TWO WHEELER CATALOGUE

University of Kashmir, North Campus

Delina, Baramulla

In the partial fulfilment of the requirements for the award of the degree of
Masters of Computer Application
Department of Computer Science

Submitted By:

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Sabreena Gull (18045112024)

Moneesa Ashraf (18045112043)

Session:2022
Batch:2018

DECLARATION

We hereby declare that this project entitled "**Two wheeler catalogue**" which is being submitted for award of the Degree of Masters in Computer Applications to "Department of Computer Science", University Of Kashmir, North Campus is an authentic record of our original work .This project is not submitted earlier for the award of any other degree, diploma or fellowship or published any time before.

Dated: 27-06-22

Place: Department Of Computer Applications, North Campus

University Of Kashmir, North Campus

Delina, Baramulla

CERTIFICATE

This is to certify that the project titled, **"TWO WHEELER CATALOGUE**" Is a bonafide record of the work done by Uznain Nazir, Moneesa Ashraf, Sabreena Gull (6th semester MCA) during the period from March 2022 to June 2022, in partial fulfilment of the requirements for the award of the Degree of Masters of Computer Application.

Dr Umar Farooq

Head of Department

ACKNOWLEDGEMENT

First and foremost, all praise and thanks to Almighty for His grace and blessing throughout our project work.

We acknowledge our Head of Department Dr .Umar Farooq, for his unwavering moral support throughout the evolution of this project.

The making of this project has been an insightful endeavour and an enriching experience. We sincerely express indebtedness to our esteemed and revered faculty Members and head of the department of computer Science University of Kashmir, North campus for their invaluable support, assistance, comments, supervision And encouragement throughout the work

Moneesa Ashraf

Uznain Nazir

Sabreena Gull

Contents at Glance

1. Introduction

1.1 Background and Motivation

Today in the 21st century, we cannot imagine our life without computers. They have become an irreplaceable part of our life. The computers, in one way or the other make our lives easier with its numerous uses. With the help of them, business deals and online bookings for almost everything have become efficient and easier.

Our system **Two Wheeler Catalogue** is a web based application which is great tool for online Two-Wheeler booking. Surprisingly easy for you to find a product, know about its details and compare it with others. Our goal is to provide the best booking experience on the internet; and establish this portal as the most trusted and effective online destination to make a booking decision.

Now we have developed a Web based application where all these tasks have been atomized as well as web based. This application is coded in **C# (ASP.NET).** This software is very helpful to dealers as well as users as it deals with huge amount of information about two wheelers, their dealers and brands.

This system is designed using **CSS** and **HTML** which makes it user friendly. This application is divided into many modules and each module is related to different part of code. Another advantage of this software is that the database is designed in MS Sql Server which is a relational database, to keep the current and previous information and thus maintain database efficiently.

1.2: Objective

It is usually observed that people usually go to showrooms of different brands in search of a good two-wheeler vehicle that they wish to buy. This becomes confusing at a point and even consumes lot of time. Hence our project helps users to get their desired vehicle models and details online at a single place.

The main objectives of our project are:

1. To develop web based application for users and dealers of two wheelers.

2. To provide online bookings of products and registration of dealers.

3. To provide the efficient details of two wheelers.

In the existing system, all work is done manually which often requires a lot of time and effort. We provide ways to book vehicles online in a very less time

People have to visit showrooms of different brands in search of vehicles consuming lot of time. People can visit the showrooms only during office hours. Dealers have to maintain all kinds of records (Managing stock, bookings, etc.) manually

2. Requirement Analysis

Requirements analysis in systems engineering and software engineering, encompasses those tasks that go into determining the needs or conditions to meet for a new or altered product or project, taking account of the possibly conflicting requirements of the various stakeholders, analyzing, documenting, validating and managing software or system requirements in figure 1.

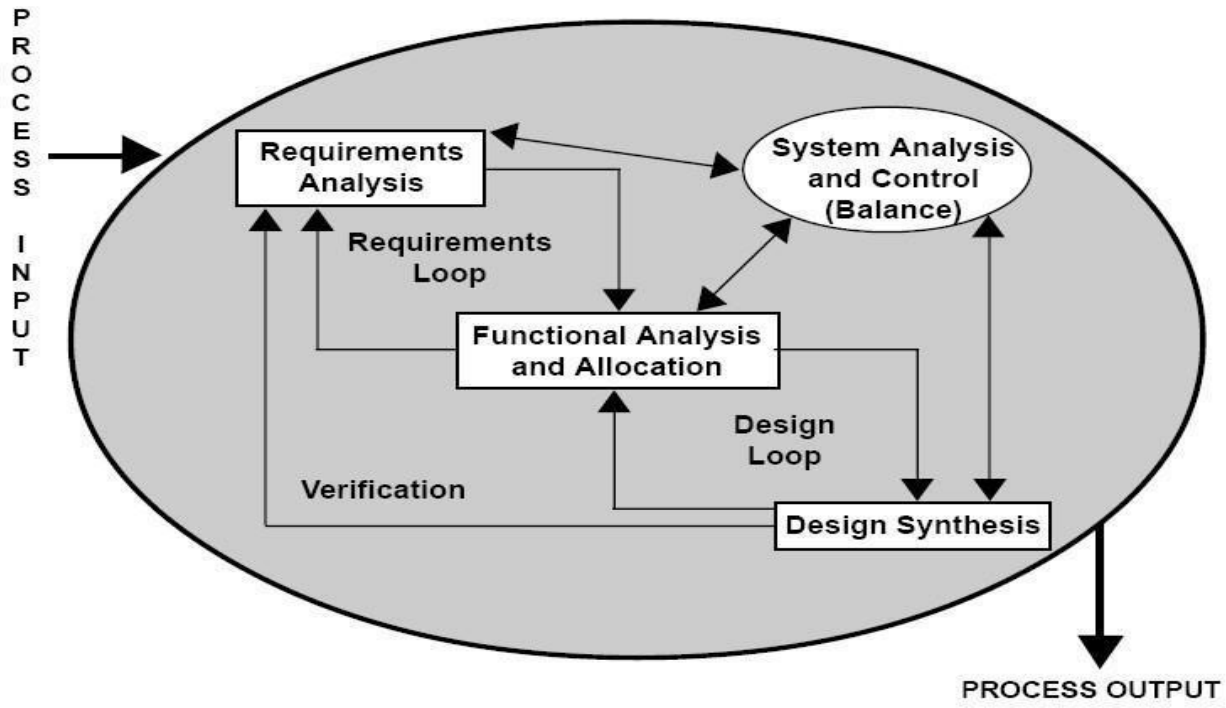


Figure 1: Requirement Analysis

Requirement analysis is critical to the success of a systems or software project. The requirement should be documented, actionable, measurable, testable, traceable, related to identified business needs or opportunities, and defined to a level of detail sufficient for system design.

2.1Feasibility:

Feasibility study is made to see if the project on completion will serve the purpose of the organization for the amount of work, effort and the time that spent on it. A feasibility study of a system proposal is according to its workability, which is the impact on the organization, ability to meet their user needs and effective use of resources.
The following are its features:

2.1.1. TECHNICAL FEASIBILITY:

The system must be evaluated from the technical point of view first. Technical issues raised during the investigation are:

- Does the existing technology sufficient for the suggested one?
- Can the system expand if developed?

The proposed project is developed with the necessary functions and performance is achieved within the constraints. The project is developed within the latest technology. At the client's side, only browser is required which is freely available. IDE (MS Visual Studio 2013) is needed only for the development of the product.

2.1.2. ECONOMIC FEASIBILITY:

The developing system must be justified by cost and benefit. Criteria to ensure that effort is concentrated on project, which will give best, return at the earliest. One of the factors which affect the development of a new system is the cost it will require.
The following are some of the important financial questions asked during preliminary investigation:

- The costs conduct a full system investigation.
- The cost of the hardware and the software.
- The benefits in the form of reduced costs or fewer costly errors.

2.1.3BEHAVIORAL FEASIBILITY

This includes the following questions:

- Is there sufficient support for the users?
- Will the proposed system cause harm?

The proposed project is beneficial because it satisfies the objectives. All behavioural aspects are considered carefully and conclude that the project is behaviourally feasible.

2.2. OBSERVATIONS MADE DURING ANALYSIS:

a. To visit showrooms of different brands in search of vehicles consuming lot of time.
b. People can visit the showrooms only during office hours.
c. Dealers have to maintain all kinds of records (Managing stock, bookings, etc.) manually.

2.3. SDLC METHODOLOGY USED:

The Software Development Life Cycle (SDLC) explains the various stages of a software cycle and the structure in which these stages are carried out. The result produced from each stage is implemented in the next stage of the software life cycle. Requirements are converted into design and the design is used to develop the code. The final testing stage authenticates the results of the implementation stage by measuring it across the requirements.

The Software Development Life Cycle (SDLC) is very significant for the successful completion of any project. We are provided with numerous SDLC models that aim at systematic completion of the project, different models for different projects based on the necessary requirements of the project.

Therefore, it is very important to choose the right SDLC model according to the specific concerns and requirements of the project.

However, we are using incremental model for our project.

2.4Incremental Model:

The incremental build model is a method of software development where the product is designed, implemented and tested incrementally (a little more is added each time) until the product is finished.

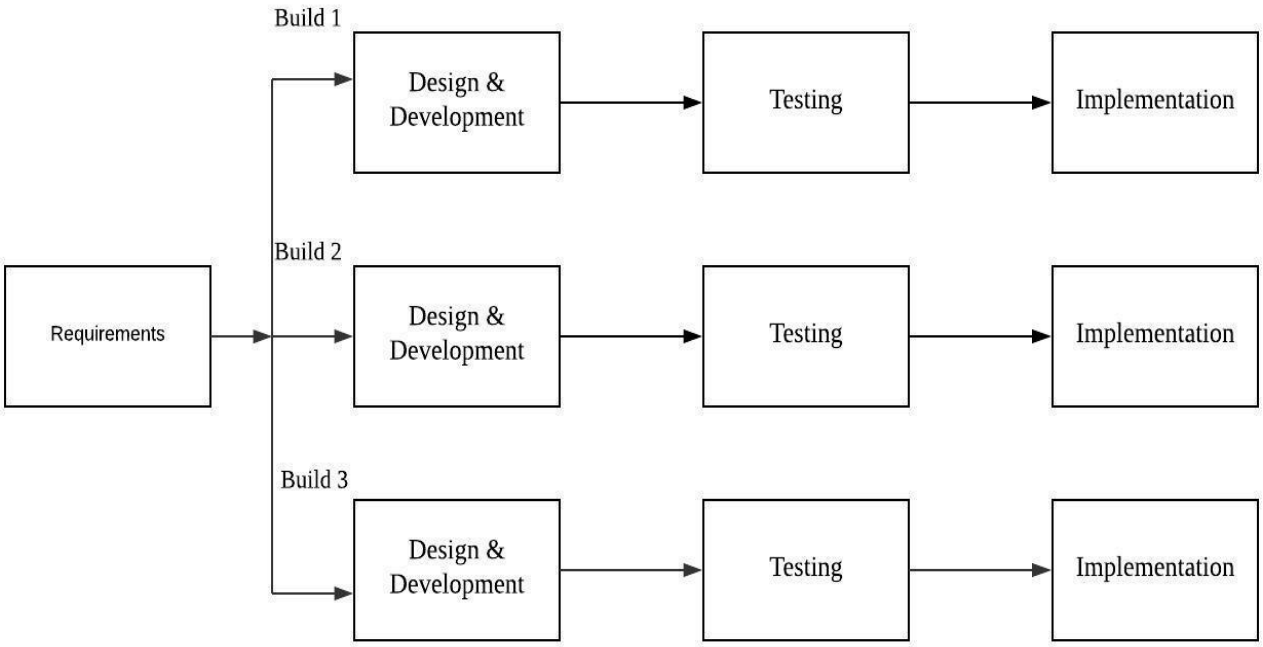
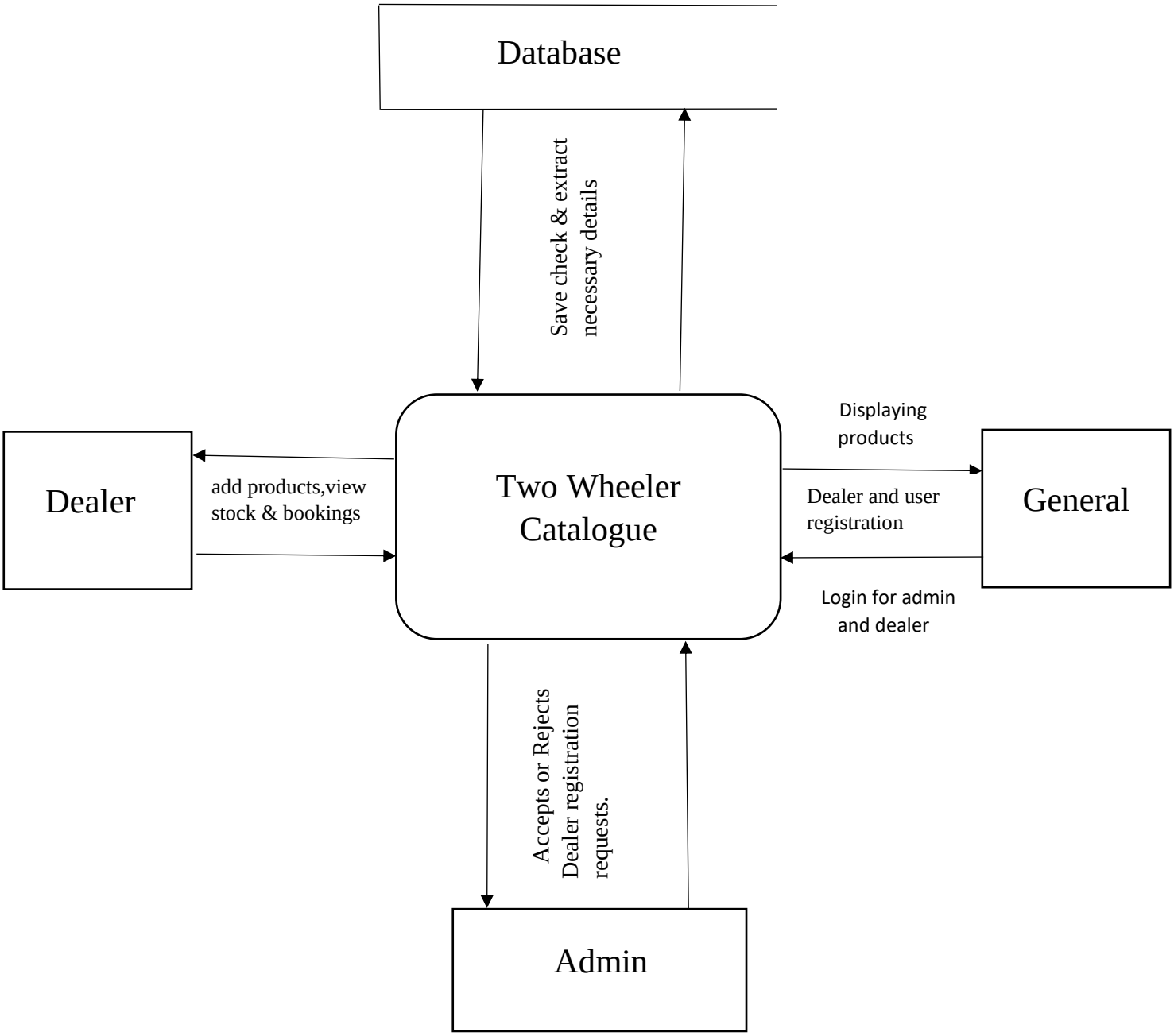


