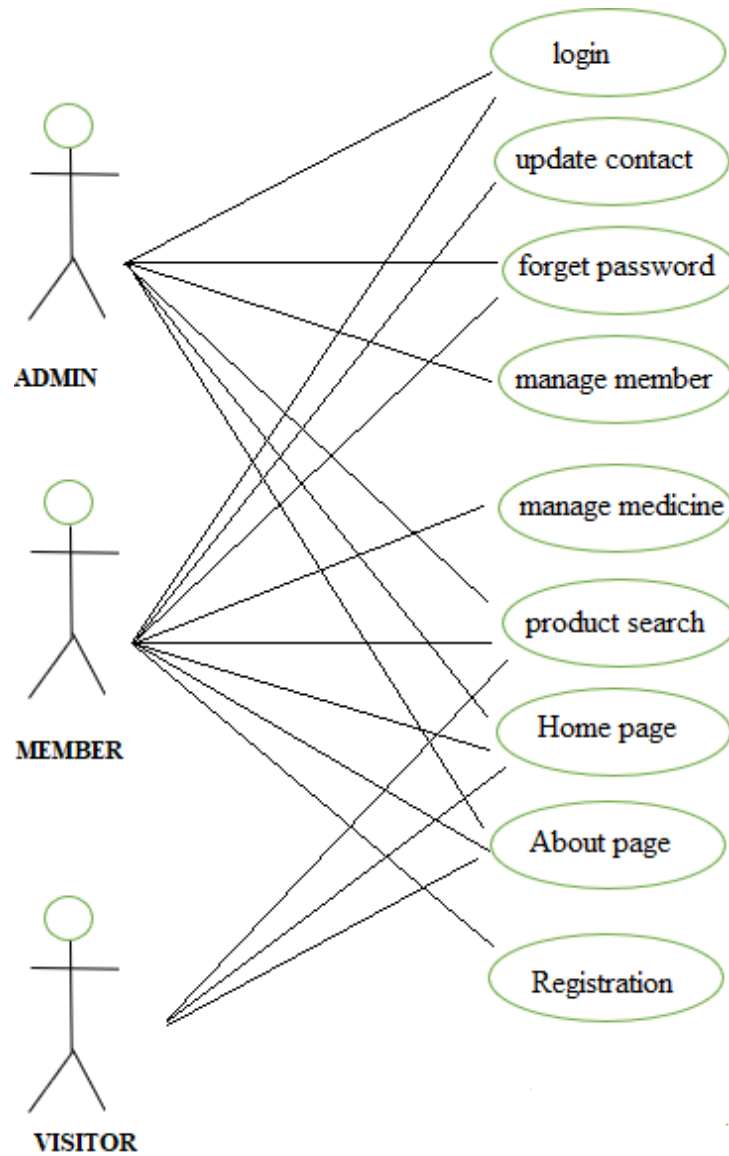
System Design and Architecture

3.1 Architectural Design

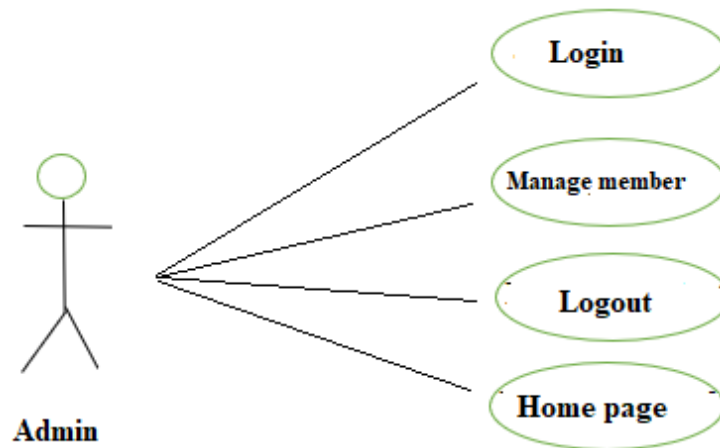


3.2 Decomposition Description

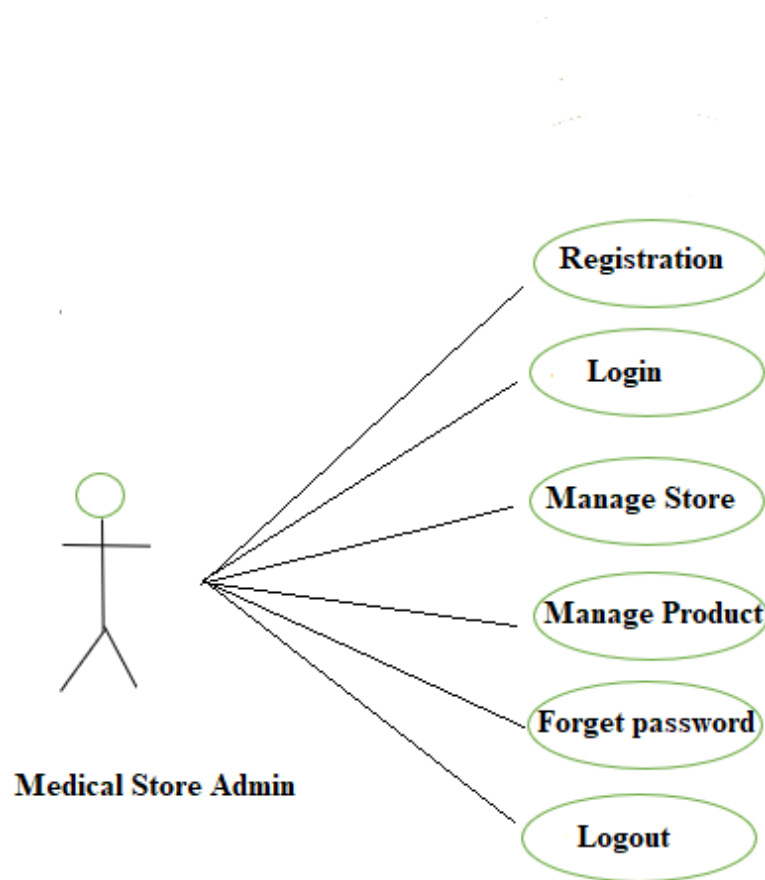
3.2.1 Use case Diagram of Online Medicine Search



