

A
Project Report
On
"Online Vehicle Booking System"

Submitted by
Mr. Om Ghodke (2263021)

Bsc(ECS)-III

Under the guidance of
Prof Birajdar.P.V



Department of Management & Computer Science
Sangameshwar College, Solapur
Autonomous



2022-2023

Sangameshwar College, Solapur

An Autonomous Institute Affiliated to PAHSUS

Reaccredited by NAAC with 'A' grade in Cycle III- 3.39 CGPA

Department of Computer Science

CERTIFICATE

This is to certify that

Name

Mr. Om Ghodke

Exam Seat no

Is student of Sangameshwar College have successfully completed a Project Report entitled "**Online Vehicle Booking System**" in partial fulfilment of Bachelor of Science (Entire Computer Science) as prescribed by Sangameshwar College (Autonomous), Solapur for the Academic Year 2022-2023.

S.S.E. SOCIETY

SOLAPUR

Project Guide
Prof Birajdar.P.V

External Examiner

Convenor
Prof Kodam N.B.

Director
Prof Kadadi J. J.

Declaration

I'm the undersigned student of Bsc(ECS)- III hereby declare that, the project report entitled

"Online Vehicle Booking System"

Written and submitted by me is my original work. The empirical binding in this report is based on the data collected by me, while preparing this project report.

Name of Student

Mr. Om Ghodke

Signature

Place :Solapur.

Date :

ACKNOWLEDGEMENT

It is a fortune to find opportunity to express my deep sense of gratitude to all those people who helped me with their guidance and assistance, without which the project would not be possible. Their contribution has been invaluable.

First, I would like to extend my heart-felt gratitude and respect, to our parents, who have always been a tremendous source of encouragement and inspiration for me.

Last but not the least, I would like to thank the Almighty without whose blessing, I would not have reached the goal.

Mr.Om Ghodke

Bsc(ECS)-III

PREFACE

The well planned, properly executed the utility titled **"Vehicle Booking System"** is being developed with the intent to reduce the workload for the Vehicle Showroom and also to keep the record of the vehicle booking and to reduce the paper work or registry work for the user. The purpose of this project is to build an web application program to reduce the manual work. It to eliminate the problems faced in the existing system. These projects have been developed using Visual Studio 2015. This is user friendly, easy to use, understandable and satisfies all user requirements.

There is no doubt that in spite of strenuous efforts, errors might remain in the text. We truly apologize for that.

INDEX

| SR. NO. | CHAPTER DETAILS | | PAGE NO. |
|---------|----------------------|------------------------|----------|
| | | | |
| 1 | INTRODUCTION | | 1-5 |
| | 1.1 | Project Overview | 1 |
| | 1.2 | Existing System | 2-3 |
| | 1.3 | Proposed system | 4 |
| | 1.4 | Scope of the Project | 5 |
| | | | |
| 2 | FEASIBILITY STUDY | | 6-7 |
| | 2.1 | Project Feasibility | 6 |
| | 2.2 | Hardware Specification | 7 |
| | 2.3 | Software Specification | 7 |
| | | | |
| 3 | SYSTEM DESIGN | | 8-20 |
| | 3.1 | DFD | 8-9 |
| | 3.2 | ERD | 10 |
| | 3.3 | Database Design | 11-13 |
| | 3.4 | Output Screen | 13-20 |
| | | | |
| 4 | IMPLEMENTATION | | 21-23 |
| | 4.1 | Code Script | 21-23 |
| | | | |
| 5 | TECHNOLOGY AND TOOLS | | 24-25 |
| | | | |
| 6 | FUTURE ENHANCEMENTS | | 26 |
| 7 | BIBLIOGRAPHY | | 27 |

1. INTRODUCTION

1.1 Project Overview (Abstract)

Online Vehicle Booking system is a web application. This is developed using asp.net, C#.Net in Visual Studio 2015. The "**Online Vehicle Booking System**" a web application is intended to provide complete solutions for

customers (Buyers) through a single gateway .

It will enable vendors to put their vehicles online for shopping, customer to browse through the System and purchase the vehicles online without having to visit the showroom physically.

If users fails to find the vehicle of their choice they can put their request, whenever vehicle of their choice is available they will book the vehicle. The system also provides the facility of advertisements and discussion forum as well.

Objectives:

1. Helps to define your Vehicle Booking Course & User friendly Environment.
2. Help to define your Vehicle Booking Assessment.
3. Faster, Anywhere & Anytime You can use.

1.2 Existing System:

In the existing scenario, if someone has to buy a Vehicle or even interested in buying any Vehicle, then the person has to go to the showroom. Not only once, but everytime, whenever he/she is looking for some fact, the only option left is to go to the showroom.

This is very time consuming and very hectic as well. Sometimes, the buyer even lost interest because of this practice.

Problems of Existing System:

1. Unauthorized Access: There is no way to restrict Unauthorized Access to the data except the files under lock & Key.

2. Time Consuming & Complicated: The System is Manual System, it takes a lot of time for the booking for example in its difficult to manage & keep the record of each customers. When large no. of customers arrives for booking, to maintain huge no. of customer on single place, lot of time & management is required to maintain difficult.

3. More Human Resource: As all the work done manual the data was not secured, it was difficult to track the record of Customer & Vehicle or Admin.

4. Redundancy & Inaccuracy: As data is maintained in different files & registers, there is possibility of losing data &

duplication data is stored thus wastage of storage space. Sometimes there may be wrong calculation in Result Generation. Existing System is not According to current Demand.

1.3 Proposed System:

The aim of proposed system is to develop a system of improved facilities. The proposed system can overcome the limitations of existing system. This System Requires Proper Security and reduces the manual Work. We provide a friendly user interface. Customer can book vehicle by sitting anywhere and whenever i.e. 24x7. Easy to maintain customer details and vehicle booking data reports. Users can create account just by the filling some basic information .After logging in users can select vehicle and explore the information and also request for vehicle booking as per need .After booking the vehicle users recives a receipt with bill and other details. Large volume of data can be stored. Less man power requires. Reduce paper work. Saves time and money. Proposed system is used to remove the problems of existing system & provides solution to problem & switch over a new systemthat covers all possible aspects.

Characteristic of Proposed System:

1. User Friendly: The proposed system is user friendly because the retrieval and storing of data is fast and data is maintained efficiently. Moreover the graphical user interface is provided in the proposed system which provides user to deal with the system very easily.

