

A
Project Report
On
"Online Vehicle Booking System"

Submitted by

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Bsc(ECS)-III

Under the guidance of
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Sangameshwar College, Solapur
Autonomous



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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
Mr. VishalTantarpale

Exam Seat no

Are students 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.

Project Guide
Prof Birajdar.P.V

External Examiner

Convenor
Prof Kodam N.B.

Director
Prof Kadadi J. J.

Declaration

We are the undersigned student of Bsc(ECS)– III hereby declare that, the project report entitled

“Online Vehicle Booking System”

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

Name of Students

Signature

Mr. Om Ghodke
Mr.Vishal Tantarpale

Place :Solapur.

Date :

ACKNOWLEDGEMENT

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

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

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

Mr.Om Ghodke
Mr.Vishal Tantarpale

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.

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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.

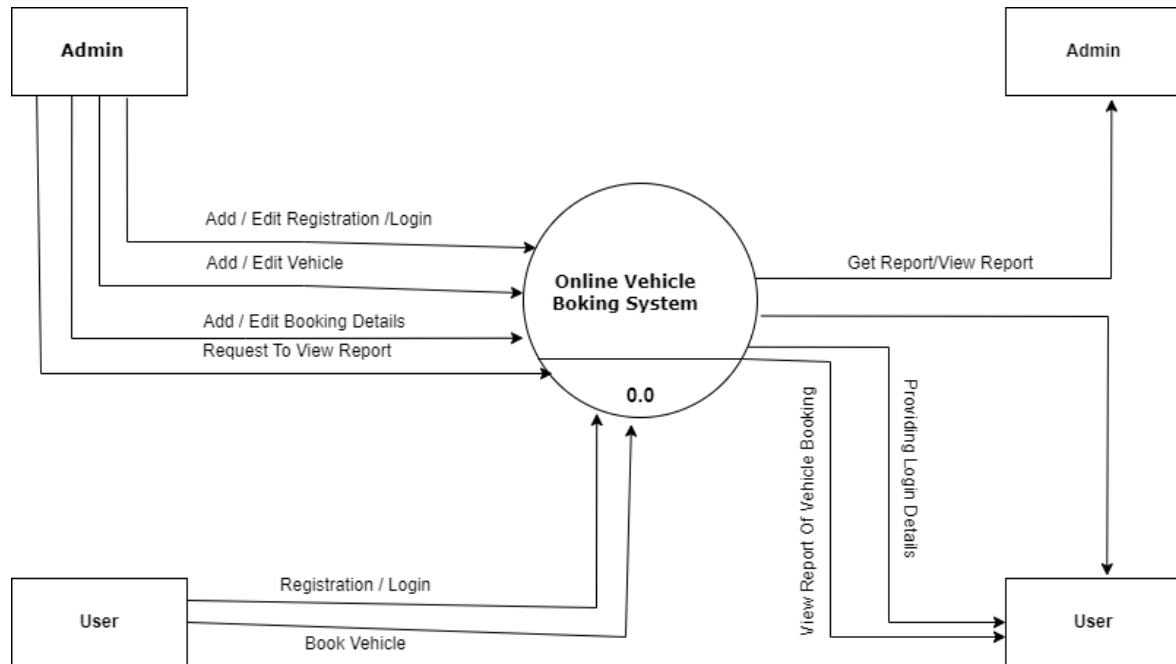
2.3 Software Requirement:

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

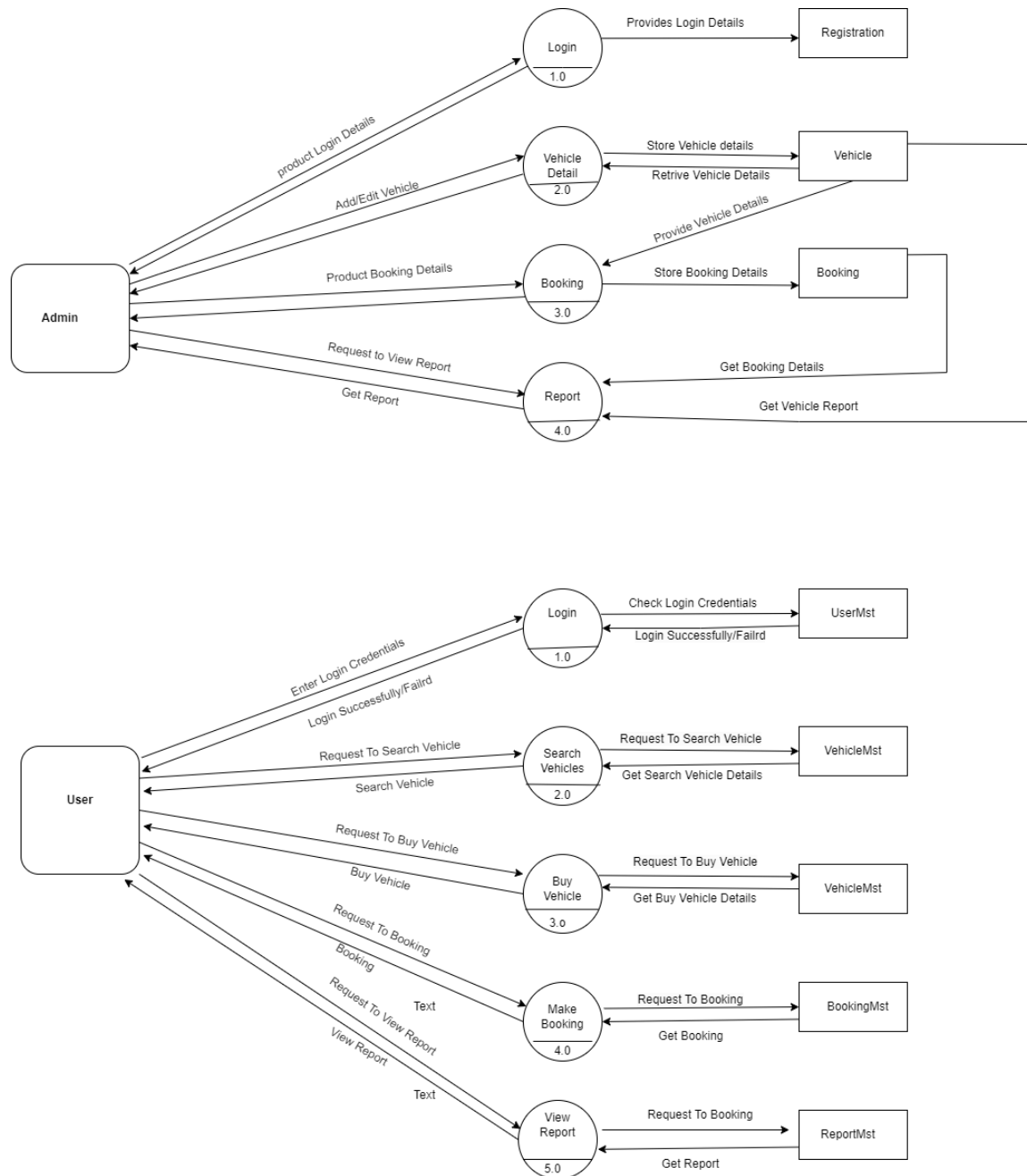
3. SYSTEM DESIGN

3.1 Data Flow Diagram (DFD)

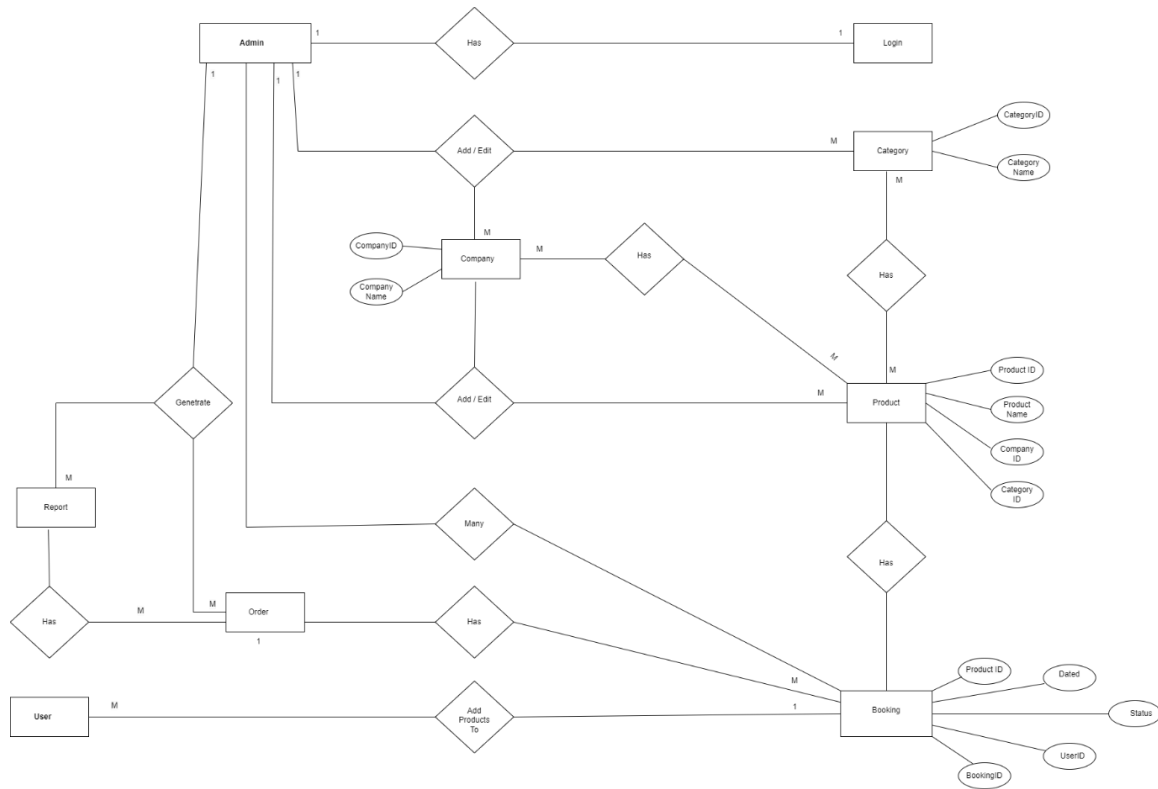
3.1.1 Context Level DFD