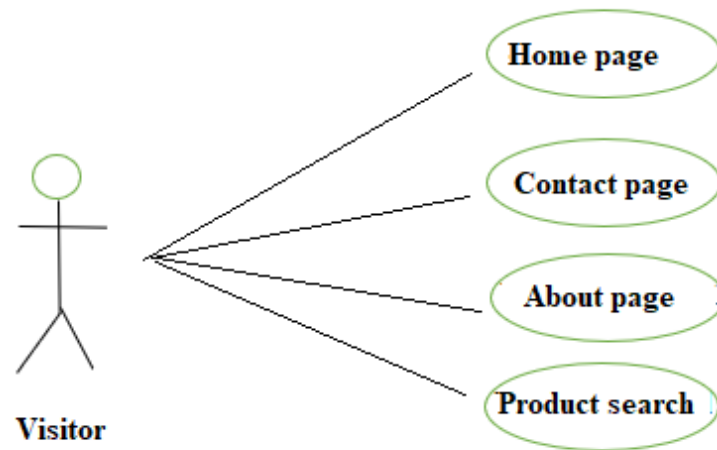
3.2.2 Use case Diagram of Admin



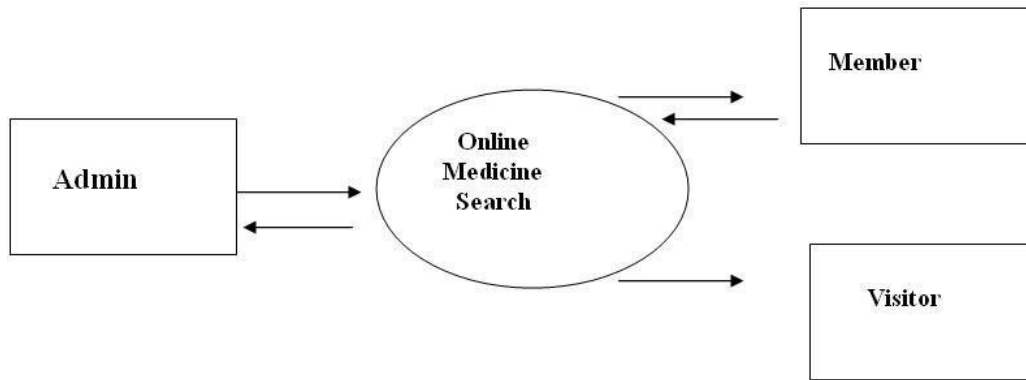
3.2.3 Use case Diagram of Member

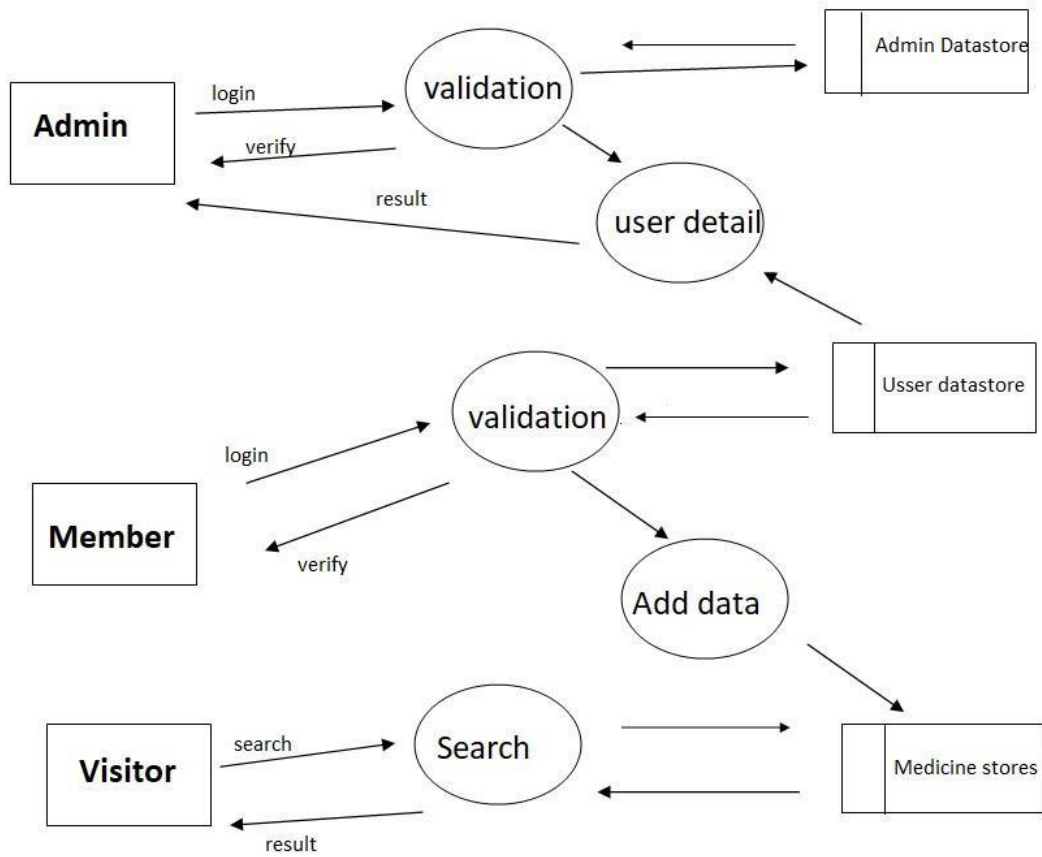