2. EasyAccess:-

Resolve The Complexity of Traditional System & Access Through All Materials Through GUI.

1.4 Scope Of Project :

- It can be implemented in Vehicle Showroom for vehicle booking purpose of customers.
- The user can access the information from any where through any device services by this Web Application.

2. FEASIBILITY STUDY

2.1 Project Feasibility

2.1.1 Operational Feasibility

Operational Feasibility is a measure of how well proposed system solves the problem and takes the advantages of opportunities. The system is completely operational and can be successfully implemented. "Online Vehicle Booking" project is easy to understand not only for sophisticated users but for the new users as well. It provides simple ambience in which user can feel free to work faster, easier & more accurately. Therefore, It can be socially and behaviourally accepted and is feasible too.

2.1.2 Technical Feasibility

The technical feasibility assessment is focused on gaining in understanding of present technical resources. The analyst must find out whether current technical resources can be upgraded or added to in manner that fulfills the request under consideration. "Online Vehicle Booking" project required computerized system, so that by the help of this person can do work quicker and easily. It is possible to develop the system using simple platform. All functions of a project for communication can be implemented in new system. Hence the system is technically feasible.

2.2 Hardware Requirement:

- ❖ Processor: - Intel Dual Core or above.
- ❖ Hard Disk: - 256GB or above.
- ❖ RAM: - 2GB or above.

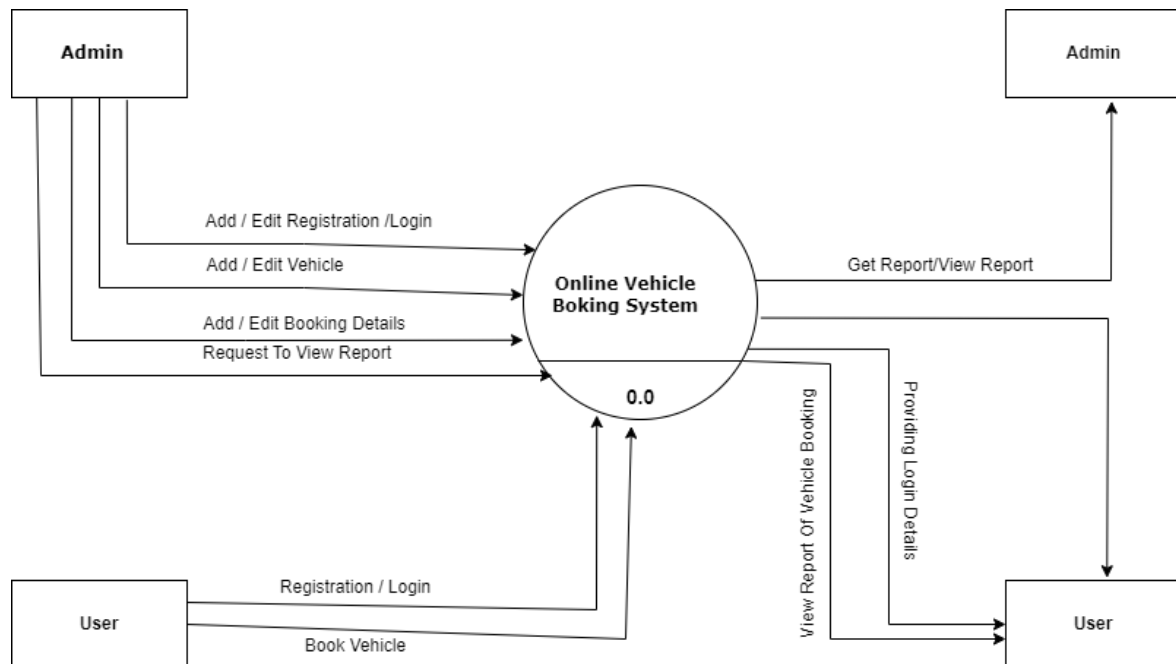
2.3 Software Requirement:

- ❖ Operating System: - Window 7 or above.
- ❖ Language used:- ASP.NET
- ❖ Database: - Microsoft SQL Server 2014
- ❖ Development Tool: - Visual Studio 2015