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:

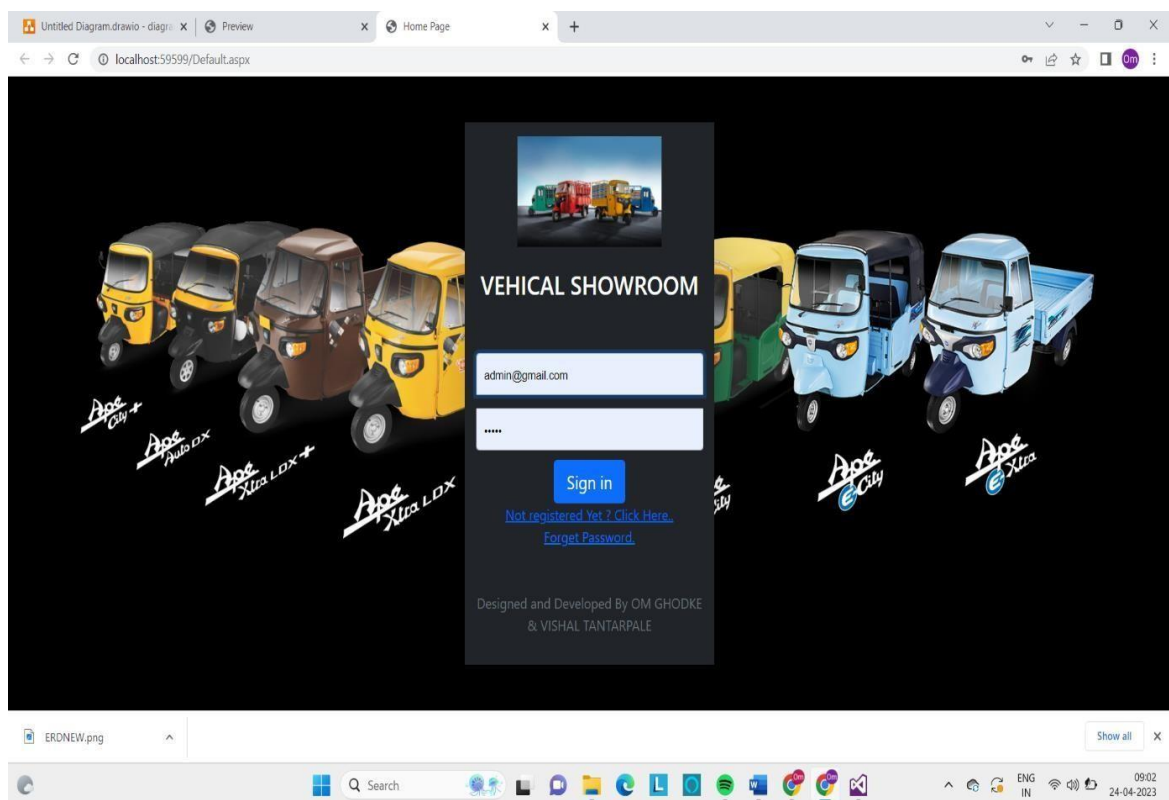
column name	Datatype	Constrain t	Allow null
ProductId	Int	PK	No
CatId	Int	FK	No
C_id	Int	FK	No
ProductName	varchar(100)		No
Price	Float		No
Picture	Int		No

6.Booking:

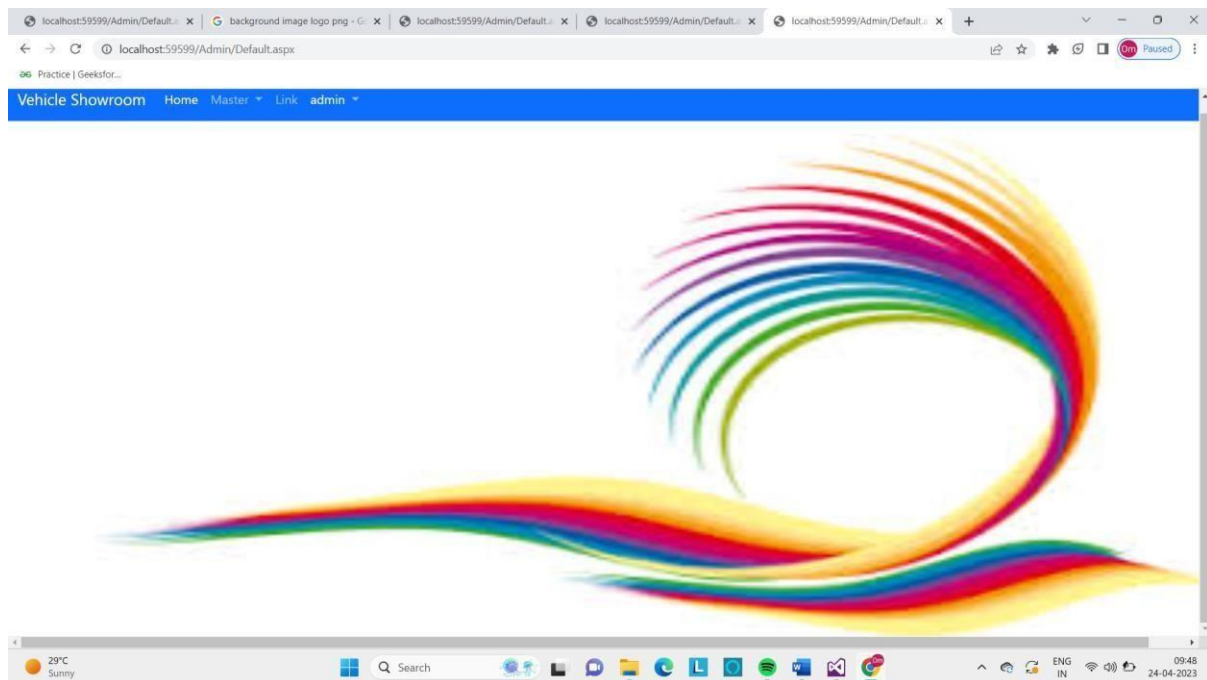
column name	datatype	Constrain t	Allow null
BookId	Int	PK	No
UserID	Int	FK	No
ProductID	Int	FK	No
Dated	Date		No
Status	Varchar		No

3.4 Output Screens :

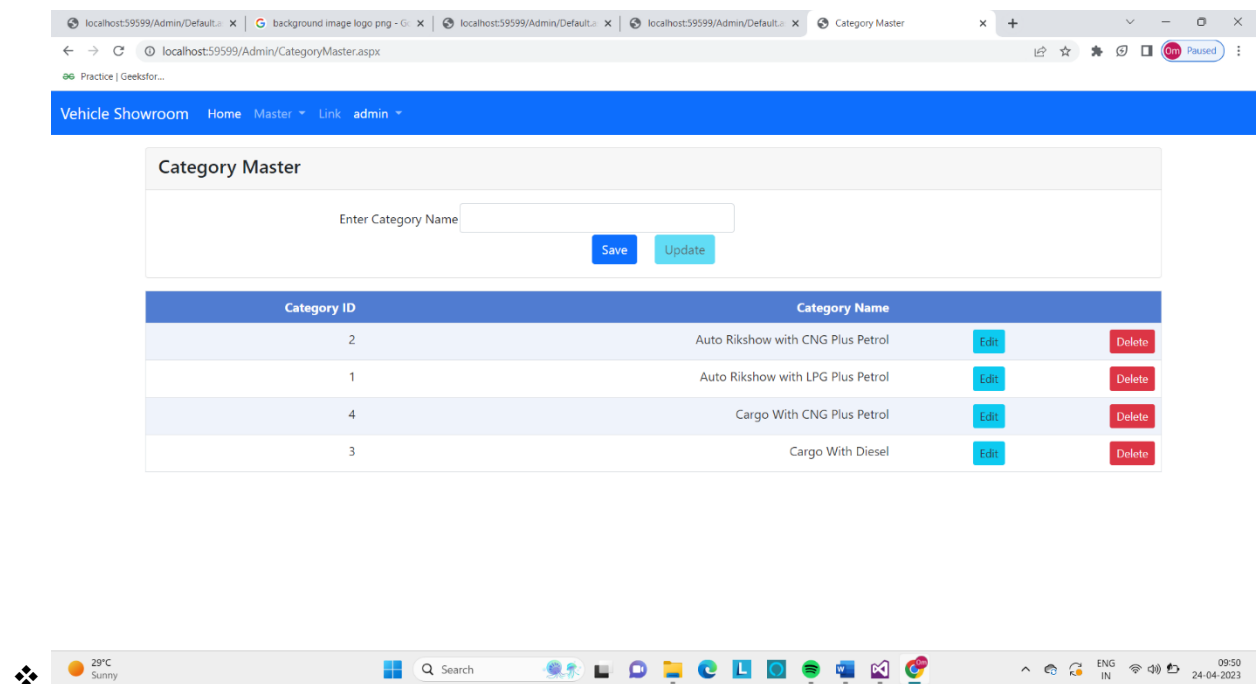
❖ Admin Login screen:



❖ Admin Home Page:



❖ Category Master:



❖ Company Master:

The screenshot shows a web browser window with the URL `localhost:59599/Admin/Company.aspx`. The page has a blue header with navigation links: **Vehicle Showroom**, **Home**, **Master** (selected), **Link**, and **admin**. Below the header, there is a form titled "Company Master" with a text input field labeled "Enter Company Name" and two buttons: **Save** and **Update**. Below the form is a table with two columns: **Company Id** and **Company Name**.


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

The browser's taskbar at the bottom shows the system clock as 09:56 on 24-04-2023, and the weather as 29°C Sunny.

❖ Product Master:

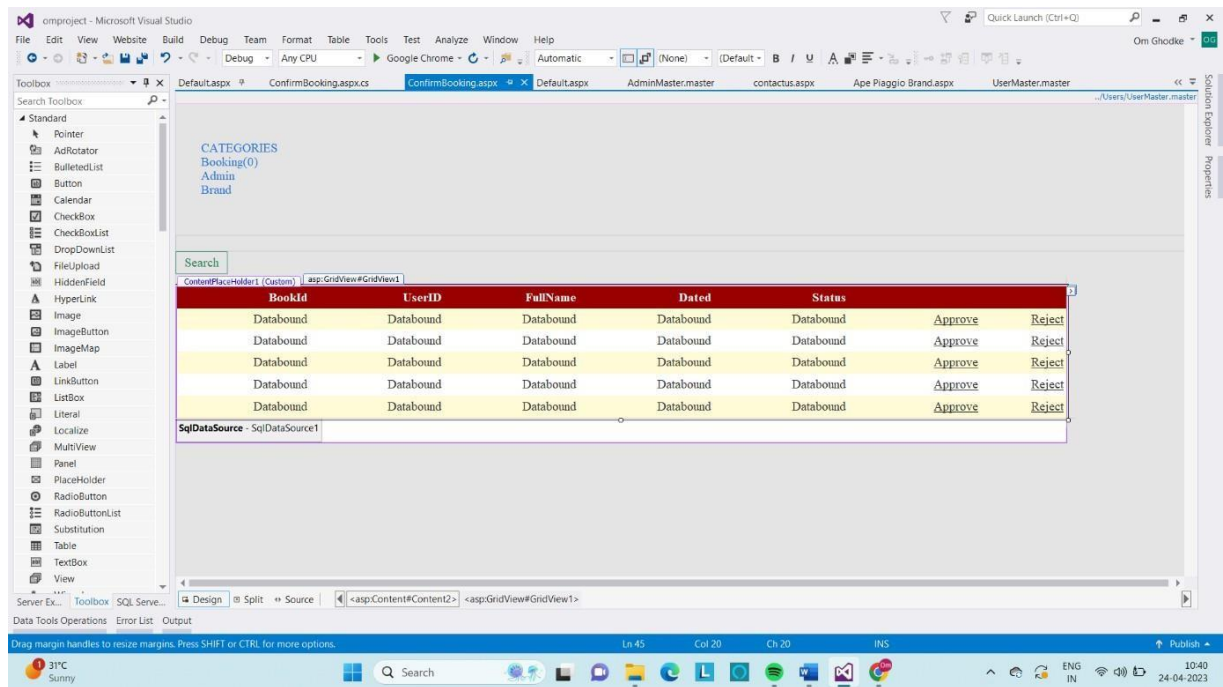
The screenshot shows a web browser window with the URL `localhost:59599/Admin/product.aspx`. The page has a blue header with navigation links: **Vehicle Showroom**, **Home**, **Master** (selected), **Link**, and **admin**. Below the header, there is a form for adding a new product. It includes a "Select Category:" dropdown menu with "Auto Rikshaw with LPG Plus Petrol" selected, a "Select Company:" dropdown menu with "Piaggio" selected, an "Enter Product Name:" text input field with "APE CITY (LPG)" entered, an "Enter Price:" text input field with "264111" entered, and a "Product Picture:" section with a "Choose File" button and the text "No file chosen". There are **Save** and **Update** buttons at the bottom of the form. To the right of the form is a small image of a yellow and black Piaggio Ape City vehicle.