3.2.4 Use case Diagram of Visitor

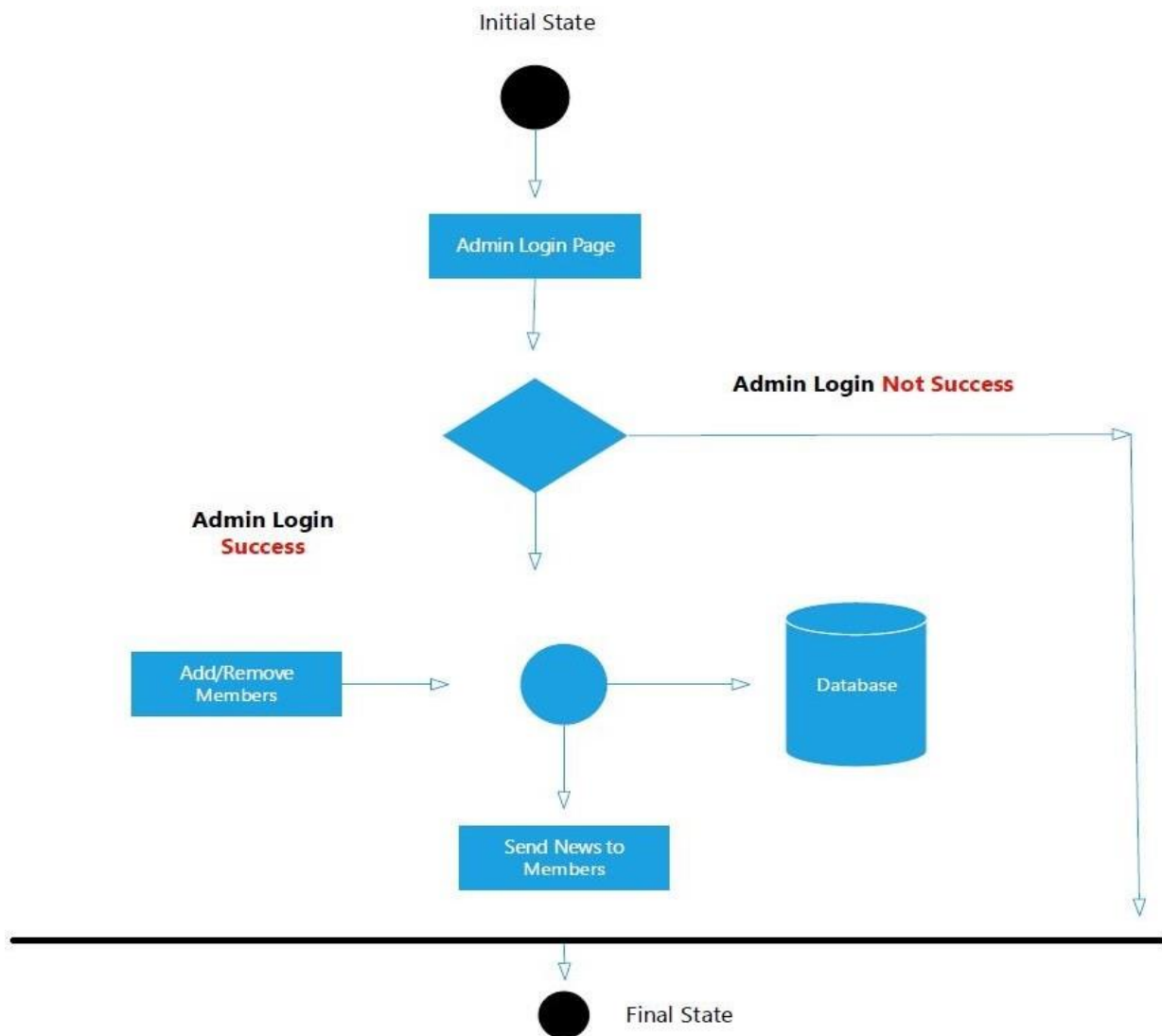


3.2.5 Level 0 (Data Flow Diagram)

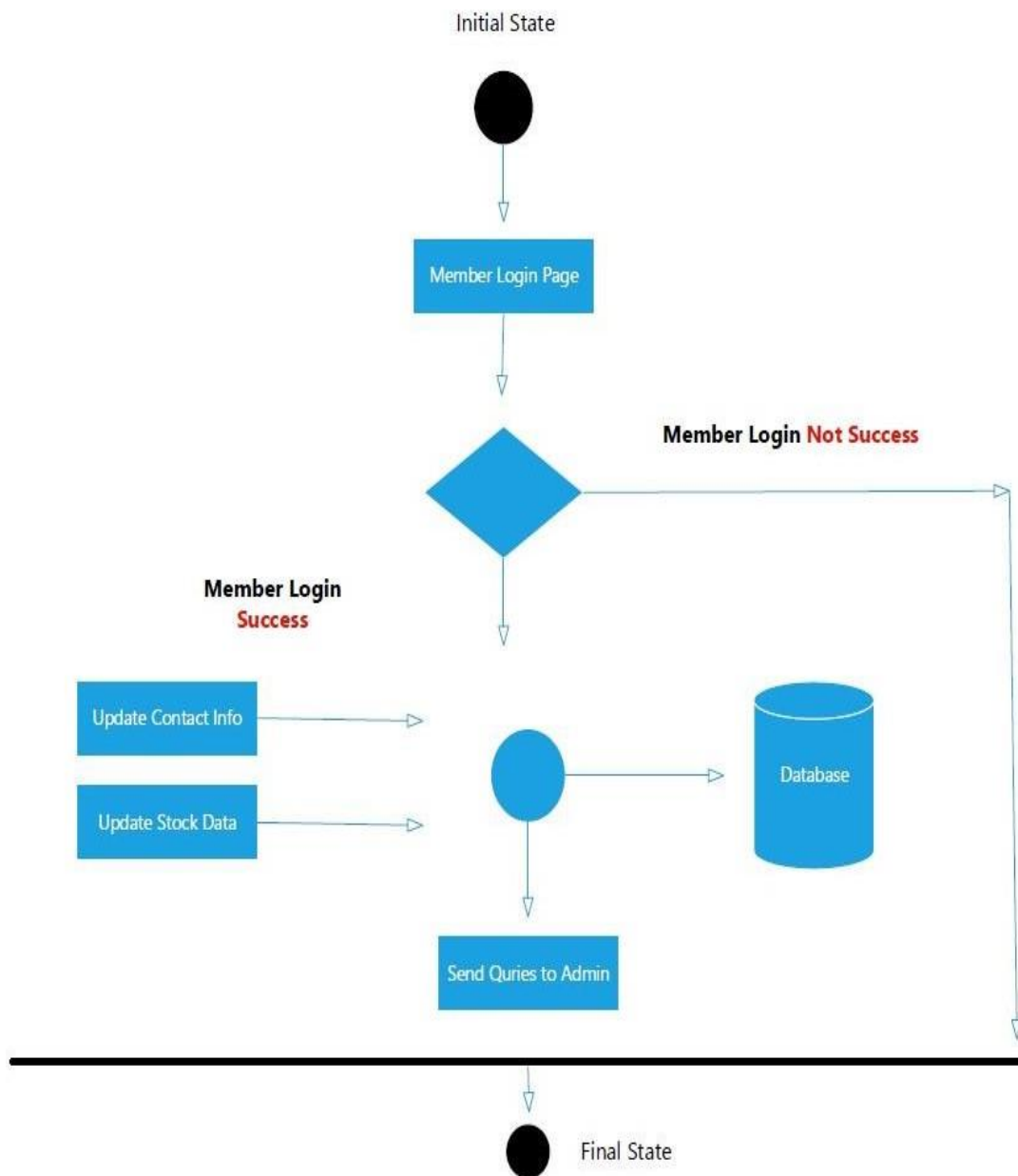


3.2.6 Level 1 (Data Flow Diagram)