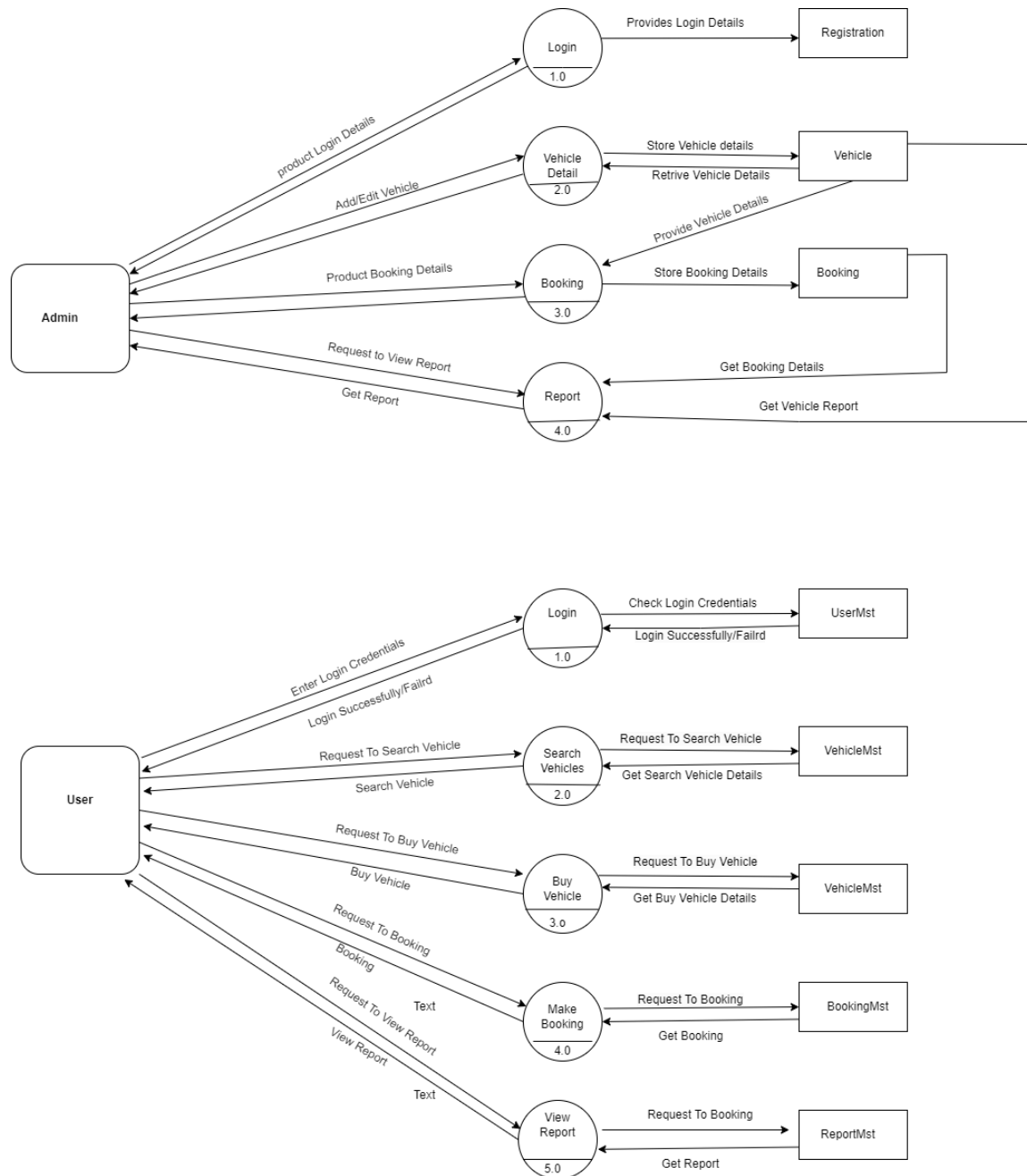
3. SYSTEM DESIGN

3.1 Data Flow Diagram (DFD)

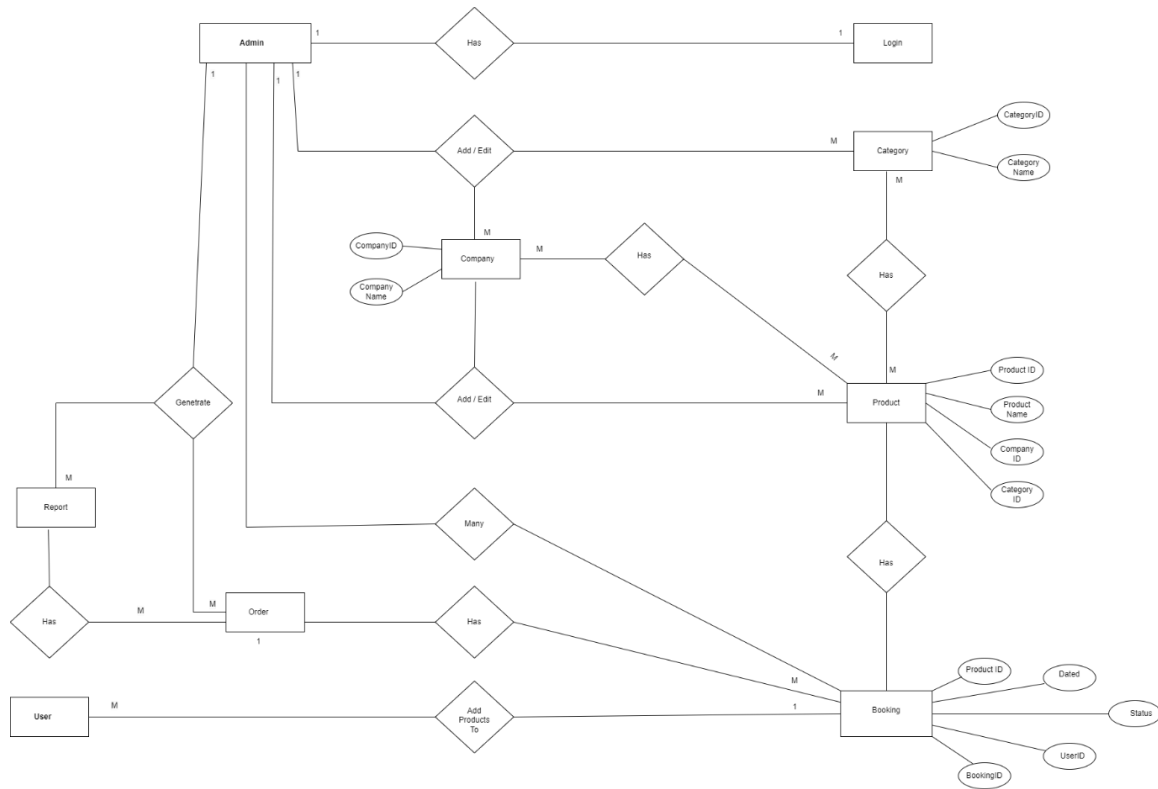
3.1.1 Context Level DFD



3.1.2 First Level DFD



3.2 Entity Relationship Diagram (ERD)



3.3 Database Design:-

1. Roles:

| column name | Datatype | constrain t | Allow null |
|-------------|-------------|----------------|------------|
| RoleID | Int | PK | No |
| RoleName | varchar(50) | | No |

2. Users:

| column name | Datatype | constrain t | Allow null |
|-------------|--------------|----------------|------------|
| UserName | varchar(100) | | No |
| UserID | Int | PK | No |
| UPassword | varchar(100) | | No |
| RoleID | Int | FK | No |
| FullName | varchar(100) | | No |
| SecQues | varchar(80) | | No |
| SecAns | varchar(80) | | No |
| Dated | Date | | No |
| Active | Bit | | No |

3. Category:

| column name | datatype | Constrain t | Allow null |
|-------------|--------------|----------------|------------|
| CatID | Int | PK | No |
| CatName | varchar(100) | | No |

4. Companies:

| column name | datatype | Constrain t | Allow null |
|-------------|--------------|----------------|------------|
| C_id | Int | PK | No |
| C_name | varchar(100) | | No |