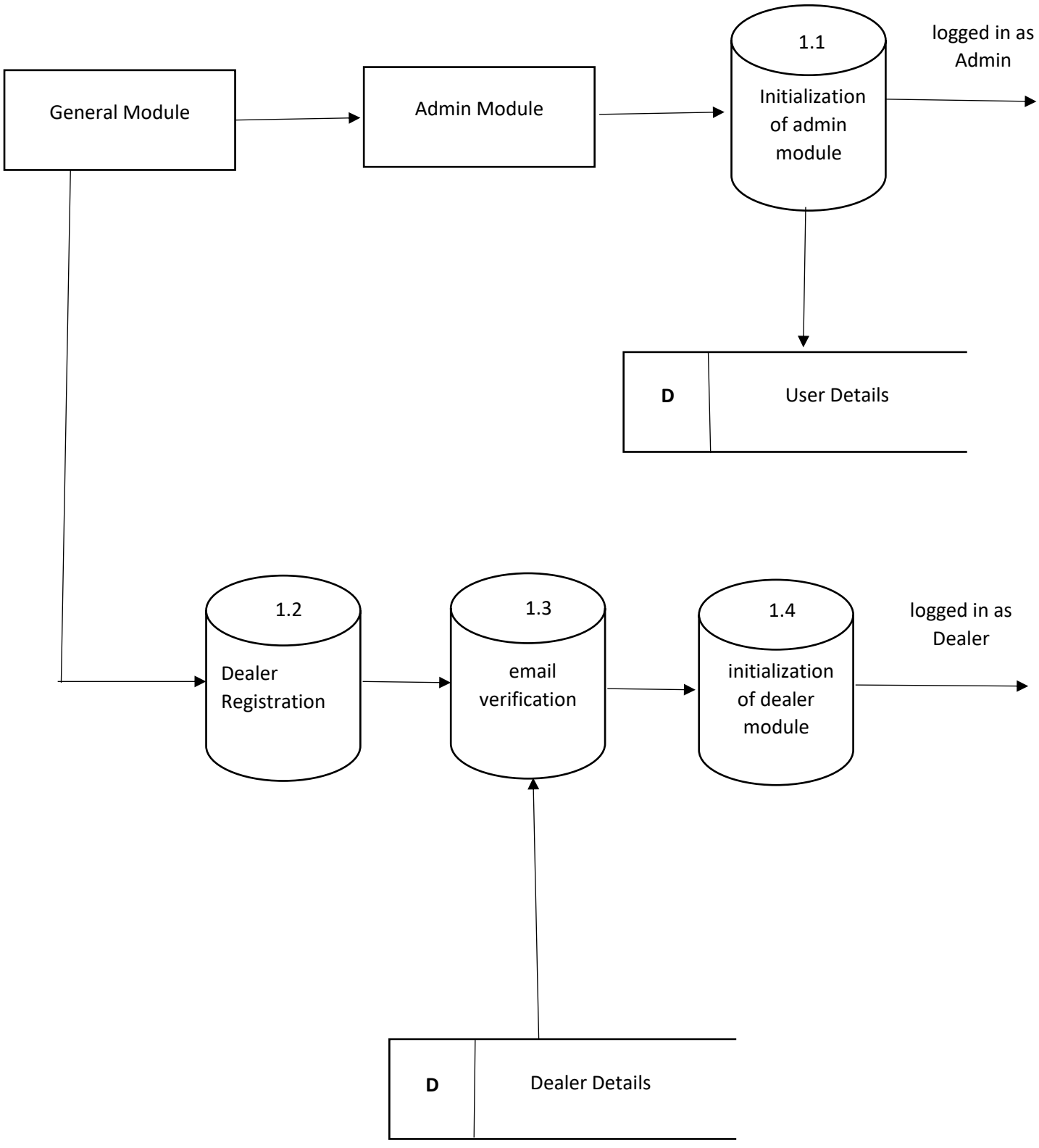
Figure 2: Incremental Model

The product is decomposed into a number of components, each of which is designed and build separately (termed as builds).