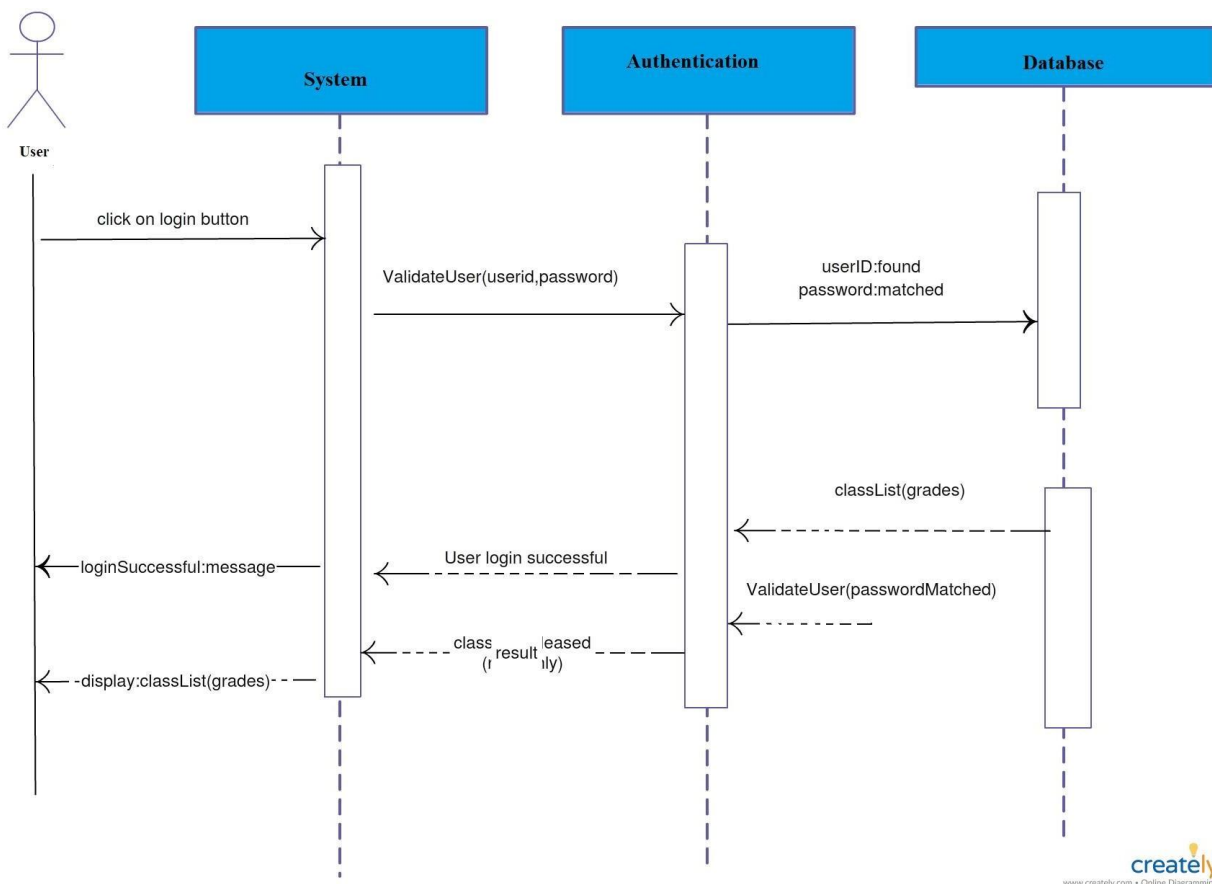
3.2.7 Activity Diagram for Admin



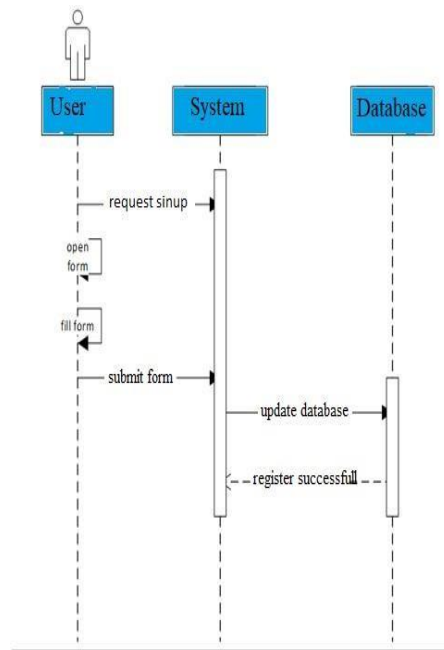
3.2.8 Activity Diagram for Medical Store Member