5. Products:

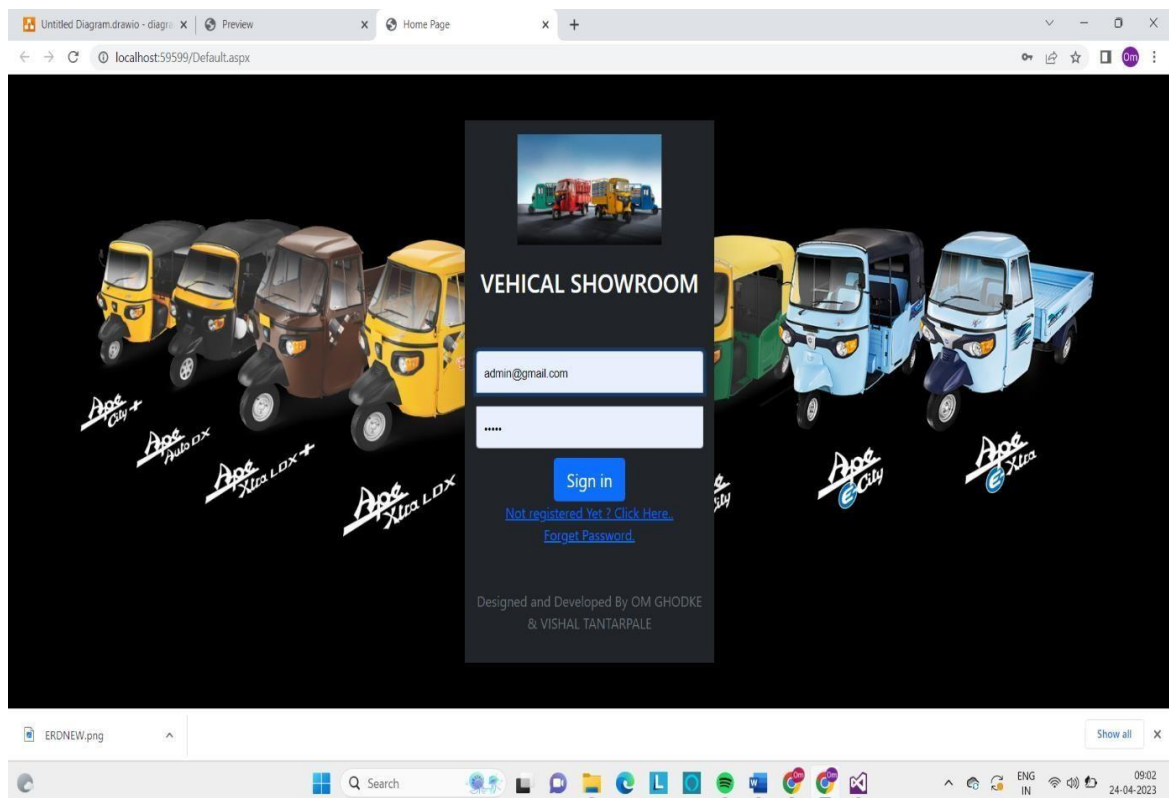
| column name | Datatype | Constraint | Allow null |
|-------------|--------------|------------|------------|
| ProductId | Int | PK | No |
| CatId | Int | FK | No |
| C_id | Int | FK | No |
| ProductName | varchar(100) | | No |
| Price | Float | | No |
| Picture | Int | | No |

6. Booking:

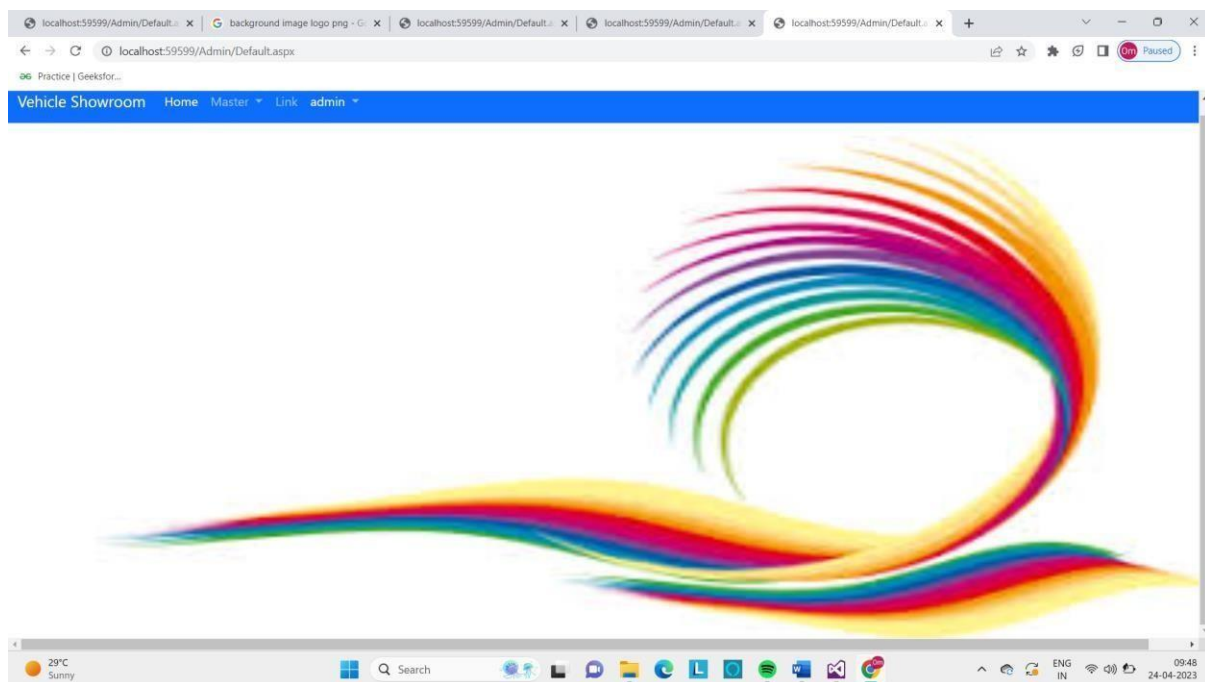
| column name | datatype | Constraint | Allow null |
|-------------|----------|------------|------------|
| BookId | Int | PK | No |
| UserID | Int | FK | No |
| ProductID | Int | FK | No |
| Dated | Date | | No |
| Status | Varchar | | No |