Below the form is a table with columns: **ProductId**, **CategoryName**, **CompanyName**, **ProductName**, **Price**, and **Picture**.

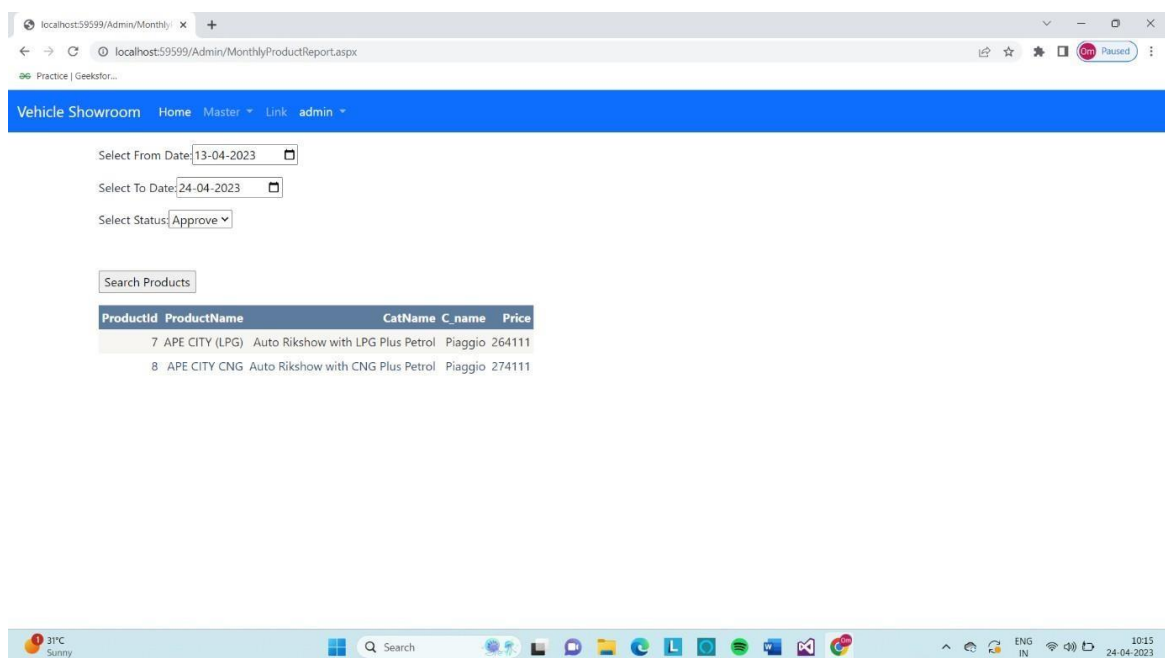
ProductId	CategoryName	CompanyName	ProductName	Price	Picture
7	Auto Rikshaw with LPG Plus Petrol	Piaggio	APE CITY (LPG)	264111	

The browser's taskbar at the bottom shows the system clock as 09:57 on 24-04-2023, and the weather as 29°C Sunny.

❖ Confirm Booking:



❖ Monthly Report:



❖ User Registration:

USER REGISTRATION PAGE

Enter Full Name:

Enter Email :