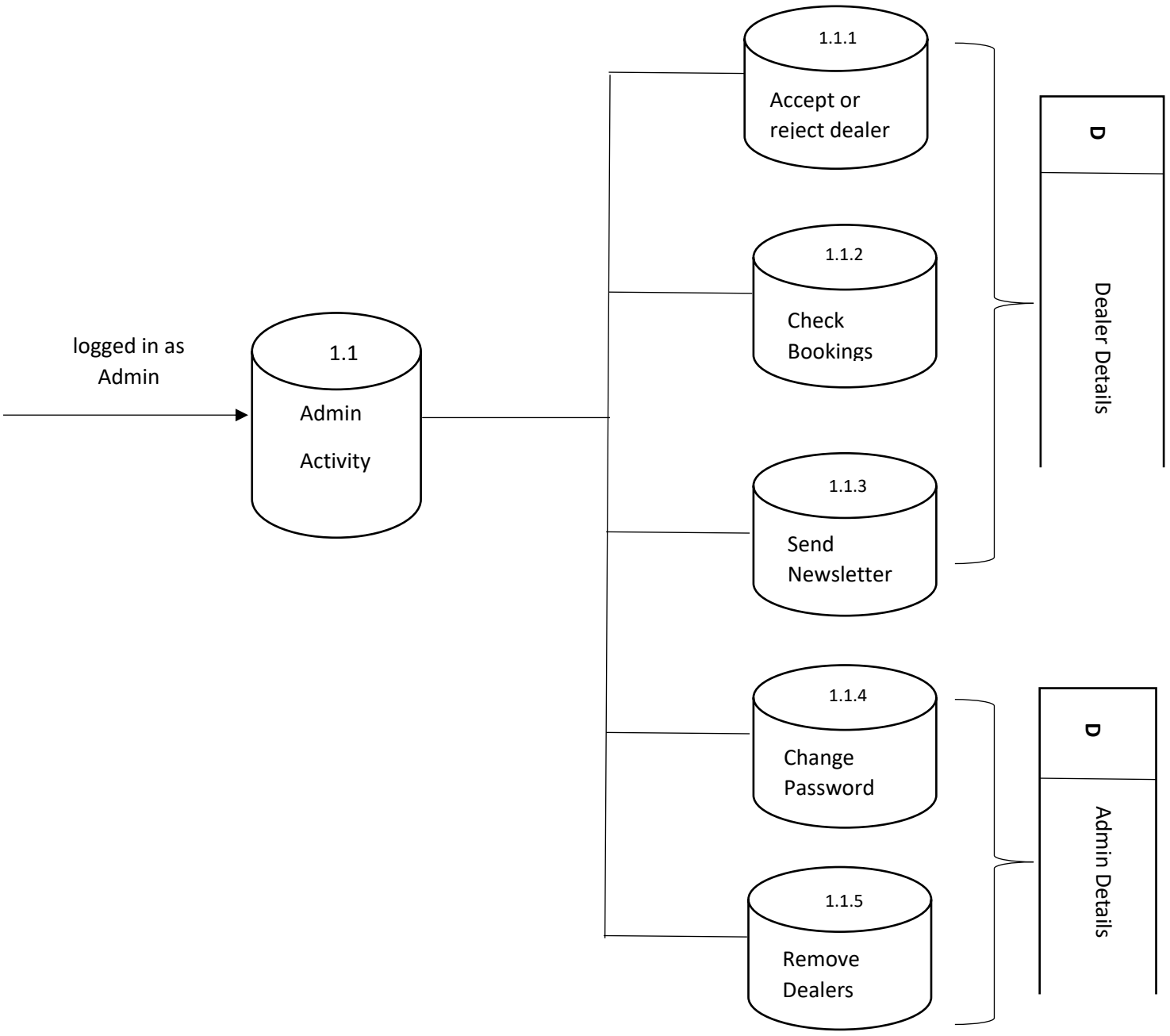
3. Data Flow Diagram



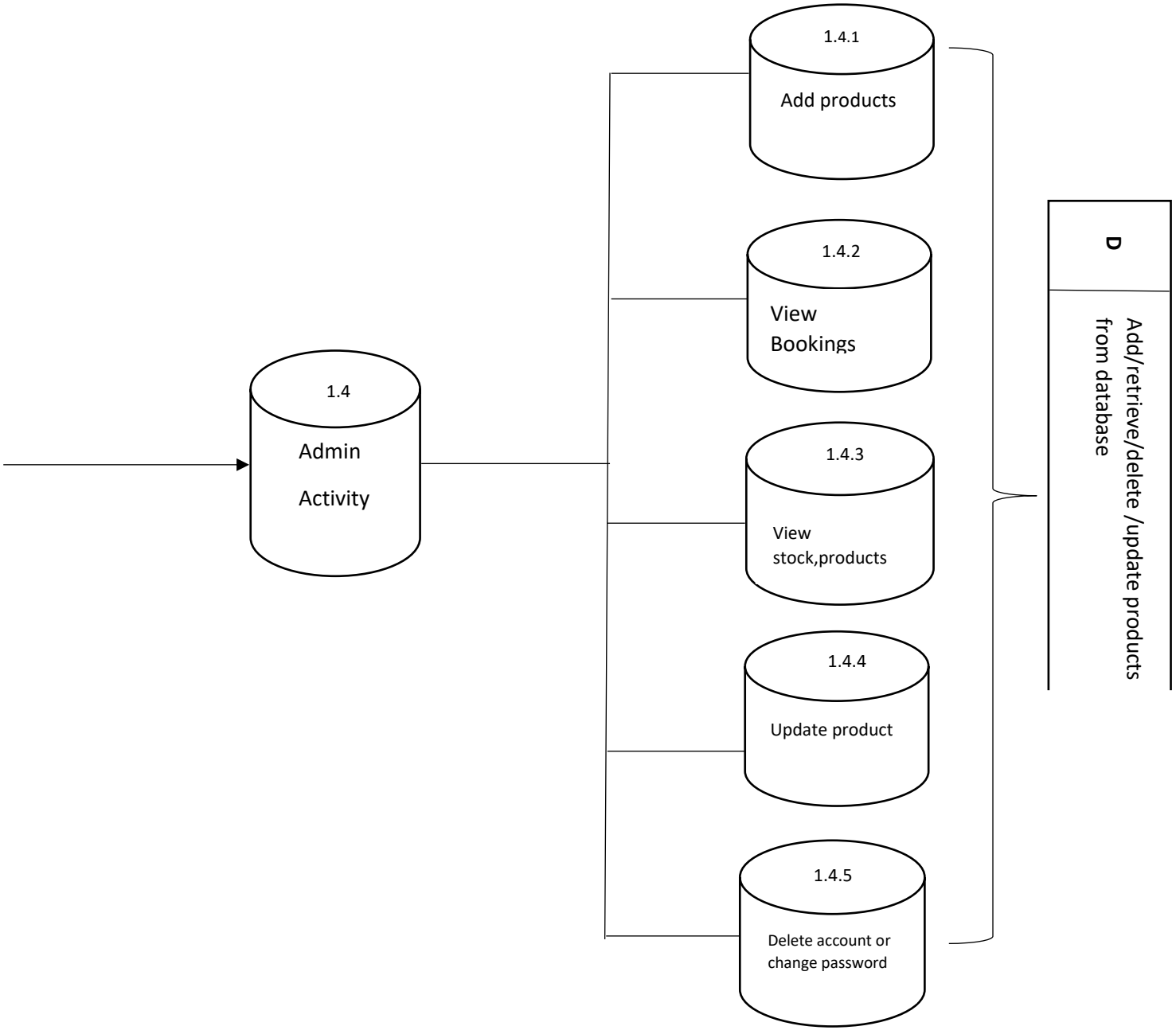
3.1First level DFD of General Module



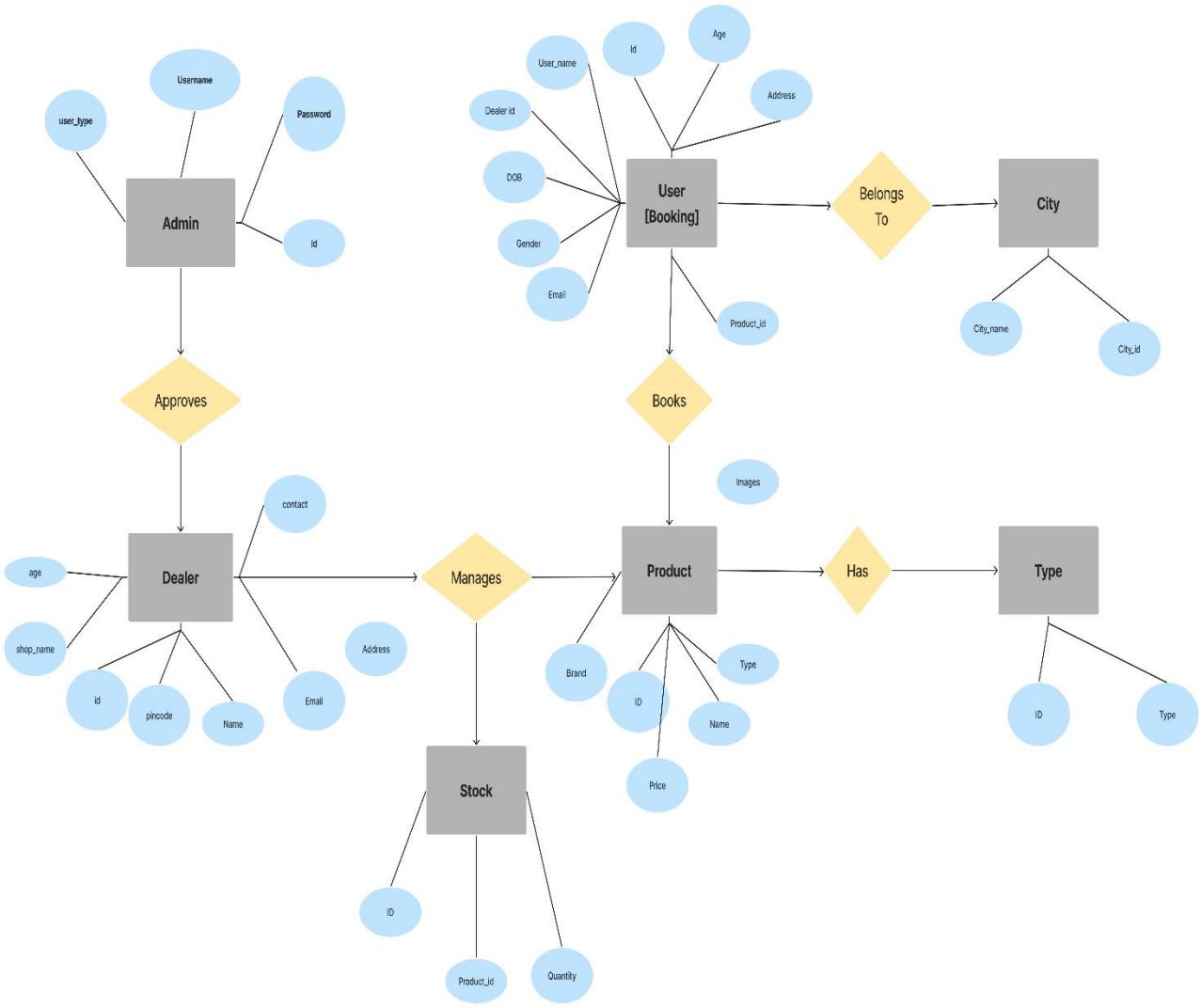
3.2First level DFD of Admin Module



3.3First level DFD of Dealer Module

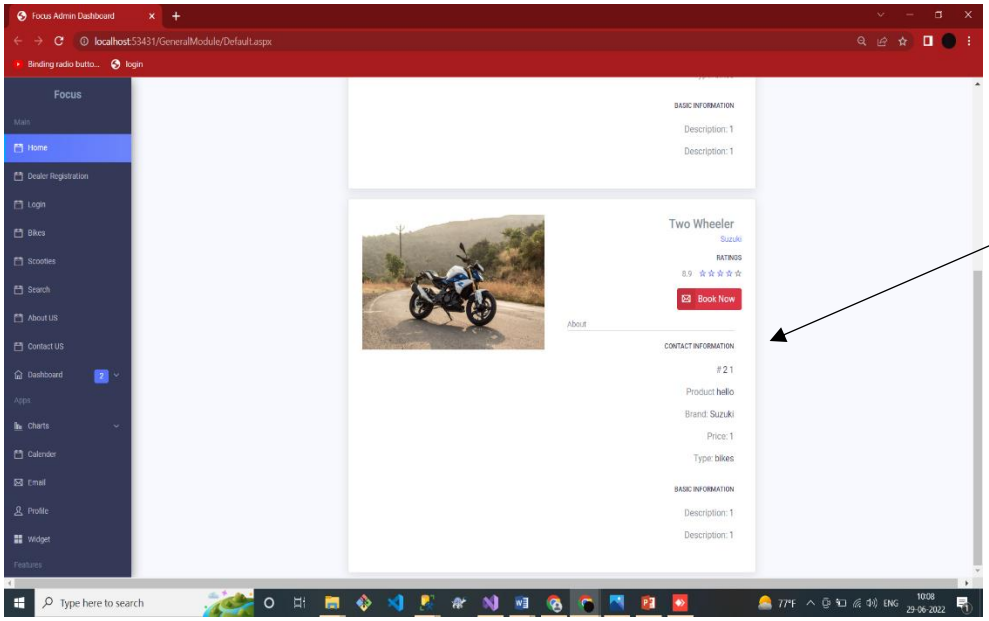


4. Entity Relationship Diagram

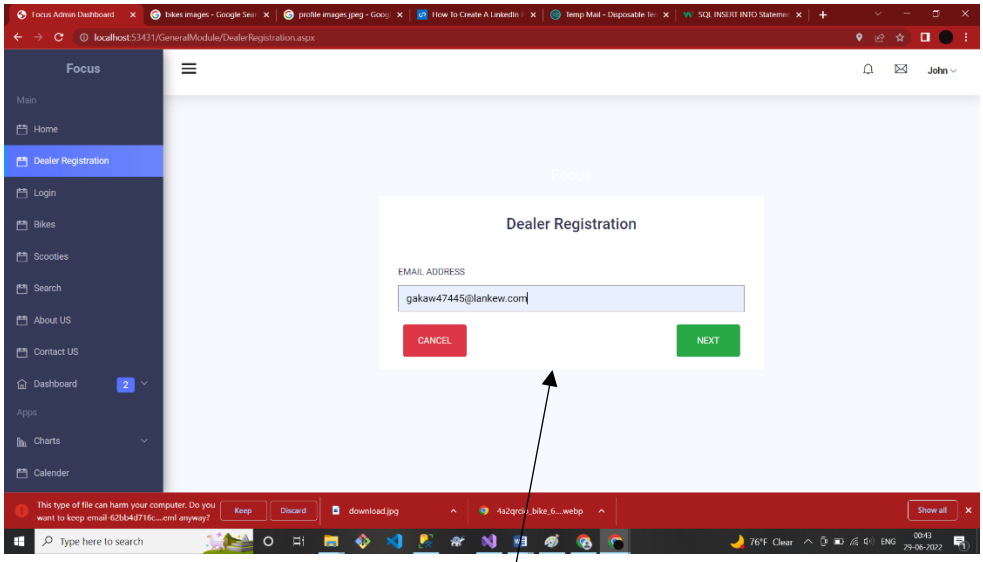


5. Screenshots and Implementation

5.1General Module

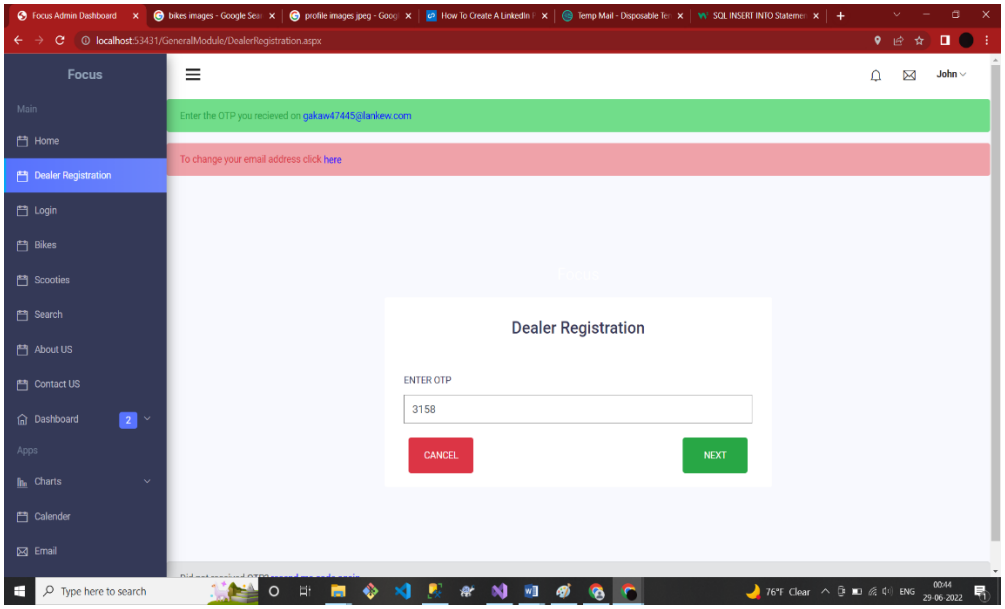


Home page of general module display the products which different registered dealers/sellers have added/registered.

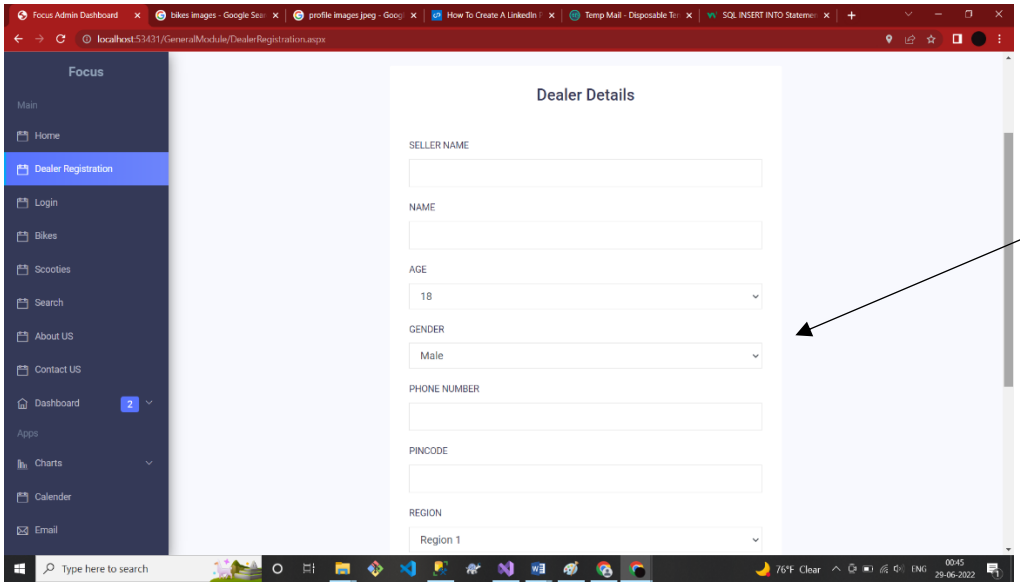


Home page of general module also contains Dealer registration option, where different dealers can register themselves and sell their product (two wheelers). In order to register, dealer will have to provide the e-mail address and will receive an otp , upon filling dealer registration form ,the request will be sent to admin, if admin accepts the request then dealer will receive email and password to login in dealer module and add and sell products .