3.4 Output Screens :

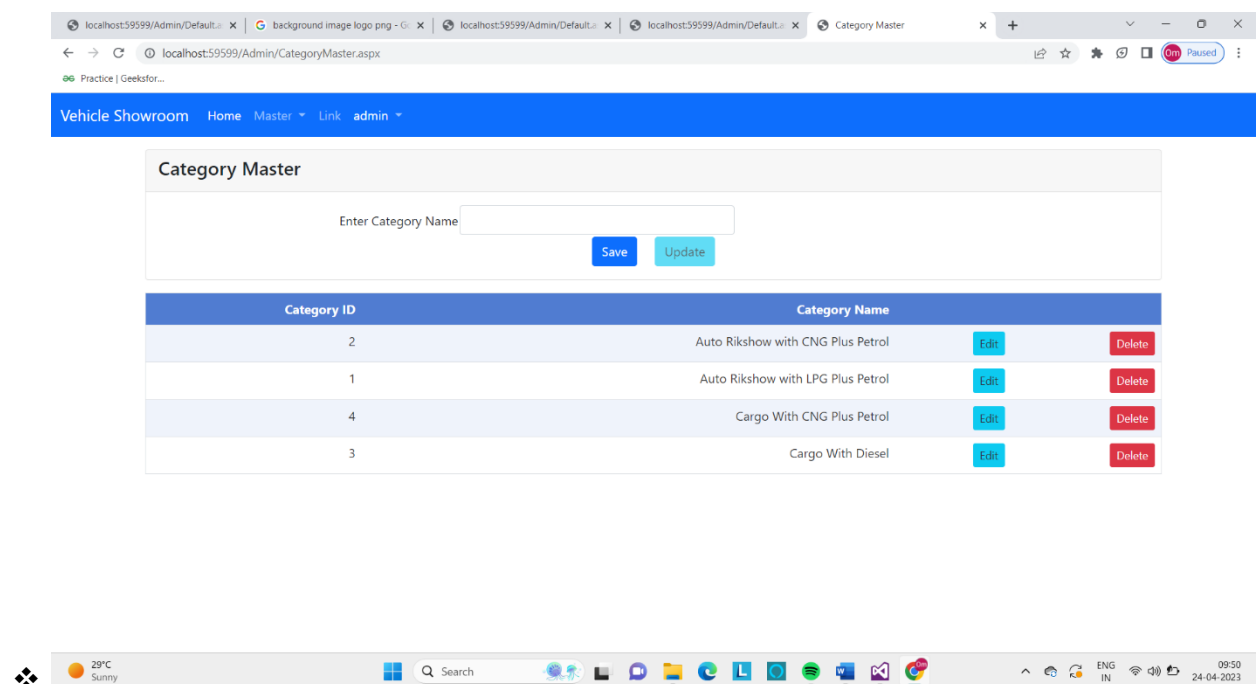
❖ Admin Login screen:



❖ Admin Home Page:



❖ Category Master:



❖ Company Master:


The screenshot shows a web browser window with multiple tabs. The active tab is 'localhost:59599/Admin/Company.aspx'. The page has a blue header with 'Vehicle Showroom' and navigation links: 'Home', 'Master', 'Link', and 'admin'. Below the header, there is a 'Company Master' section with a form to 'Enter Company Name' and 'Save' and 'Update' buttons. Below the form is a table listing companies.

| Company Id | Company Name | Edit | Delete |
|------------|--------------|----------------------|------------------------|
| 1 | Piaggio | Edit | Delete |
| 2 | Bajaj | Edit | Delete |

The Windows taskbar at the bottom shows the date as 24-04-2023 and time as 09:56.

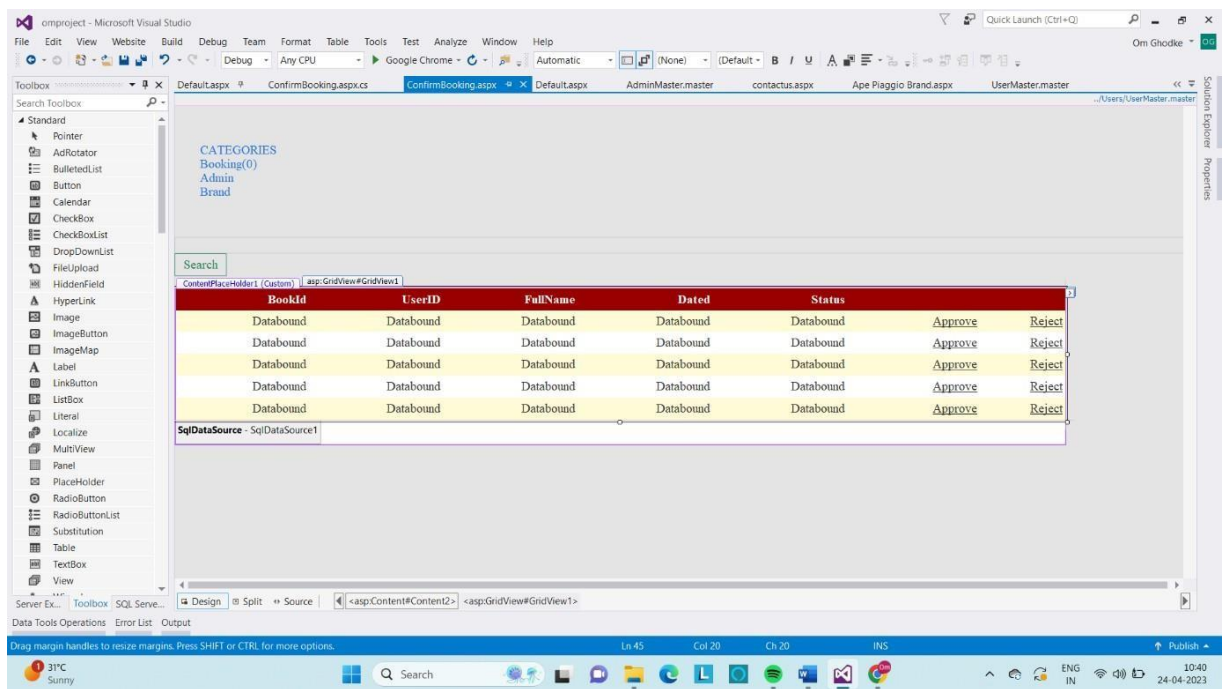
❖ Product Master:

The screenshot shows a web browser window with multiple tabs. The active tab is 'localhost:59599/Admin/product.aspx'. The page has a blue header with 'Vehicle Showroom' and navigation links: 'Home', 'Master', 'Link', and 'admin'. Below the header, there is a 'Product Master' section with a form to add or update a product. The form includes dropdowns for 'Select Category' (Auto Rikshaw with LPG Plus Petrol) and 'Select Company' (Piaggio), a text input for 'Enter Product Name' (APE CITY (LPG)), a text input for 'Enter Price' (264111), and a file upload section for 'Product Picture' (Choose File, No file chosen). There are 'Save' and 'Update' buttons. Below the form is a table listing products.