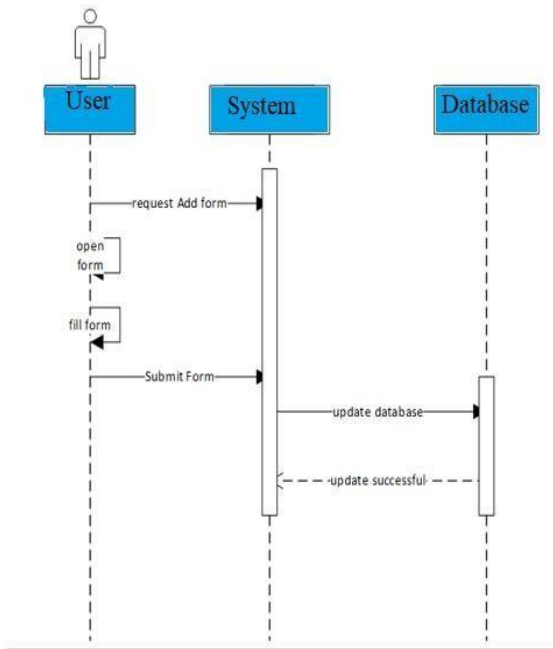
3.2.9 Login Sequence Diagram



3.2.10 Sign up Sequence Diagram

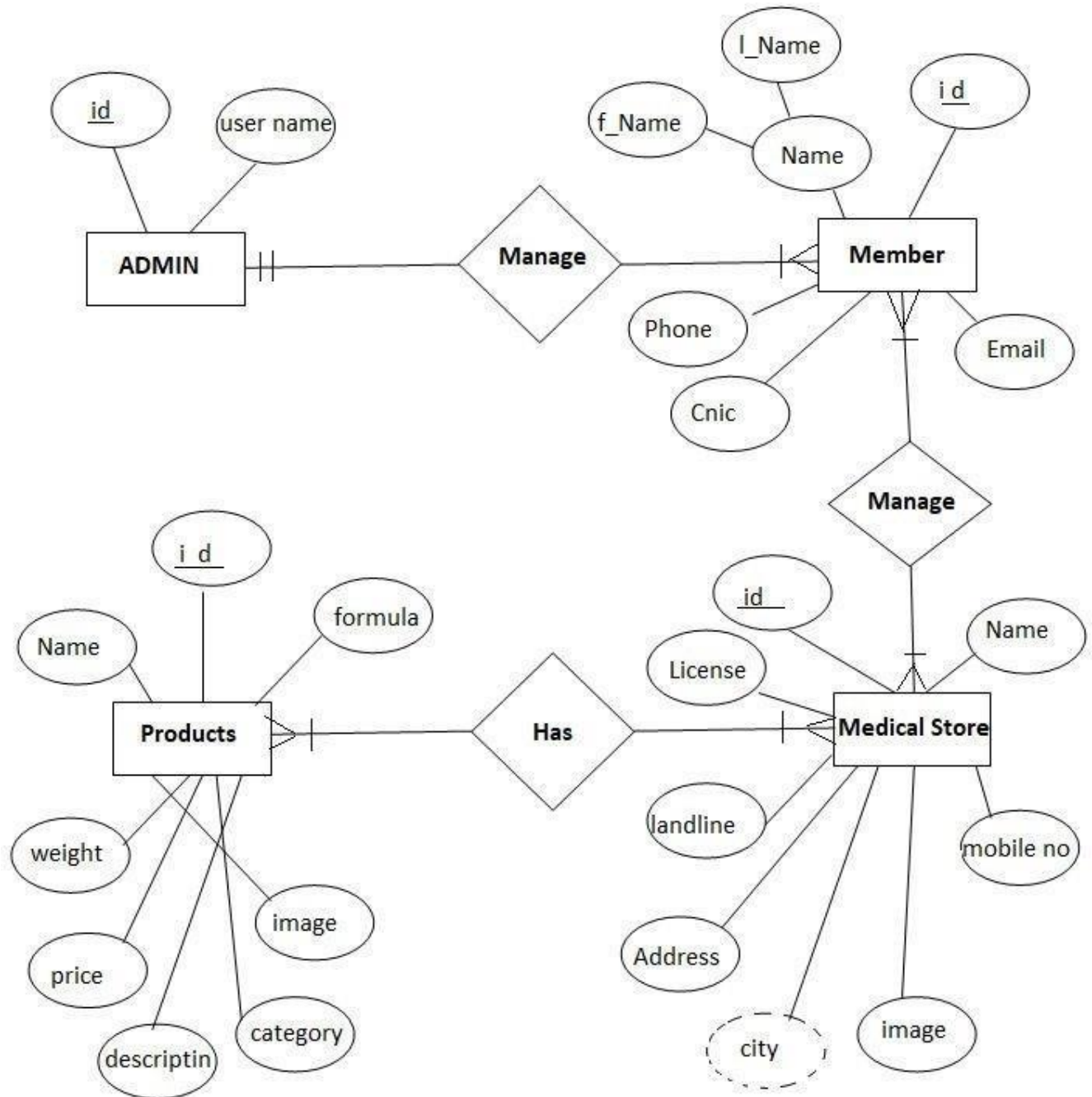


3.2.11 Add Medicine Sequence Diagram



3.3 Design Rationale

3.3.1 ER Diagram



3.4 Data Description

Table_User

```

1 CREATE TABLE [dbo].[AspNetUsers] (
2     [Id] NVARCHAR (128) NOT NULL,
3     [FirstName] NVARCHAR (50) NOT NULL,
4     [LastName] NVARCHAR (50) NOT NULL,
5     [phone] NVARCHAR (MAX) NULL,
6     [CNIC] NVARCHAR (MAX) NULL,
7     [Email] NVARCHAR (256) NULL,
8     [EmailConfirmed] BIT NOT NULL,
9     [PasswordHash] NVARCHAR (MAX) NULL,
10    [SecurityStamp] NVARCHAR (MAX) NULL,
11    [PhoneNumber] NVARCHAR (MAX) NULL,
12    [PhoneNumberConfirmed] BIT NOT NULL,
13    [TwoFactorEnabled] BIT NOT NULL,
14    [LockoutEndDateUtc] DATETIME NULL,
15    [LockoutEnabled] BIT NOT NULL,
16    [AccessFailedCount] INT NOT NULL,
17    [UserName] NVARCHAR (256) NOT NULL,
18    CONSTRAINT [PK_dbo.AspNetUsers] PRIMARY KEY CLUSTERED ([Id] ASC)
19 );
20
21
22 GO
23 CREATE UNIQUE NONCLUSTERED INDEX [UserNameIndex]
24 ON [dbo].[AspNetUsers]([UserName] ASC);
25
26

```

Table_Product

```

1 CREATE TABLE [dbo].[Products] (
2     [ID] INT IDENTITY (1, 1) NOT NULL,
3     [ProductName] NVARCHAR (MAX) NOT NULL,
4     [ProductFormula] NVARCHAR (MAX) NOT NULL,
5     [Productweight] NVARCHAR (MAX) NOT NULL,
6     [Price] DECIMAL (18, 2) NOT NULL,
7     [Description] NVARCHAR (MAX) NOT NULL,
8     [Category] NVARCHAR (MAX) NOT NULL,
9     [productImage] NVARCHAR (MAX) NULL,
10    [MedicalStoreID] INT NULL,
11    CONSTRAINT [PK_dbo.Products] PRIMARY KEY CLUSTERED ([ID] ASC),
12    CONSTRAINT [FK_dbo.Products_dbo.MadicalStores_MadicalStoreID] FOREIGN KEY ([MedicalStoreID]) REFERENCES [dbo].[MadicalStores] (
13 );
14
15
16 GO