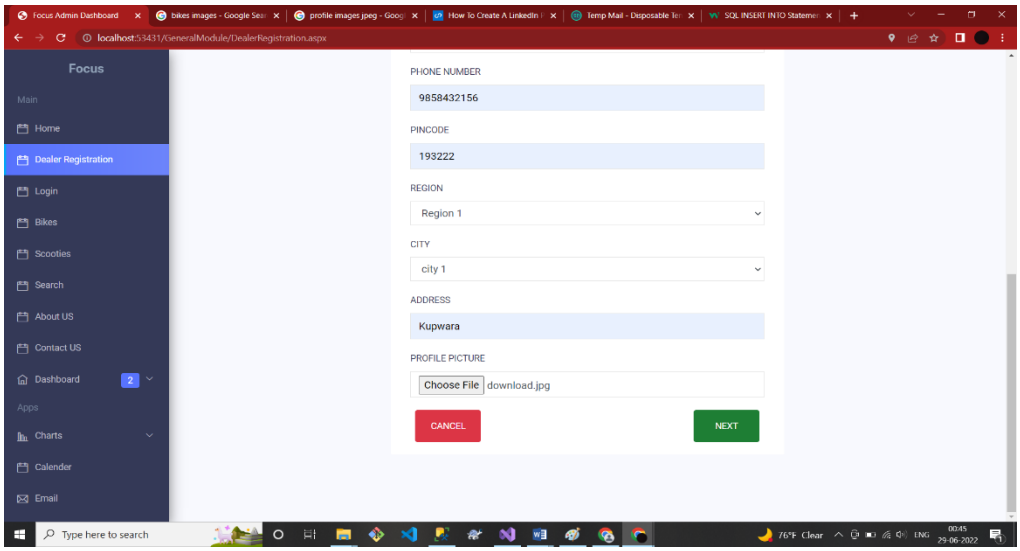
```
<div class="login-form">
<div class="form-group">

<label>Email Address</label>

<asp:TextBox TextMode="Email" ID="txtemailid" runat="server" class="form-control"
placeholder="User Name"></asp:TextBox>

<span class="help-block"><small>

<asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server"
ControlToValidate="txtemailid" Display="Dynamic" ErrorMessage="* Required"
ForeColor="Red"></asp:RequiredFieldValidator></small></span>

 </div>
```

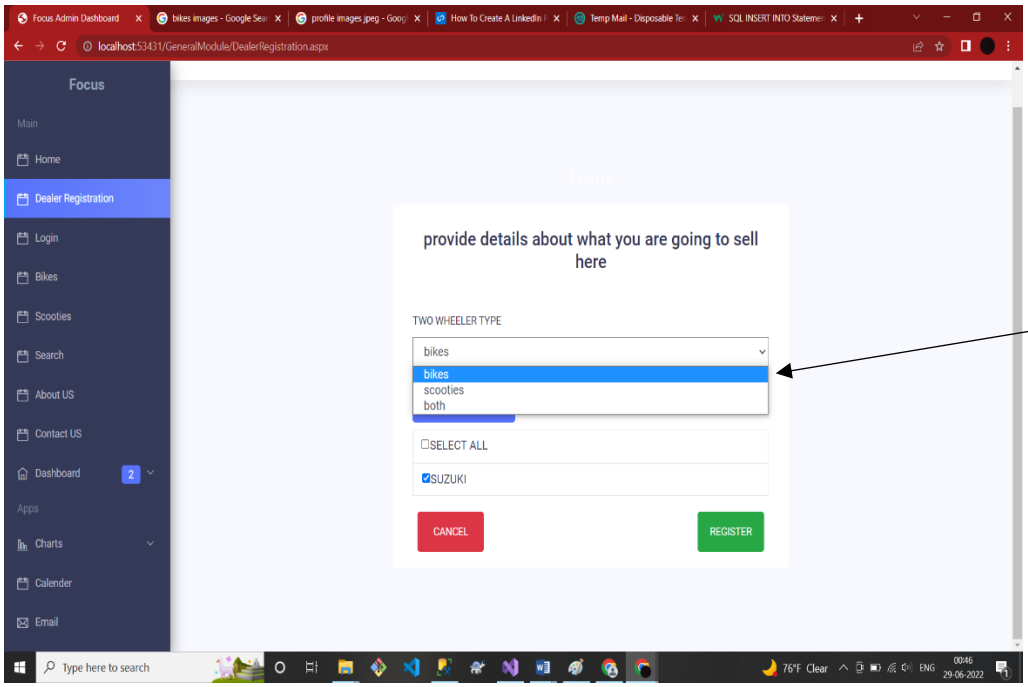



```
<div class="form-group">
<label>Enter OTP</label>

<asp:TextBox ID="txtotp" runat="server" class="form-control"></asp:TextBox>

<span class="help-block"><small>
<asp:RequiredFieldValidator ID="RequiredFieldValidator2" runat="server"
ControlToValidate="txtotp" Display="Dynamic" ErrorMessage="* Required"
ForeColor="Red"></asp:RequiredFieldValidator></small></span>
</div>

<div class="row">
<div class="col-6">
<asp:Button ID="Button5" runat="server" CausesValidation="False"
OnClick="Button5_Click" Text="Cancel" class="btn btn-danger" Width="100px" />
</div>

<div class="col-6" style="text-align: right">

<asp:Button ID="Button2" runat="server" OnClick="Button2_Click" Text="Next"
class="btn btn-success" Width="100px" />

</div>
```

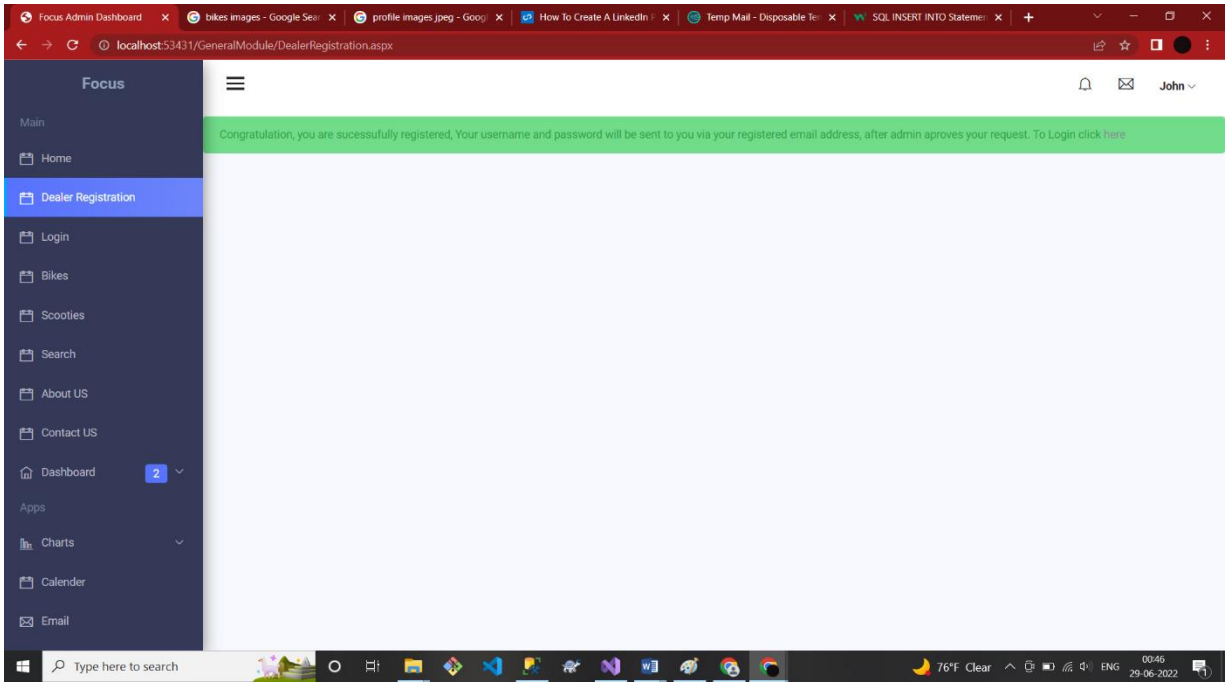


Dealer registration form





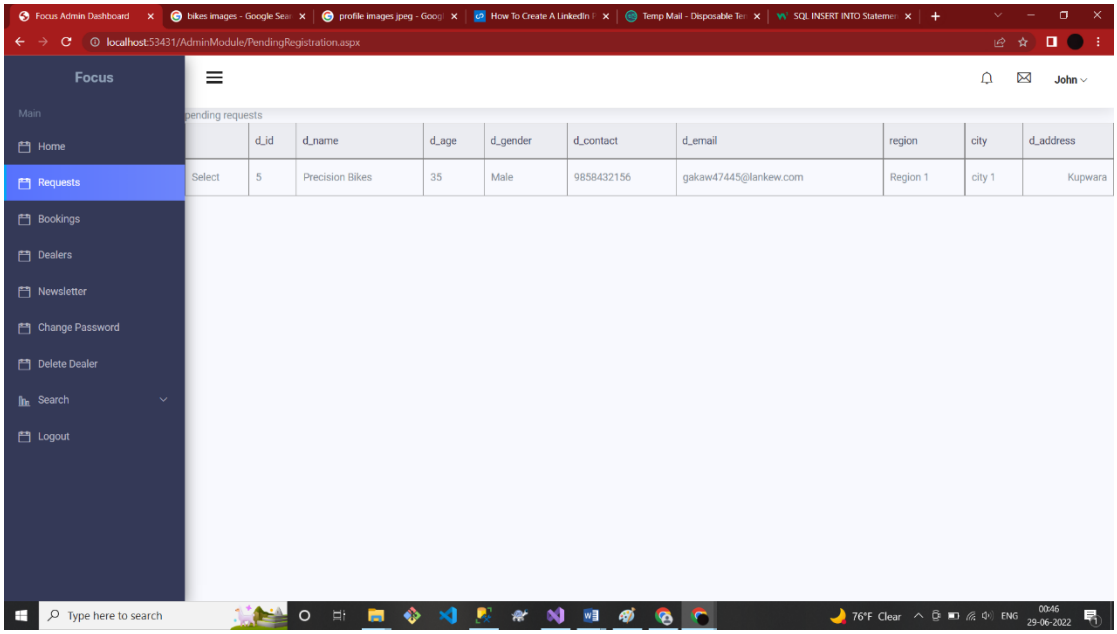
Whether dealer sells bikes or Scotties or both



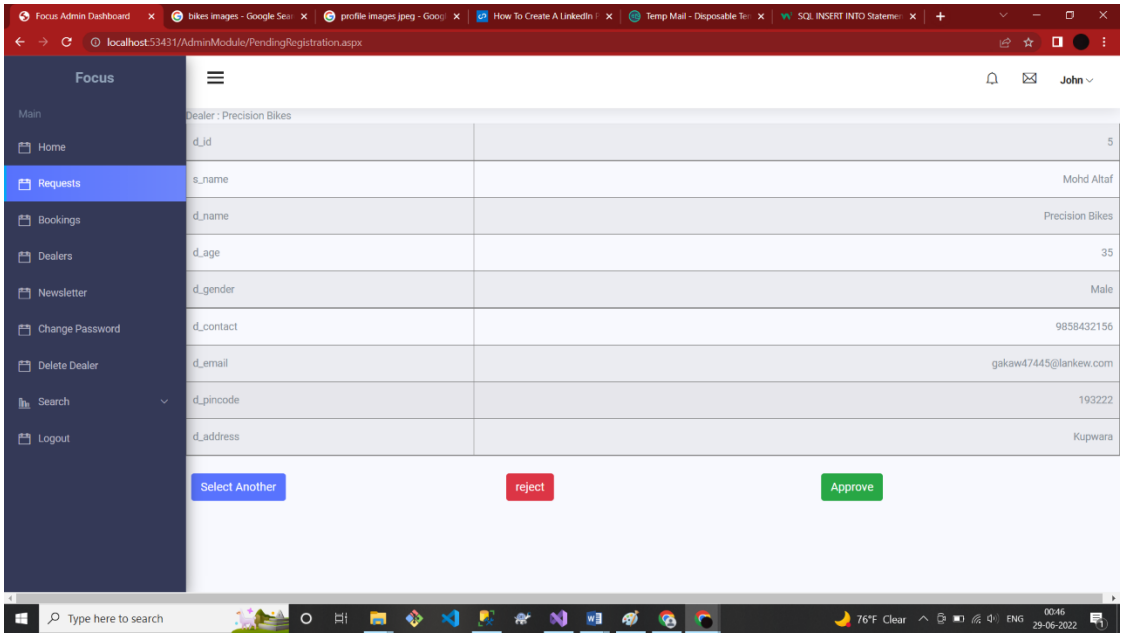
Once dealer fills the form, the request will be sent to admin. Upon approval dealer will receive email and password in its registered email address.

```
protected void Button1_Click(object sender, EventArgs e)
    {

        string str = "select d_name from dealerregistration where d_email='" +
txtemailid.Text + "';";
        connectionclass obj = new connectionclass();
        obj.datareader(str);

        if (obj.dr.HasRows)
        {
            Response.Write("<script>alert('This Email ID is already registered.
Please try again with another Email ID');</script>");

            txtemailid.Text = "";
            txtemailid.Focus();
            MultiView1.ActiveViewIndex = 0;

     }
        else
        {
            Random r = new Random();
            long n;
            n = r.Next(1000, 10000);
            ViewState["otp"] = n.ToString();
            MailMessage m = new MailMessage("devxbasit@gmail.com",
txtemailid.Text, "OTP", "hi user your otp is :" + n.ToString());
            SmtpClient sc = new SmtpClient();
            sc.EnableSsl = true;
            sc.Port = 587;
            sc.Send(m);
```

```
            lbtuseremailid.Text = txtemailid.Text;
            MultiView1.ActiveViewIndex = 1;
            txtotp.Focus();
        }


    }
```