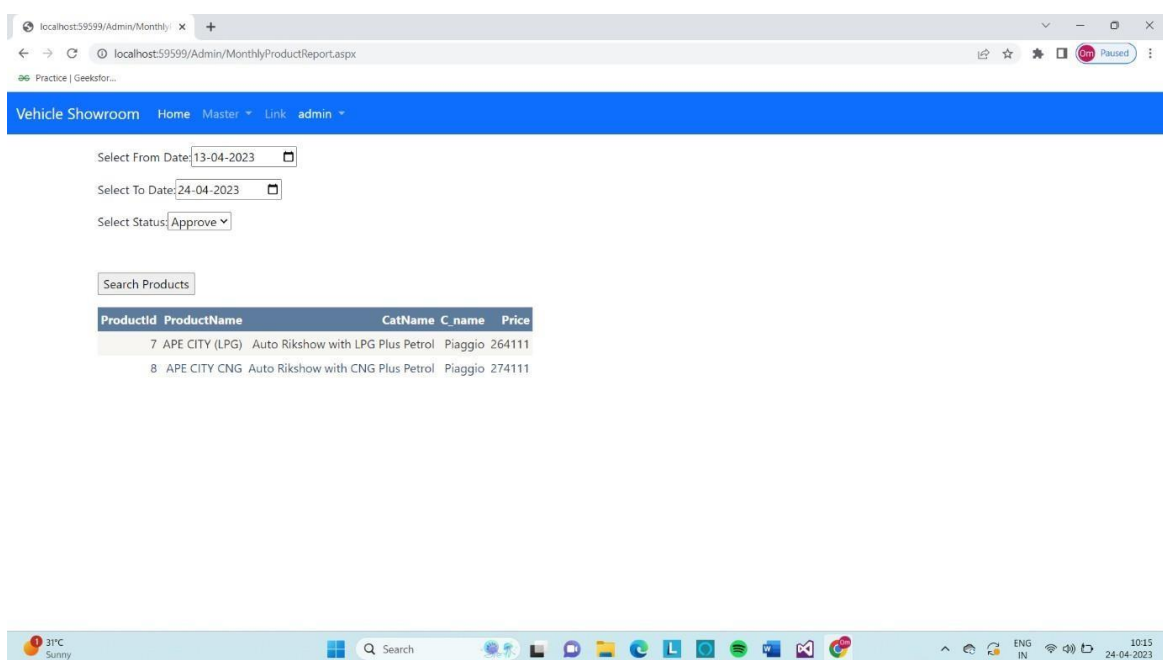
| ProductId | CategoryName | CompanyName | ProductName | Price | Picture |
|-----------|-----------------------------------|-------------|----------------|--------|--|
| 7 | Auto Rikshaw with LPG Plus Petrol | Piaggio | APE CITY (LPG) | 264111 |  Edit |

The Windows taskbar at the bottom shows the date as 24-04-2023 and time as 09:57.

❖ Confirm Booking:



❖ Monthly Report:



❖ User Registration:

USER REGISTRATION PAGE

Enter Full Name:

Enter Email :

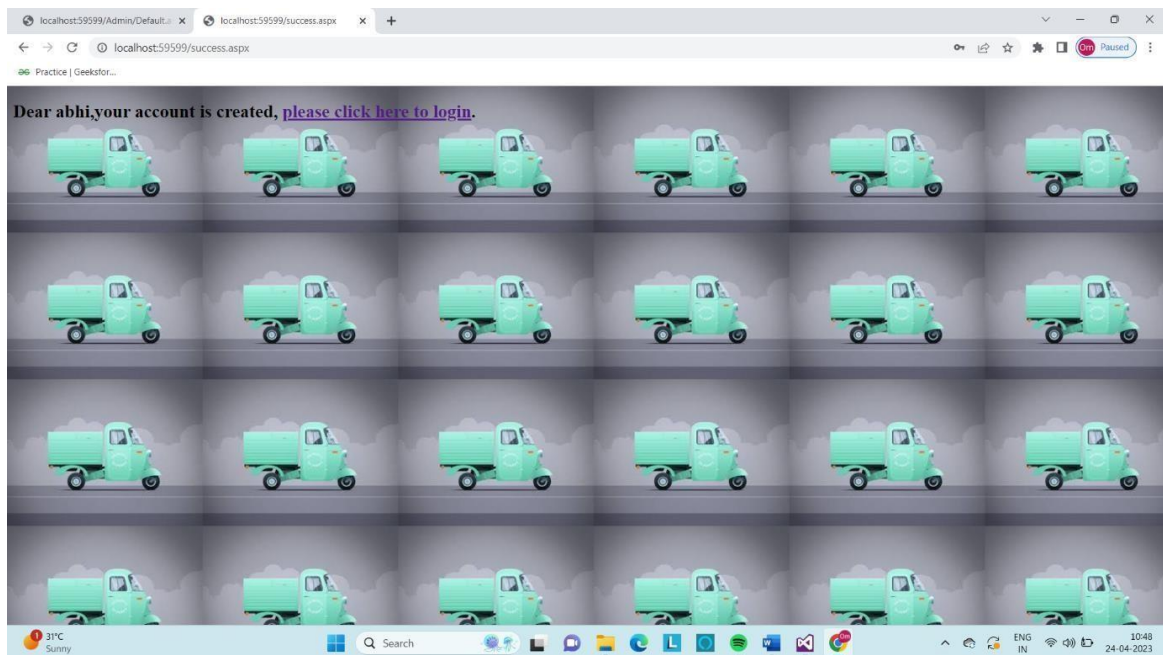
Enter Password :

Enter Confirm Password:

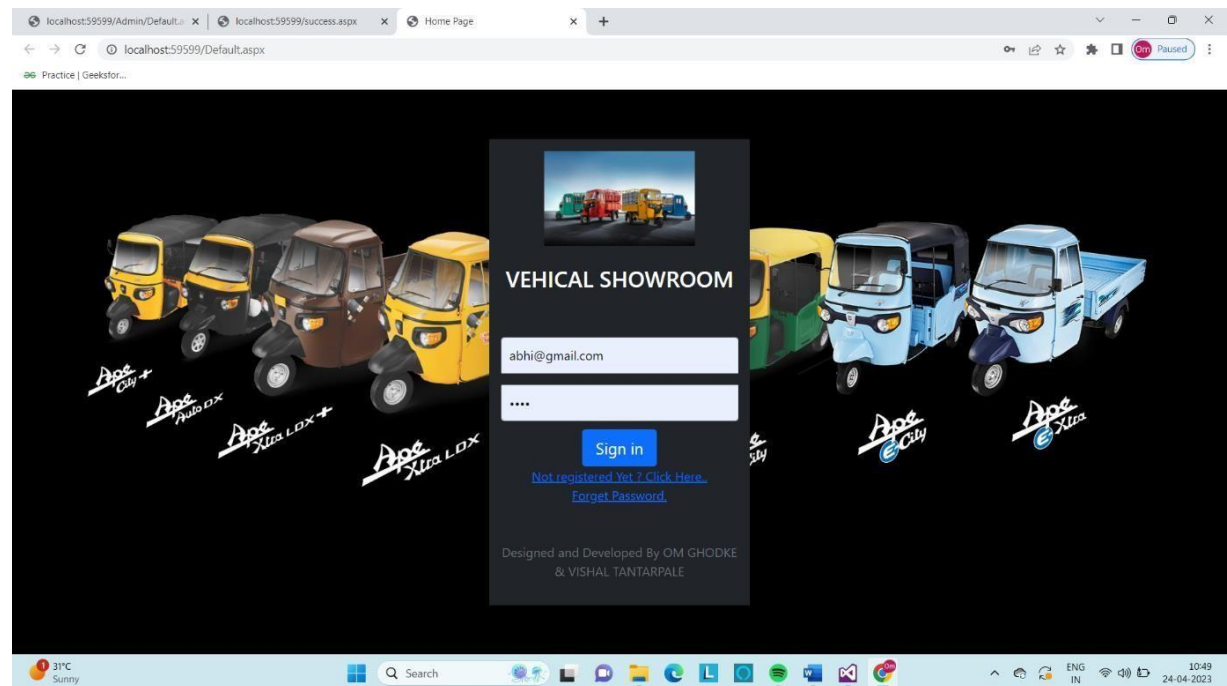
Select Security Que:

Answer:

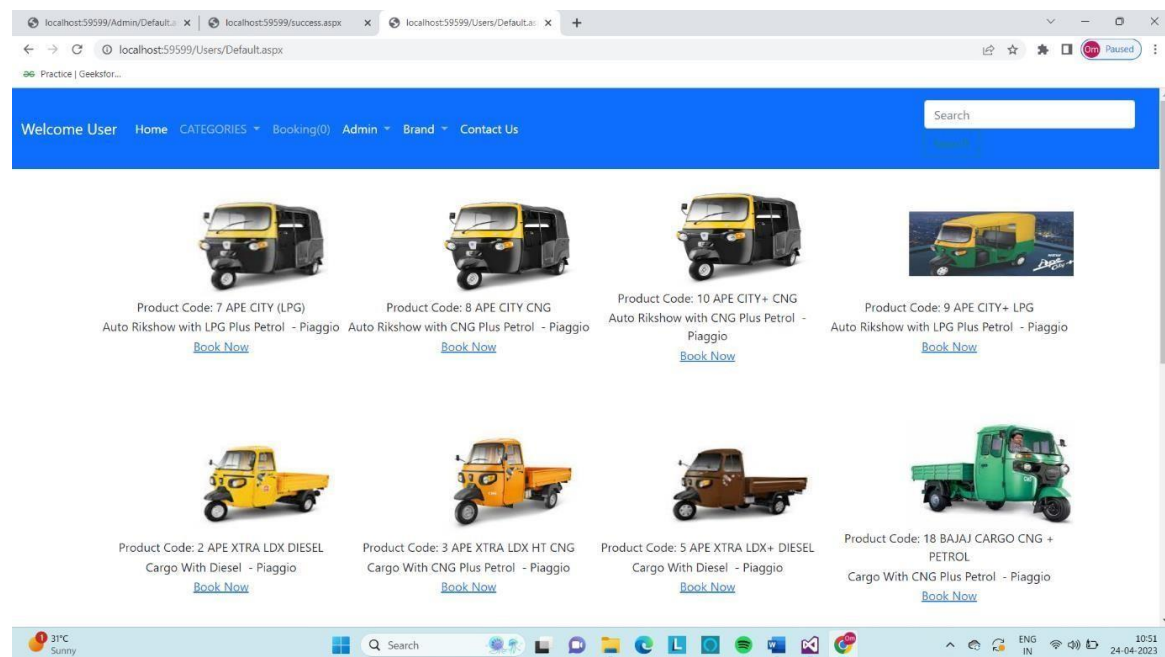
❖ Account Creation Success:



❖ User Login:



❖ User Home Page:



❖ User Booking:

localhost:59599/Admin/Default... | localhost:59599/success.aspx | localhost:59599/Users/CartDetail | +

localhost:59599/Users/CartDetails.aspx

Practice | Geeksfor...

Welcome User Home CATEGORIES Booking(3) Admin Brand Contact Us

Search

| BookId | Picture | ProductName | C_name | CatName | Price |
|--------|---------|--------------------------|---------|-----------------------------------|-------------------------------|
| 28 | | APE CITY (LPG) | Piaggio | Auto Rikshow with LPG Plus Petrol | 264111 Remove |
| 29 | | APE XTRA LDX HT CNG | Piaggio | Cargo With CNG Plus Petrol | 319211 Remove |
| 30 | | BAJAJ CARGO CNG + PETROL | Piaggio | Cargo With CNG Plus Petrol | 357111 Remove |

Total Amount: 940433

[Checkout](#)

31°C Sunny Search ENG IN 10:51 24-04-2023

❖ Booking Confirmation:

localhost:59599/Admin/Default... | localhost:59599/success.aspx | localhost:59599/Users/CartDetail | localhost:59599/Users/success.aspx | +

localhost:59599/Users/success.aspx

Practice | Geeksfor...