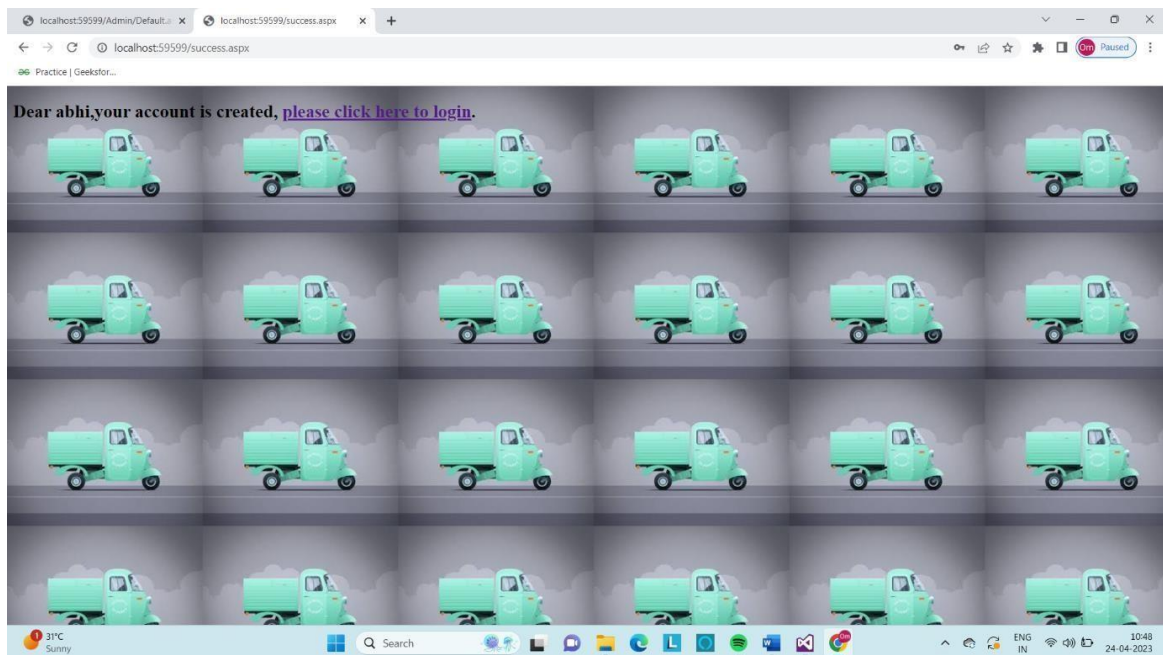
Enter Password :

Enter Confirm Password:

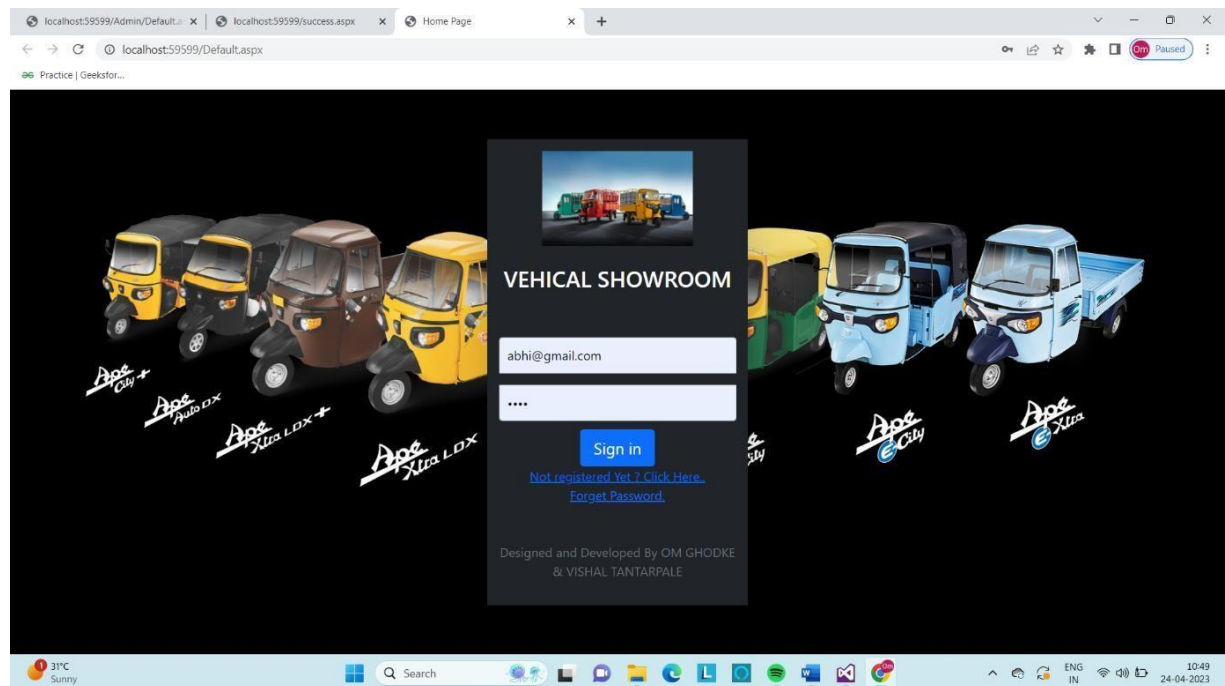
Select Security Que:

Answer:

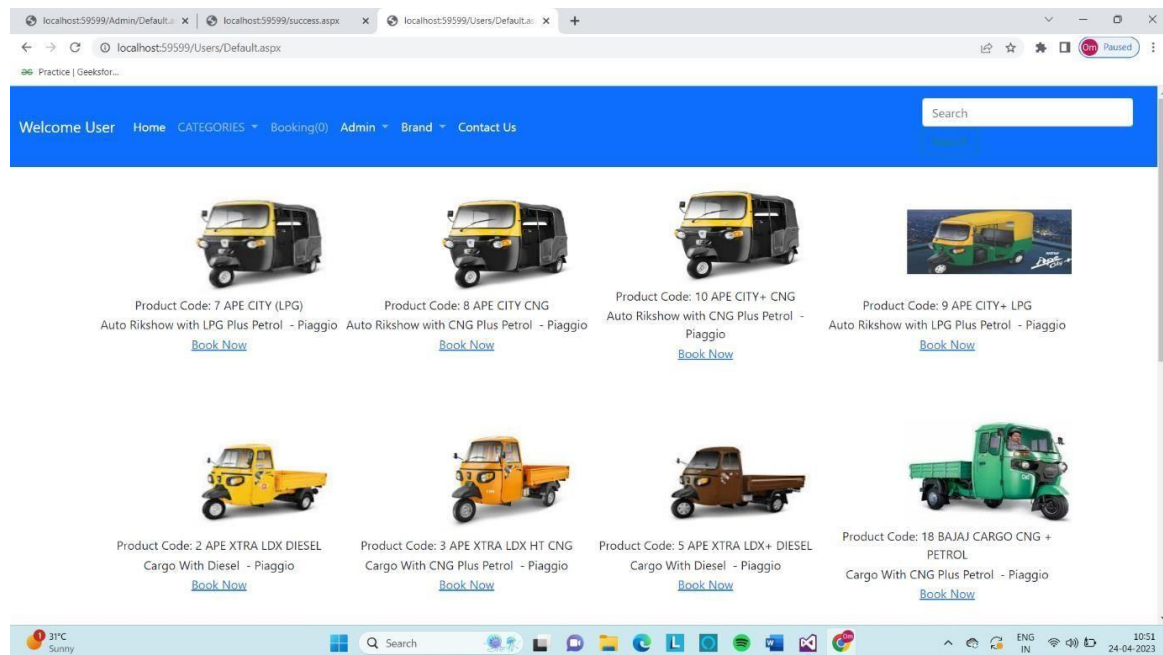
❖ Account Creation Success:



❖ 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...

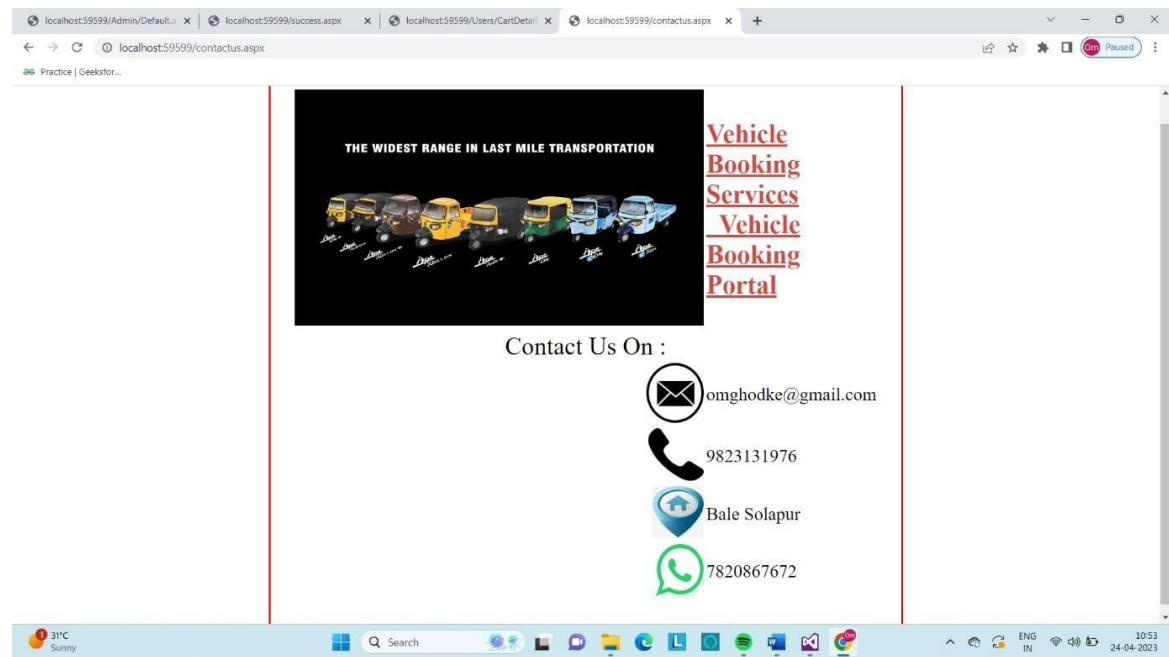
Welcome User Home CATEGORIES Booking(3) Admin Brand Contact Us

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