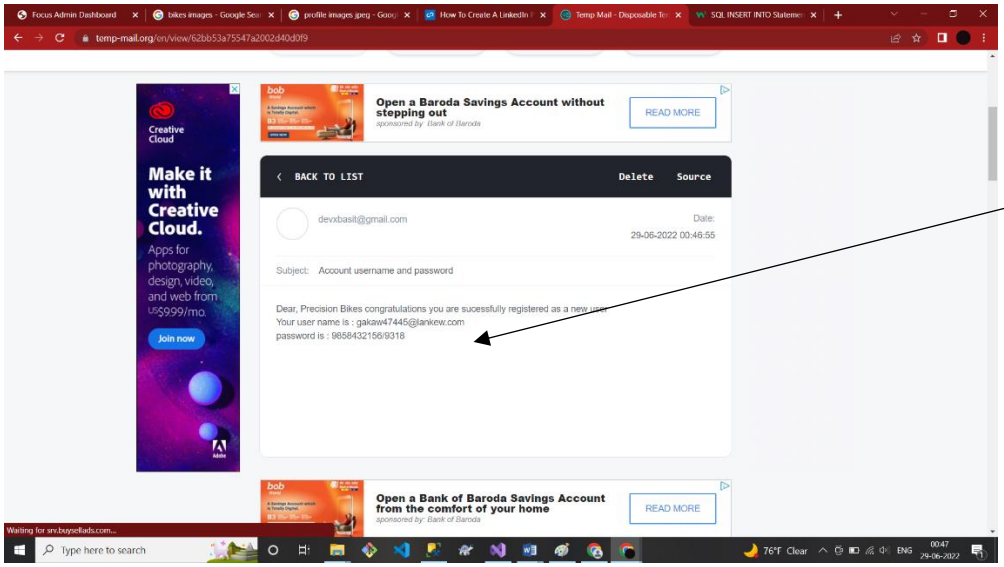


Request for dealer registration sent to admin module



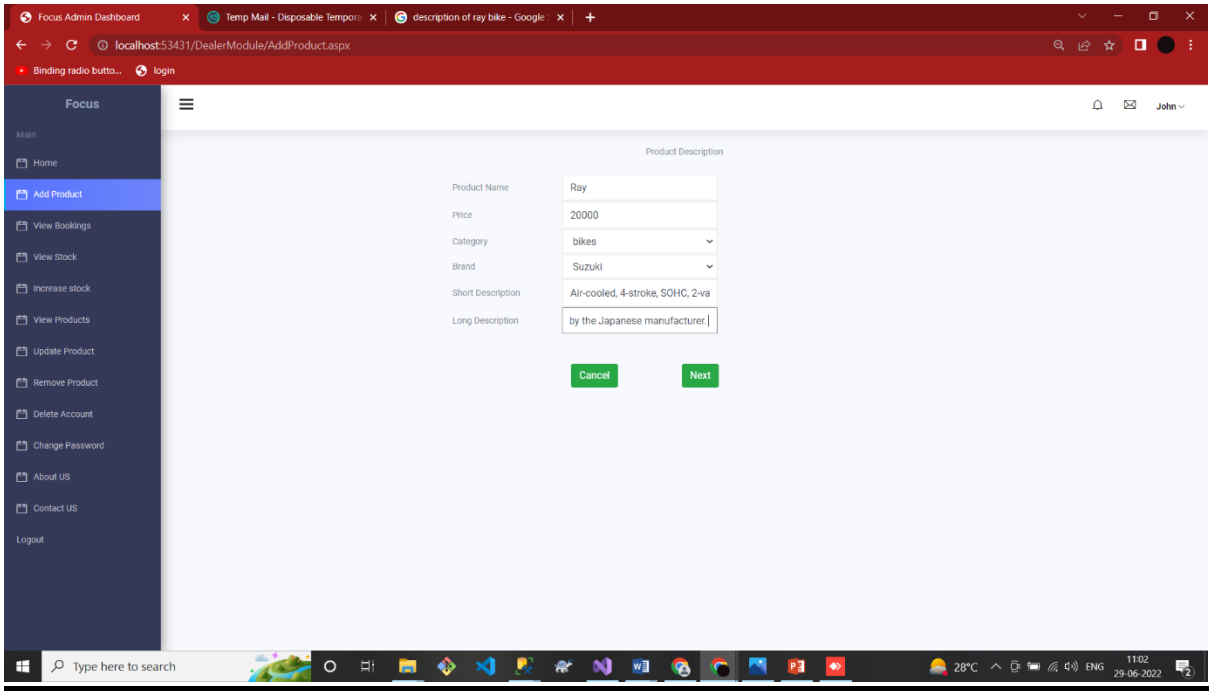
Now admin can either approve or reject dealer registration request.

```
protected void Button1_Click(object sender, EventArgs e)
    {
        string str = "select d_name from dealerregistration where d_email='" +
txtemailid.Text + "';";
        connectionclass obj = new connectionclass();
        obj.datareader(str);

        if (obj.dr.HasRows)
        {
            Response.Write("<script>alert('This Email ID is already registered.
Please try again with another Email ID');</script>");


            //txtemailid.Text = "";
            //txtemailid.Focus();
            //MultiView1.ActiveViewIndex = 0;

            /*this is temporary code */

            Random r = new Random();
            long n;
            n = r.Next(1000, 10000);
            ViewState["otp"] = n.ToString();
            MailMessage m = new MailMessage("devxbasit@gmail.com",
txtemailid.Text, "OTP", "hi user your otp is :  " + n.ToString());
            SmtpClient sc = new SmtpClient();
            sc.EnableSsl = true;
            sc.Port = 587;
            sc.Send(m);
            lbtuseremailid.Text = txtemailid.Text;
            MultiView1.ActiveViewIndex = 1;
            txtotp.Focus();



        }
        else
        {
            Random r = new Random();
            long n;
            n = r.Next(1000, 10000);
            ViewState["otp"] = n.ToString();
            MailMessage m = new MailMessage("devxbasit@gmail.com",
txtemailid.Text, "OTP", "hi user your otp is :  " + n.ToString());
            SmtpClient sc = new SmtpClient();
            sc.EnableSsl = true;
            sc.Port = 587;
            sc.Send(m);

            lbtuseremailid.Text = txtemailid.Text;
            MultiView1.ActiveViewIndex = 1;
            txtotp.Focus();
        }
```

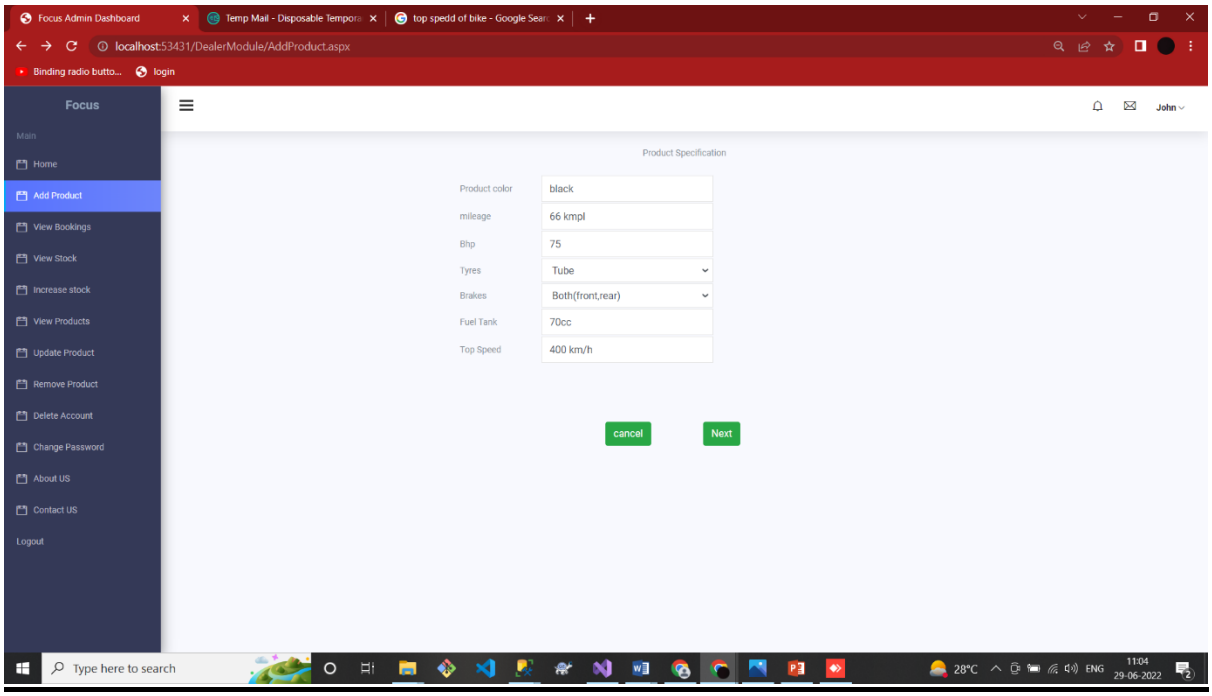


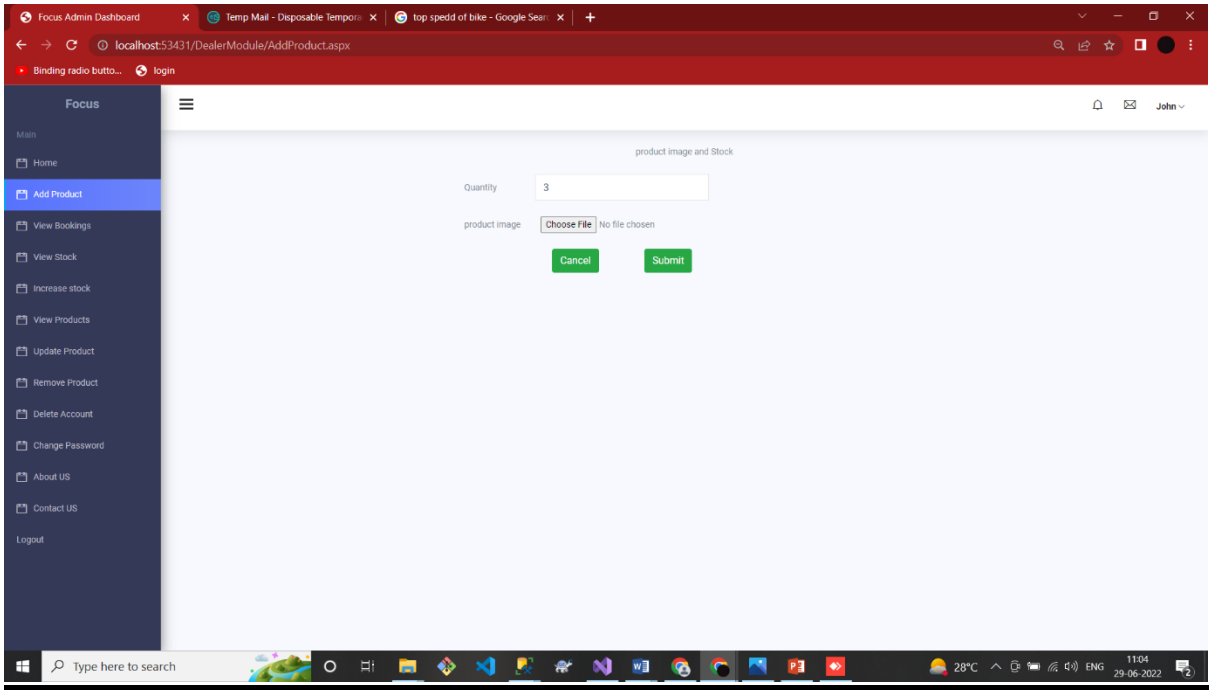
Admin approved dealer registration and dealer received email and password to login in dealer module

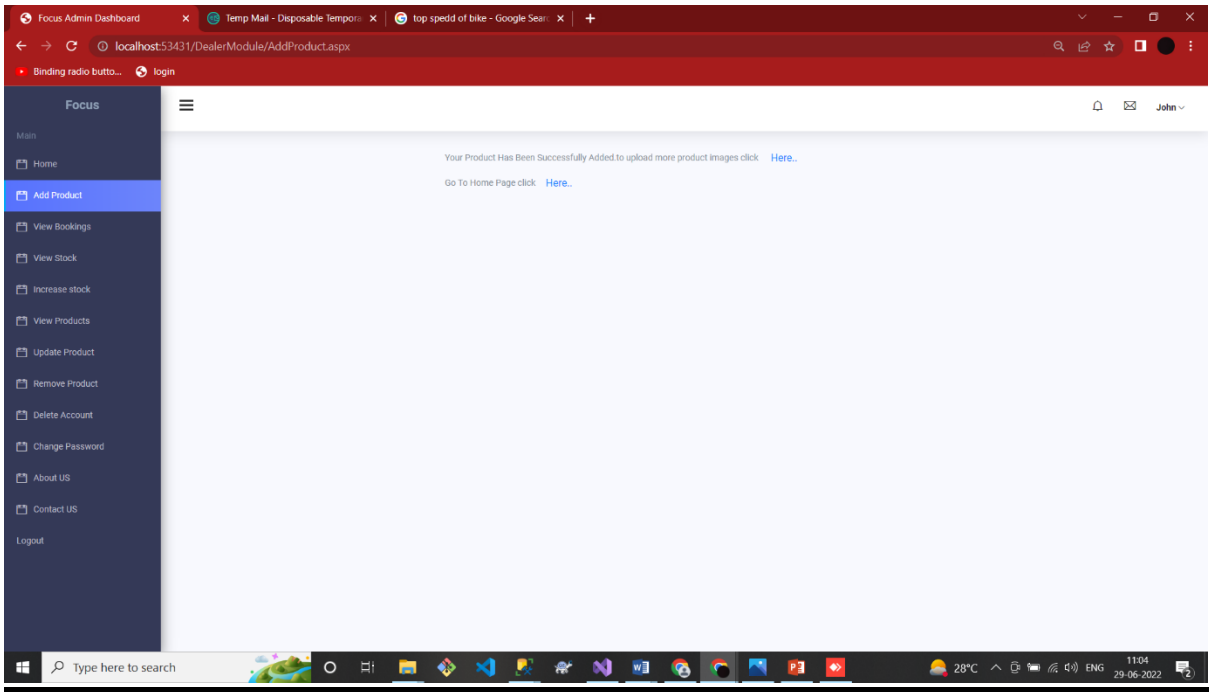
5.2Dealer Module



Dealer module contains add product; where they can provide the description of two wheeler they want to sell.