17 CREATE NONCLUSTERED INDEX [IX_MadicalStoreID]
18 ON [dbo].[Products]([MedicalStoreID] ASC);
19
20

```

Table_Roles

```

1 CREATE TABLE [dbo].[AspNetRoles] (
2     [Id] NVARCHAR (128) NOT NULL,
3     [Name] NVARCHAR (256) NOT NULL,
4     CONSTRAINT [PK_dbo.AspNetRoles] PRIMARY KEY CLUSTERED ([Id] ASC)
5 );
6
7
8 GO
9 CREATE UNIQUE NONCLUSTERED INDEX [RoleNameIndex]
10 ON [dbo].[AspNetRoles]([Name] ASC);
11
12

```

Table_Medical Store


```
1 CREATE TABLE [dbo].[MadicalStores] (  
2     [MadicalStoreID] INT IDENTITY (1, 1) NOT NULL,  
3     [Name] NVARCHAR (MAX) NULL,  
4     [MobileNo] NVARCHAR (MAX) NULL,  
5     [StoreName] NVARCHAR (MAX) NULL,  
6     [StoreLicense] NVARCHAR (MAX) NULL,  
7     [City] NVARCHAR (MAX) NULL,  
8     [LandLine] NVARCHAR (MAX) NULL,  
9     [StoreAddress] NVARCHAR (MAX) NULL,  
10    [userid] NVARCHAR (MAX) NULL,  
11    [StoreImage] NVARCHAR (MAX) NULL,  
12    CONSTRAINT [PK_dbo.MadicalStores] PRIMARY KEY CLUSTERED ([MadicalStoreID] ASC)  
13 );  
14  
15
```

3.5 Data Dictionary


Table_User

	Name	Data Type	Allo
	Id	nvarchar(128)	
	FirstName	nvarchar(50)	
	LastName	nvarchar(50)	
	phone	nvarchar(MAX)	
	CNIC	nvarchar(MAX)	
	Email	nvarchar(256)	
	EmailConfirmed	bit	
	PasswordHash	nvarchar(MAX)	
	SecurityStamp	nvarchar(MAX)	
	PhoneNumber	nvarchar(MAX)	
	PhoneNumberConfirmed	bit	
	TwoFactorEnabled	bit	
	LockoutEndDateUtc	datetime	
	LockoutEnabled	bit	
	AccessFailedCount	int	
	UserName	nvarchar(256)	

Table_Product

	Name	Data Type
	ID	int
	ProducName	nvarchar(MAX)
	Producformula	nvarchar(MAX)
	Productweight	nvarchar(MAX)
	Price	decimal(18,2)
	Description	nvarchar(MAX)
	Category	nvarchar(MAX)
	productImage	nvarchar(MAX)
	MadicalStoreID	int

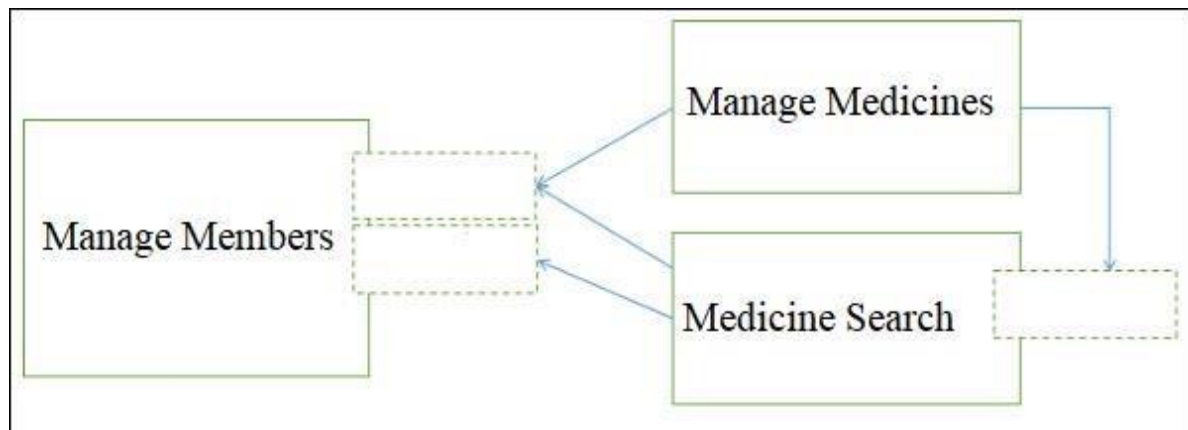
Table_Roles

	Name	Data Type
	Id	nvarchar(128)
	Name	nvarchar(256)