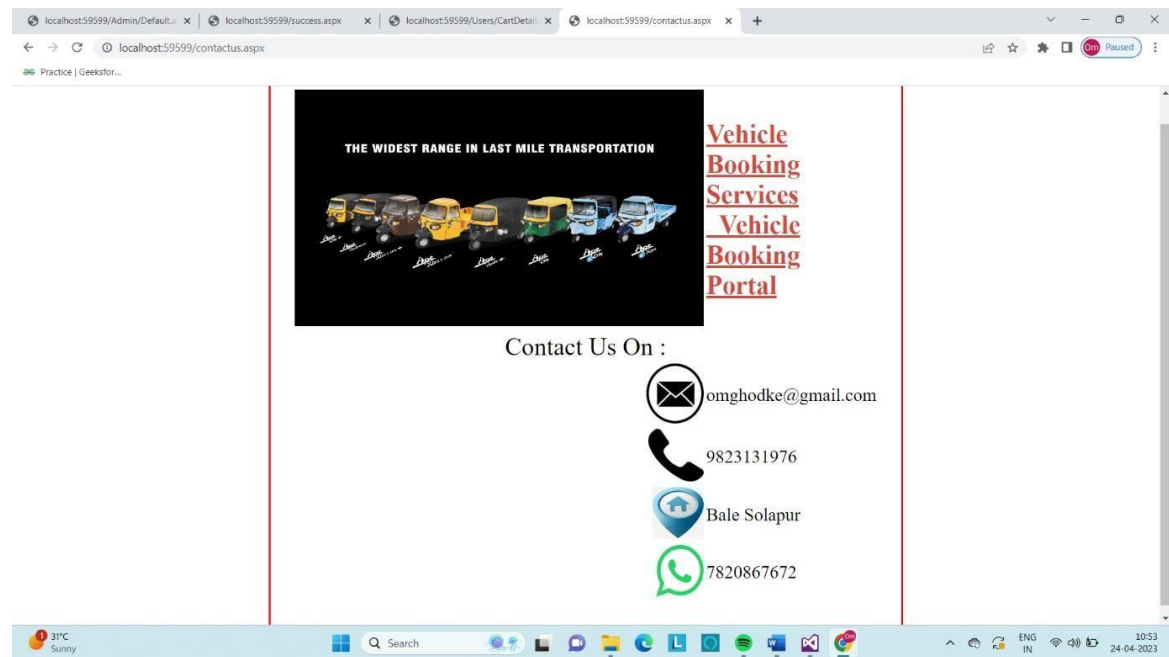
Welcome User Home CATEGORIES Booking(3) Admin Brand Contact Us

Search

Your Order Booked Successfully!!!

31°C Sunny Search ENG IN 10:52 24-04-2023

❖ Contact Us:



4. IMPLEMENTATION

➤ Code Script :-

```
using System;
using
System.Collections.Generic;
using System.Linq;
using System.Web;
using
System.Web.UI;
using
System.Web.UI.WebControls;
using System.Data;

public partial class _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {

    }

    protected void btnSignIn_Click(object sender, EventArgs e)
    {
        lblMsg.CssClass = "alert alert-danger col-md-
12";try
        {
            string          strcmd          =          "select
UserID,UPassword,RoleID,FullName,Active from " +
            " Users where UserName='" + txtEmail.Text
            +          "'";          DataTable          dt          =
            SQLHelper.FillData(strcmd);
            if(dt.Rows.Count>0)
            {
                bool          isActive          =
                (bool)dt.Rows[0]["Active"];if(isActive)
                {
                    string strPassword
                    =
                    dt.Rows[0]["UPassword"].ToString();
                    if(txtPassword.Text==strPassword)
                    {
```

```
        Session["RoleID"] = dt.Rows[0]["RoleID"].ToString();
        Session["UserID"] = dt.Rows[0]["UserID"].ToString();
        Session["FullName"] = dt.Rows[0]["FullName"].ToString();

        if (Session["RoleID"].ToString() == "1")
        {
            //admin
```

```
Response.Redirect("~/Admin/Default.aspx");
    }
    else
    {
Response.Redirect("~/Users/Default.aspx");
    }
    }
    else
    {
        lblMsg.Text = "Invalid Password !!!";
    }
    }
    else
    {
        lblMsg.Text = "Account is suspended.";
    }
    }
    else
    {
        lblMsg.Text = "Invalid Username !!!";
    }
    }
}
catch (Exception ex)
{
    throw ex;
}
}
}
```

5.Technology and Tools:

1.Visual studio 2015

Visual Studio 2015 is an Integrated Development Environment (IDE) developed by Microsoft. It is used to develop applications for Windows, web, mobile, and cloud platforms. The system requirements for Visual Studio 2015 include Windows 7 Service Pack 1 or later, Windows Server 2008 R2 SP1 or later, and .NET Framework 4.6.1 or later .Visual Studio 2015 includes a variety of programming languages such as C++, C#, F#, Visual Basic, and JavaScript, among others. It includes features such as IntelliSense, a code editor, debugging tools, code refactoring, and a variety of other productivity-enhancing tools .Visual Studio 2015 is available in three different editions: Community, Professional, and Enterprise. The Community edition is free for individual developers, while the Professional and Enterprise editions are intended for larger teams and organizations.

2.Microsoft SQL Server 2014

Microsoft SQL Server 2014 is a relational database management system (RDBMS) developed by Microsoft Corporation .SQL Server 2014 comes in various editions, including Enterprise, Standard, Business Intelligence, and Express.

Each edition has different features and limitations .SQL Server 2014 supports a variety of programming languages and platforms, including SQL, Transact-SQL (T-SQL), .NET

Framework, and Java .It includes tools for database management, such as SQL Server Management Studio (SSMS) and SQL Server Data Tools (SSDT), which provide a comprehensive environment for database development, management, and deployment.

6. **Future Enhancements:**

- ❖ Improved search functionality: Add a more robust search functionality that allows users to filter by vehicles, booking and other attributes.
- ❖ An advanced payment system like cards, UPI transaction , net banking, etc may be added.

7. Bibliography and References:

- www.javatpoint.com
- <https://getbootstrap.com>
- www.c-sharpcorner.com