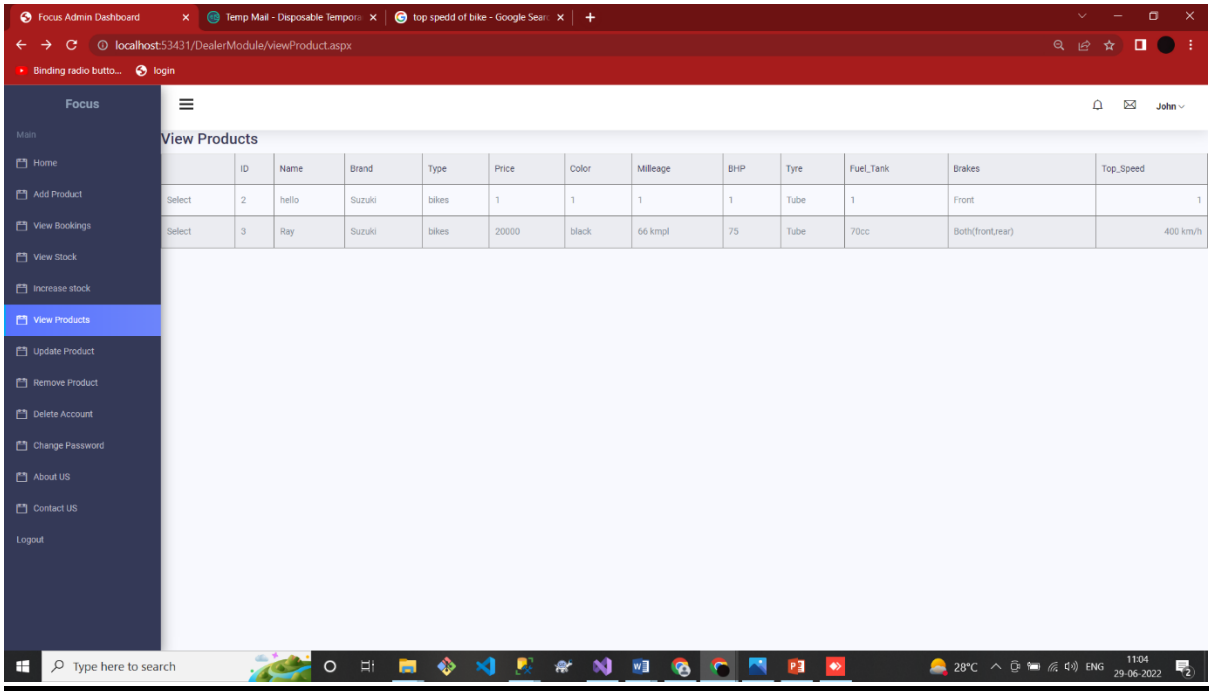






Product successfully added will be displayed on home page of general module with all the description of that two wheeler. And user will be able to make the booking for that particular two wheeler.

In addition to add product, dealer module also conatins **view product** where dealer can check the decription of its own product and to check the stock dealer module contains **view stock**

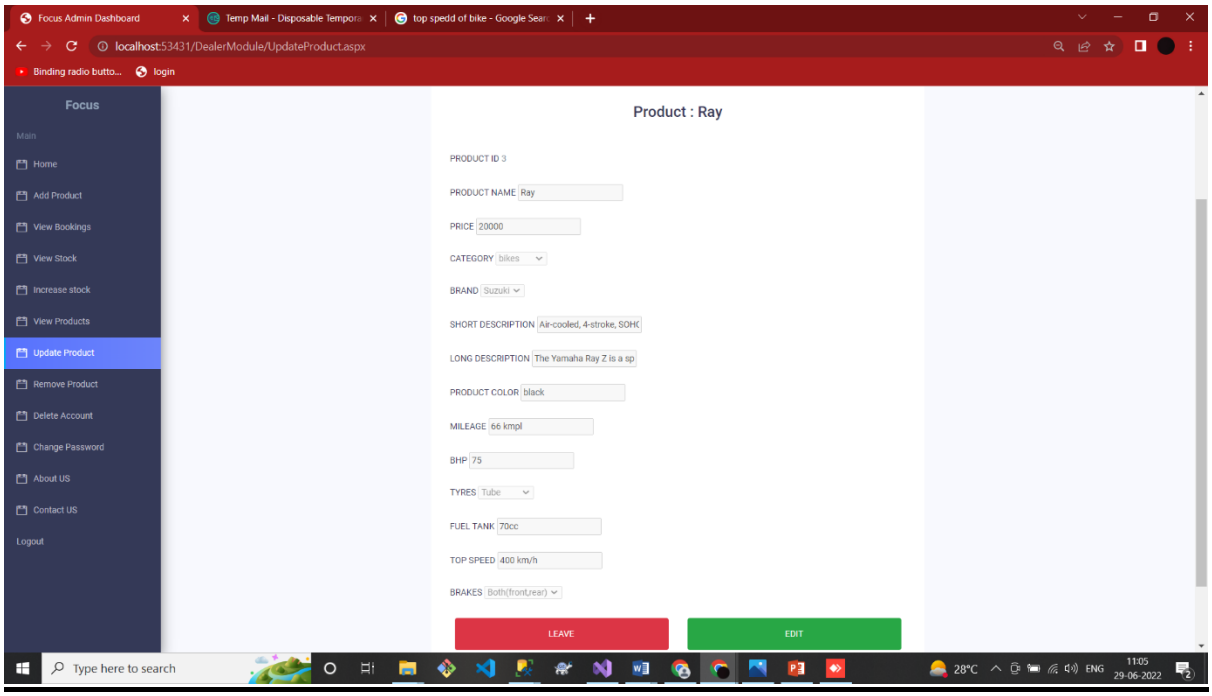



```
public void get_gridview_data()
    {
        string str;

        if (GridView1.Rows.Count == 0)
            lblnodatafound.Visible = true;
        else
            lblnodatafound.Visible = false;
    }
```

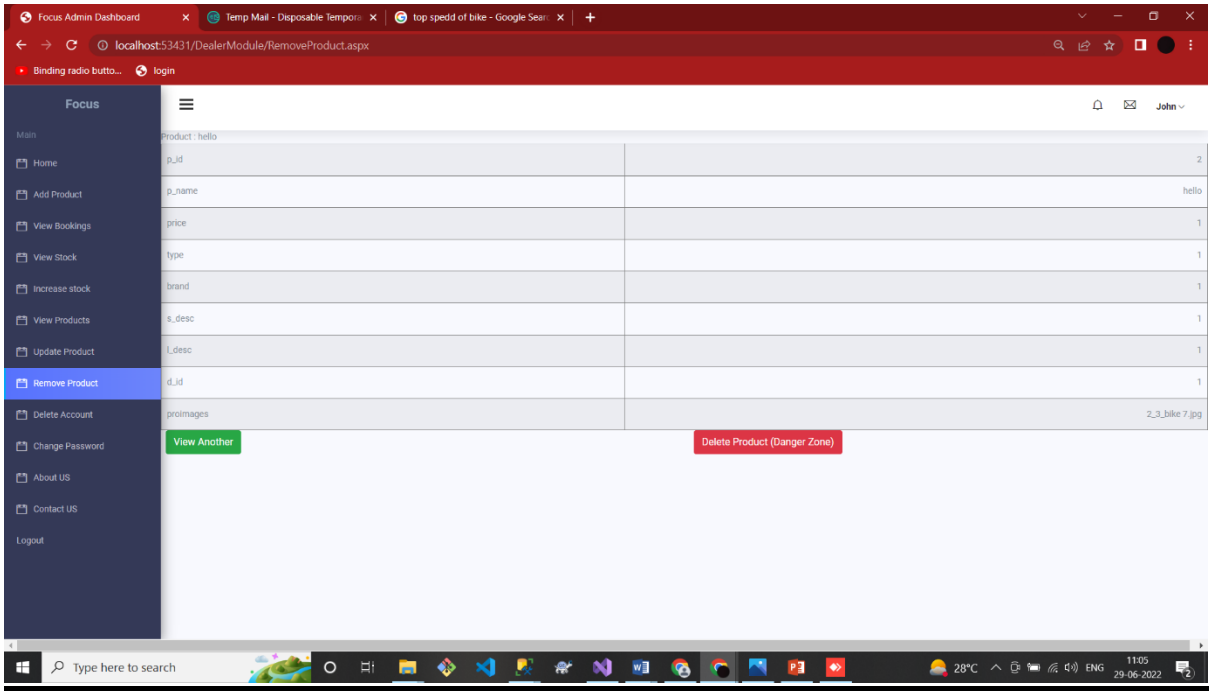
Dealer can also update /edit products (increase or decrease quantity of any product, change price etc.)

```
string str;
            str = "update product set p_name='" + txtpname.Text + "',price=" +
txtprice.Text + ", type=" + ddltype.SelectedValue.ToString() + ",brand=" +
ddlbrand.SelectedValue.ToString() + ",s_desc='" + txtsdesc.Text + "',l_desc='" +
txtldesc.Text + "' where p_id=" + Session["pid"].ToString();
            connectionclass obj = new connectionclass();
            obj.exe_Command(str);
            str = "update Specification set
product_color='"+txtcolor.Text+"',mileage='"+txtmileage.Text+"',bhp='"+txtbhp.Tex
t+"',tyre='"+ddltyres.SelectedItem.ToString()+"',brakes='"+ddlbrakes.SelectedItem
.ToString()+"',fueltank='"+txtfueltank.Text+"',topspeed='"+txttopspeed.Text+"'
where p_id="+Session["pid"].ToString();
            obj.exe_Command(str);
```

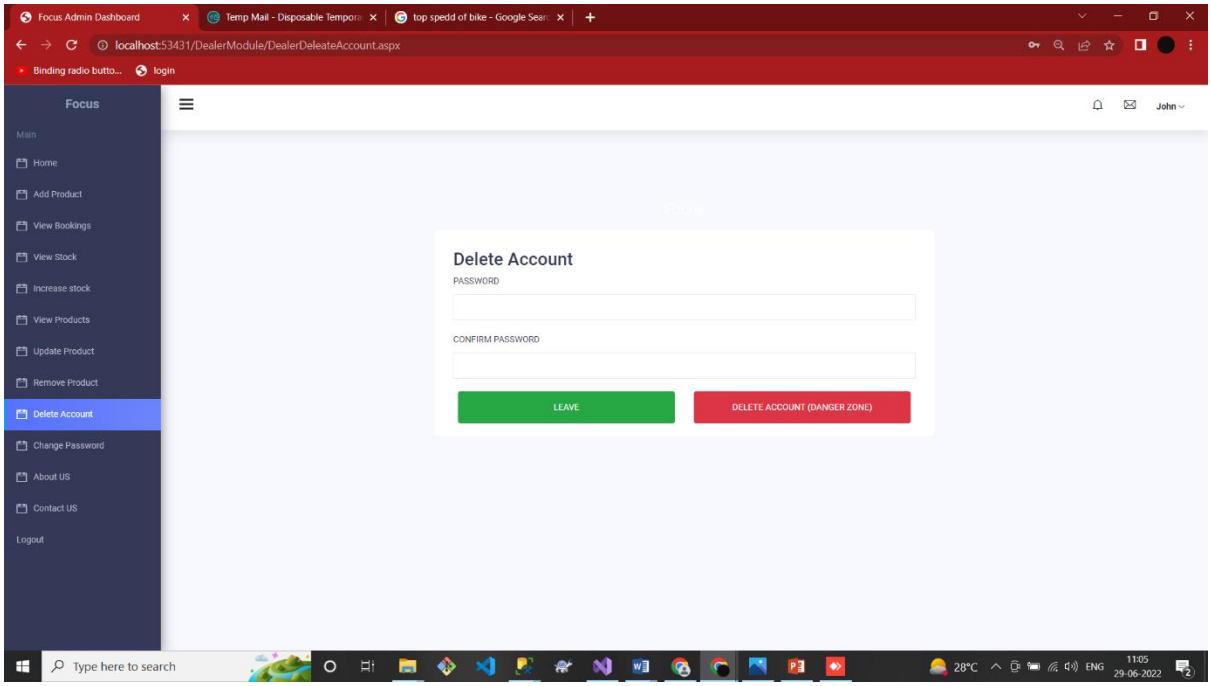
```
            Response.Write("<script>alert('product details sucessfully
updated')</script>");
            get_gridview_data();
            MultiView1.ActiveViewIndex = 0;
```