Table_Medical Store

	Name	Data Type
PK	MadicalStoreID	int
	Name	nvarchar(MAX)
	MobileNo	nvarchar(MAX)
	StoreName	nvarchar(MAX)
	StoreLicense	nvarchar(MAX)
	City	nvarchar(MAX)
	LandLine	nvarchar(MAX)
	StoreAddress	nvarchar(MAX)
	userid	nvarchar(MAX)
	StoreImage	nvarchar(MAX)

3.6 Component Design



Chapter 4

Implementation and Testing

4.1 Code Modules

- **Registration Activity**

Registration Activity Store the Information in the database of the user such as user name ,user email, user password ,user mobile number .

- **Login Activity**

Login Activity Authenticate the Information from the database of the user such as user email, user password.

- **Reset Password Activity**

Reset Password Activity Authenticate the Information from the database of the user such as user email and send the reset password to user email .

- **Add Medicine Activity**

In this activity register user can add medicine on the portal which will be visible on visitors page.

- **Search Medicine Activity**

In this activity visitor will be able to find his/her desire medicine by formula, name, company and put filter by area.

- **Block Member Activity**

In this activity admin will be able to block a member who will violate the policies.

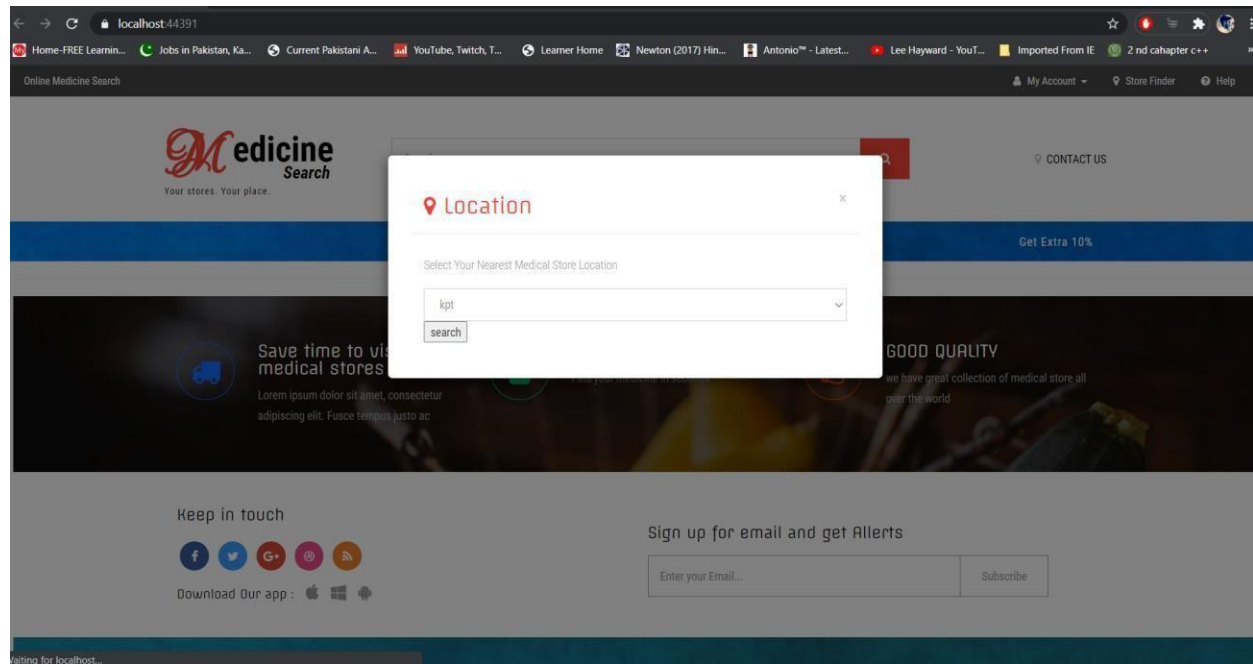
4.2 Database Connectivity

- Database Microsoft SQL is used, for query entity framework is used and LINQ is used for retrieving data from DB.
- We will connect our application to database by establishing connection string of database server in web.config and we will execute quires by context classes of c#.