Dealer can remove products

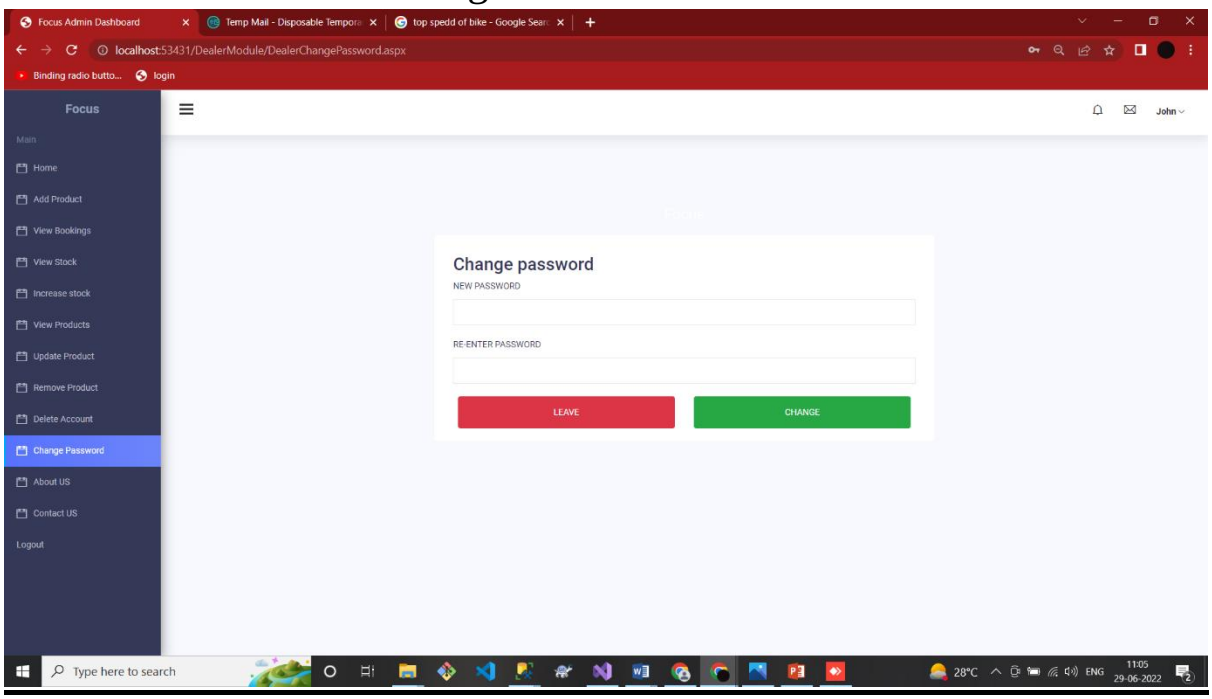


Dealer can Remove / Delete Account

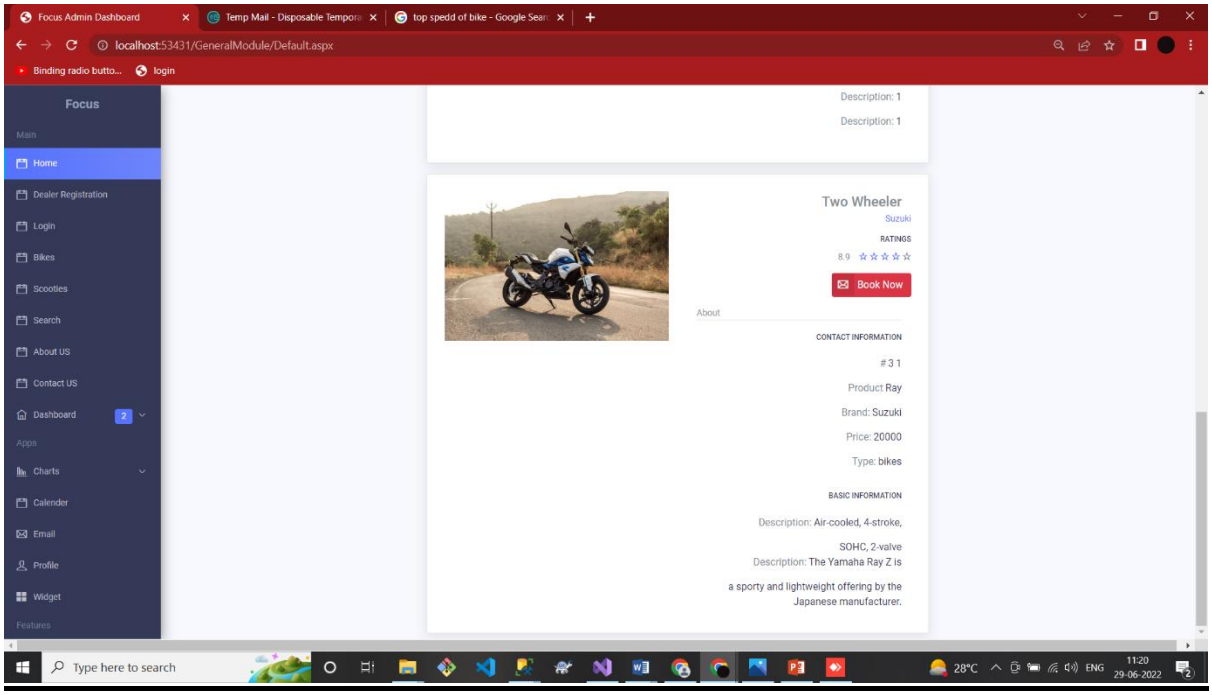



```
string str;
        str = "delete product where p_id=" + Session["pid"].ToString();
        connectionclass obj = new connectionclass();
        obj.exe_Command(str);

        str = "delete Specification where p_id=" + Session["pid"].ToString();
        obj.exe_Command(str);

        str = "delete stock where p_id=" + Session["pid"].ToString();
        obj.exe_Command(str);
        Response.Write("<script>alert('your product has been sucessfully de-
linked.')</script>");
        get_gridview_data();
        MultiView1.ActiveViewIndex = 0;
```

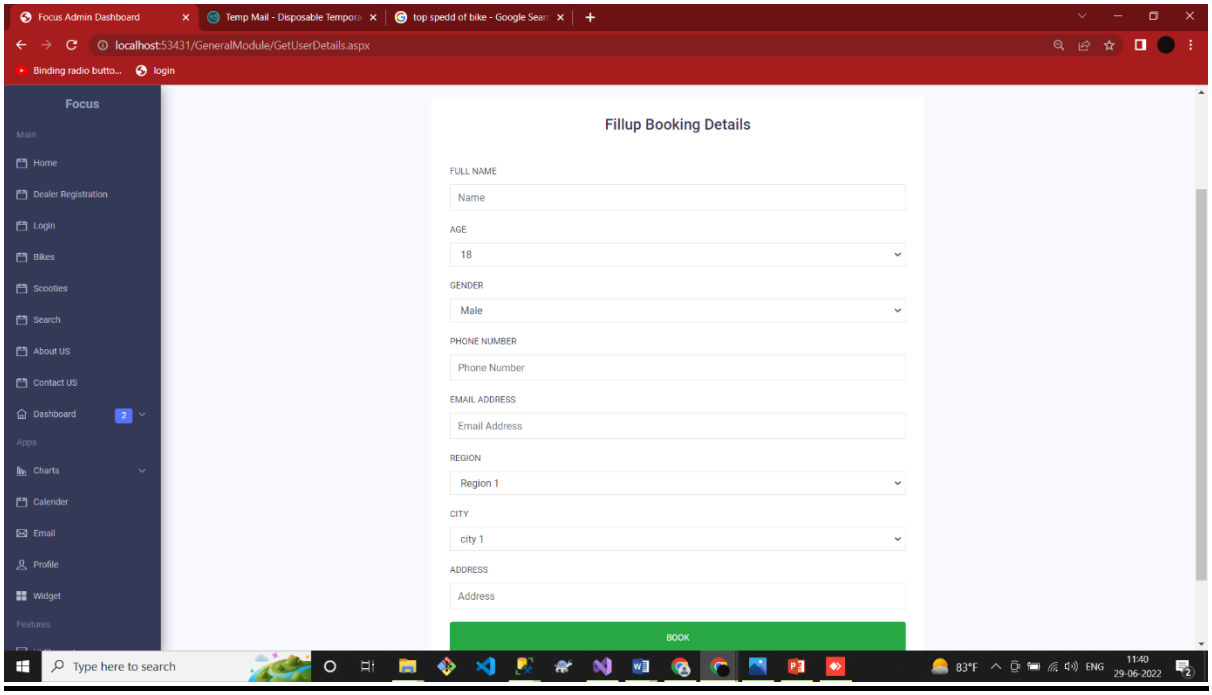
Change Password



Product added by the dealer displayed on the home page of general module

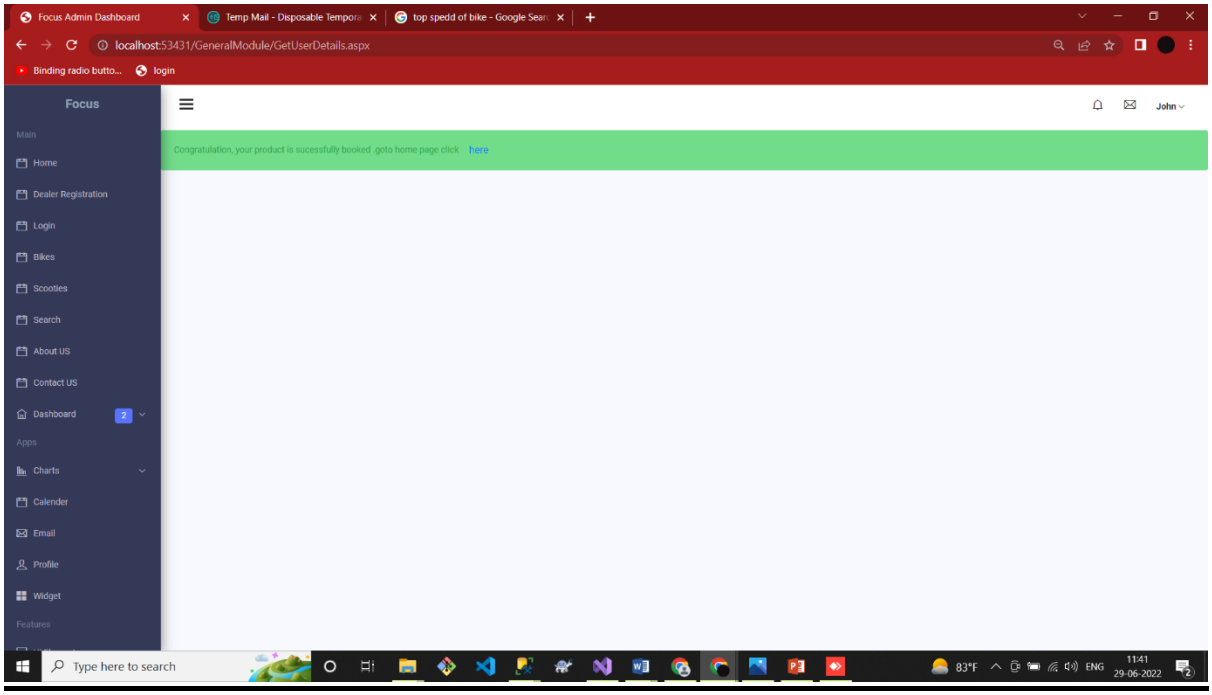


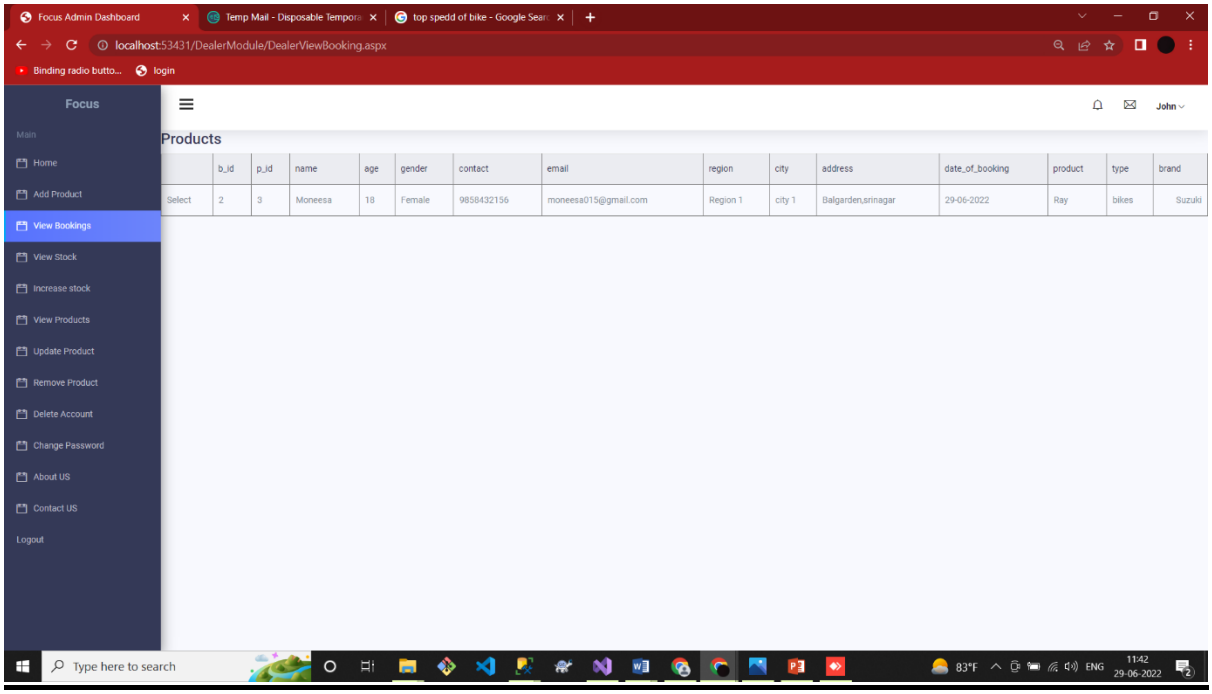
5.3User Module

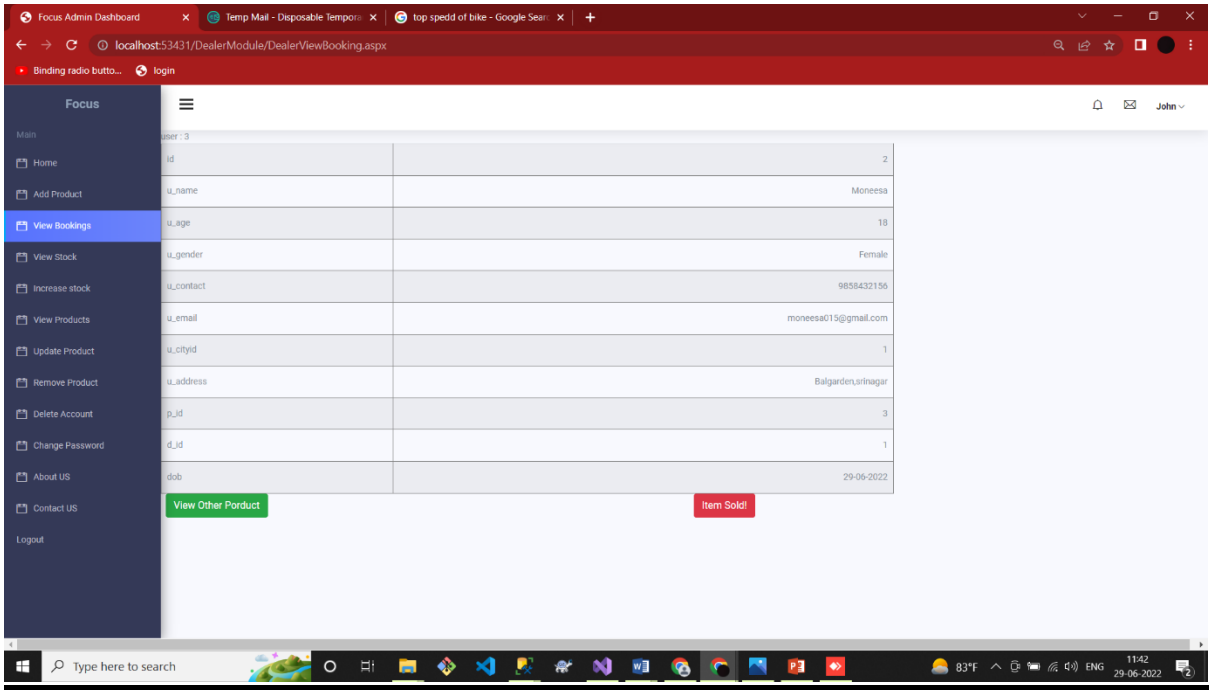


User booking for two wheeler

User will have to fill the form for booking of two wheeler and then the request will be send to the dealer who is selling that product.