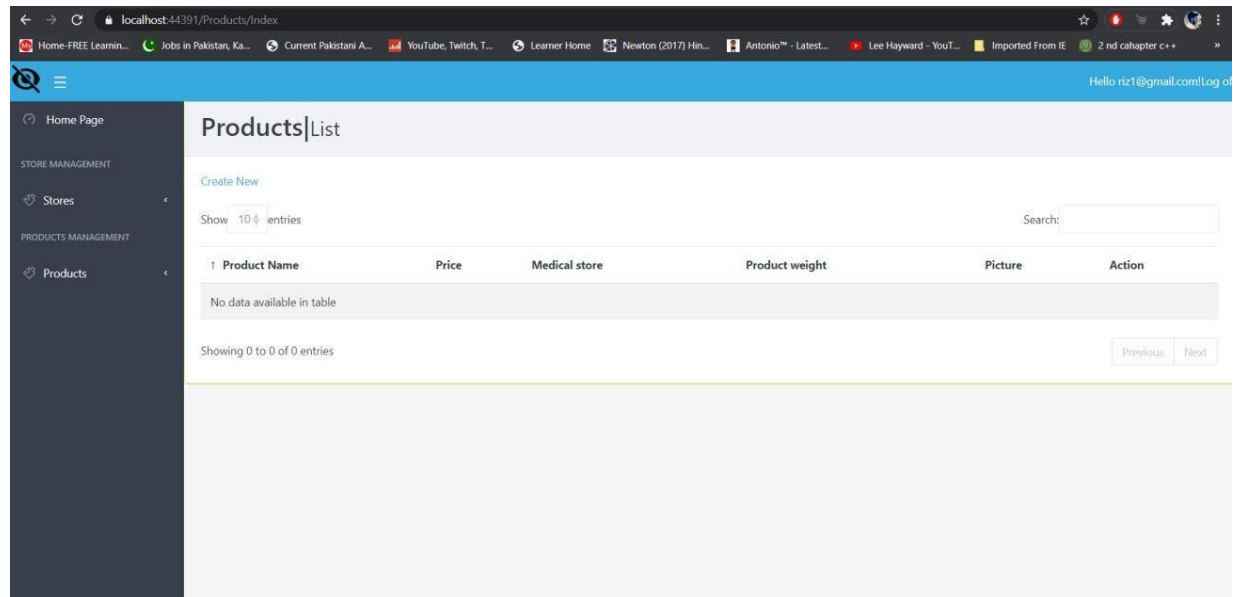
4.3 Overview of User Interface

All screens and mockup will be user friendly. This interface will include learning ability as much as possible. We will create UI by using HTML, CSS, Bootstrap and Adobe Photoshop.

4.4 Screen Images



4.5 Screen Objects and Actions



Online Medicine Search

able Here.....

Register

Email

Password

Confirm password

First Name

Last Name

phone

CNIC

Create

4.6 Test Cases

4.6.1 Test Case of Registration (Success)

Screen Name	Registration Screen
Test Case ID	TC:01
Engineer	M. Wasif Rehan
Application Name	Online Medicine Search
Testing Cycle	01
Scenario	Check Registration functionality
Environment	Web Browser Microsoft SQL server
Pre-Requisite	No
Strategy	Click On Exe File
Expected Result	Dashboard will Display
Observations	Screen width may be ask to you in case of running by exe file
Result	NO bug on Registration Screen

4.6.2 Test Case of Registration (Empty fields)

Screen Name	Registration Screen
Test Case ID	TC:02
Engineer	M. Wasif Rehan
Application Name	Online Medicine Search
Testing Cycle	01
Scenario	Check Registration functionality
Environment	Web Browser Microsoft SQL server
Pre-Requisite	No
Strategy	Click On Exe File
Expected Result	Dashboard will Display
Observations	Screen width may be ask to you in case of running by exe file
Result	Error message fill required fields

4.6.3 Test Case of Registration (Fail)

Screen Name	Registration Screen
Test Case ID	TC:03
Engineer	M. Wasif Rehan
Application Name	Online Medicine Search
Testing Cycle	01
Scenario	Check Registration functionality
Environment	Web Browser Microsoft SQL server
Pre-Requisite	No
Strategy	Click On Exe File
Expected Result	Dashboard will Display
Observations	Screen width may be ask to you in case of running by exe file
Result	Data not save in database due to technical issue

4.6.4 Test Case of Login (Login Success)

Screen Name	Login Screen
Test Case ID	TC:01
Engineer	M. Wasif Rehan
Application Name	Online Medicine Search
Testing Cycle	01
Scenario	Checking login functionality
Environment	Web Browser Microsoft SQL server
Pre-Requisite	No
Strategy	Click On Exe File
Expected Result	Admin Screen Will Display
Observations	Screen width may be ask to you in case of running by exe file
Result	NO bug on Login Screen

4.6.5 Test Case of Login (Empty fields)

Screen Name	Login Screen
Test Case ID	TC:02
Engineer	M. Wasif Rehan
Application Name	Online Medicine Search
Testing Cycle	01
Scenario	Checking login functionality
Environment	Web Browser Microsoft SQL server
Pre-Requisite	No
Strategy	Click On Exe File
Expected Result	Admin Screen Will Display
Observations	Screen width may be ask to you in case of running by exe file
Result	Error message fill the required fields

4.6.6 Test Case of Login (Login failed)

Screen Name	Login Screen
Test Case ID	TC:03
Engineer	M. Wasif Rehan
Application Name	Online Medicine Search
Testing Cycle	01
Scenario	Checking login functionality
Environment	Web Browser Microsoft SQL server
Pre-Requisite	No
Strategy	Click On Exe File
Expected Result	Admin Screen Will Display
Observations	Screen width may be ask to you in case of running by exe file
Result	Invalid inputs

Online Medicine Search

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4.6.7 Test Case of Medicine Search (Success)

Screen Name	Home Screen
Test Case ID	TC:01
Engineer	M. Wasif Rehan
Application Name	Online Medicine Search
Testing Cycle	01
Scenario	Checking searching functionality
Environment	Web Browser Microsoft SQL server
Pre-Requisite	No
Strategy	Click On Exe File
Expected Result	Search Screen Will Display
Observations	Screen width may be ask to you in case of running by exe file
Result	Display search medicinde

4.6.8 Test Case of Medicine Search (Search bar empty)

Screen Name	Home Screen
Test Case ID	TC:02
Engineer	M. Wasif Rehan
Application Name	Online Medicine Search
Testing Cycle	01
Scenario	Search bar visible and button is shown
Environment	Web Browser Microsoft SQL server
Pre-Requisite	No
Strategy	Click On Exe File
Expected Result	Search Screen Will Display
Observations	Screen width may be ask to you in case of running by exe file
Result	Empty search bar

4.6.9 Test Case of Medicine Search (Data not found)

Screen Name	Home Screen
Test Case ID	TC:03
Engineer	M. Wasif Rehan
Application Name	Online Medicine Search
Testing Cycle	01
Scenario	Search bar visible and button is shown
Environment	Web Browser Microsoft SQL server
Pre-Requisite	No
Strategy	Click On Exe File
Expected Result	Search Screen Will Display
Observations	Screen width may be asking to you in case of running by exe file
Result	Display message Search not found

4.7 References

<https://www.tutorialspoint.com/asp.net/index.htm>

https://www.tutorialspoint.com/software_engineering/index.html