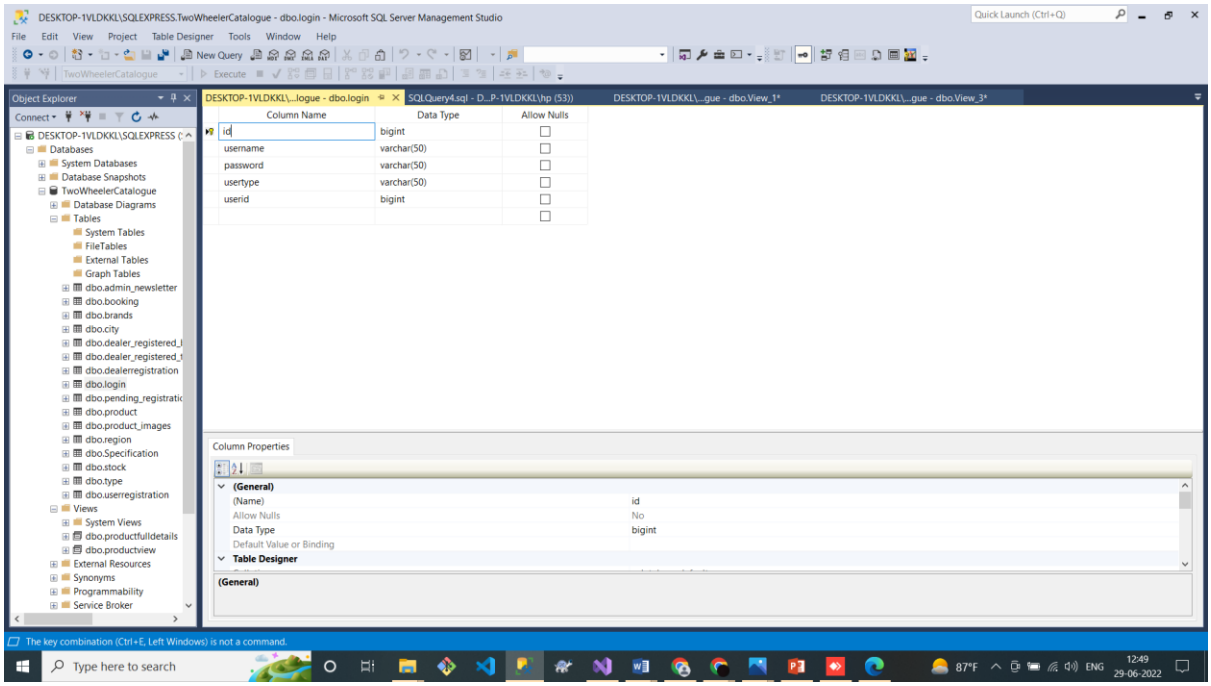


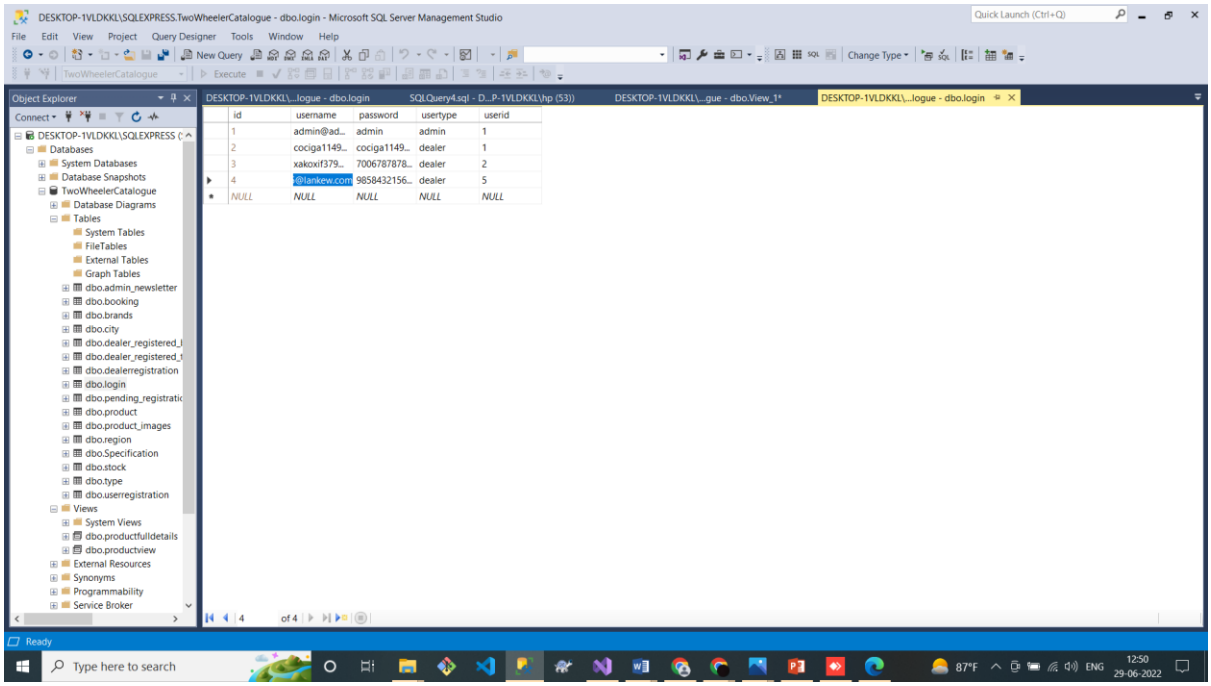


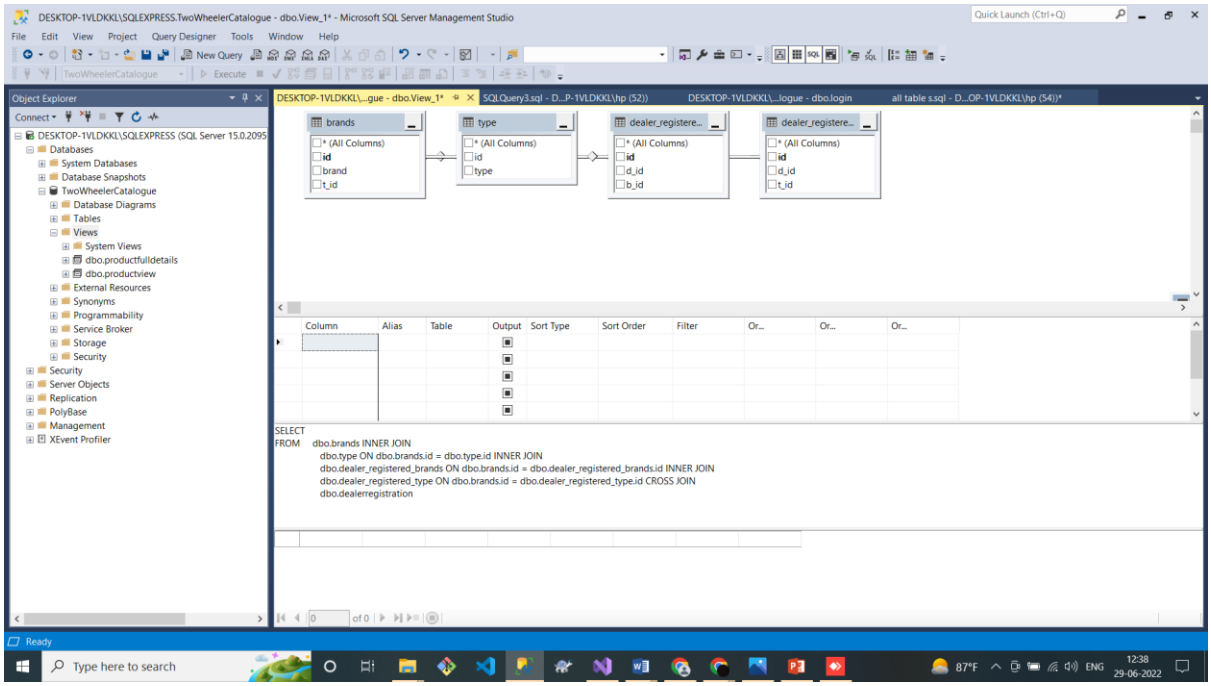


Dealer accepts the Booking for two Wheeler

6. Database Design







SELECT

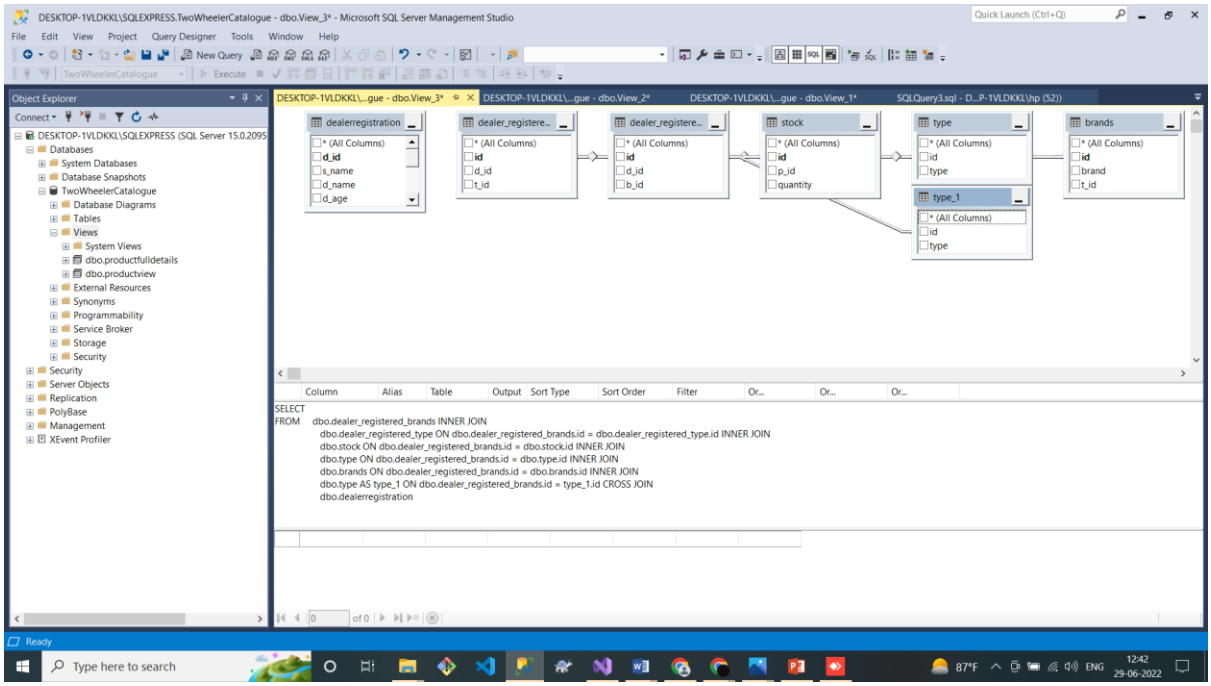
FROM dbo.brands INNER JOIN

dbo.type ON dbo.brands.id = dbo.type.id INNER JOIN

dbo.dealer_registered_brands ON dbo.brands.id = dbo.dealer_registered_brands.id INNER JOIN

dbo.dealer_registered_type ON dbo.brands.id = dbo.dealer_registered_type.id CROSS JOIN

dbo.dealerregistration



SELECT

FROM dbo.dealer_registered_brands INNER JOIN

dbo.dealer_registered_type ON dbo.dealer_registered_brands.id = dbo.dealer_registered_type.id INNER JOIN

dbo.stock ON dbo.dealer_registered_brands.id = dbo.stock.id INNER JOIN

dbo.type ON dbo.dealer_registered_brands.id = dbo.type.id INNER JOIN

dbo.brands ON dbo.dealer_registered_brands.id = dbo.brands.id INNER JOIN

dbo.type AS type_1 ON dbo.dealer_registered_brands.id = type_1.id CROSS JOIN

dbo.dealerregistration

7. Environmental Specifications

7.1Hardware Requirements

For server:-

- Processor : Dual Core
- RAM: 2GB
- Hard disk:10-20 GB
- IIS Server

For user:-

- Processor Dual Core or above
- RAM: 2GB or above
- Operating system: windows

7.2Software requirements

- Operating system: windows
- Development tools: Google Chrome (Visual Studio, SQL Server ,C#)
- Database: Sql Server Management Studio
- Documentation tool: MS-Word
- Presentations tool: MS-Power point

8. Future Enhancements

- Later , this windows application will get converted to an Android application so that it becomes easier to register

- We will include more functionalities as per user requirements.

- Not a single website is ever considered as complete forever because there is always some new requirement growing day by day.

- We will also provide a feature where dealers can provide their two wheelers for renting other than selling it

9. Bibliography

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