Bus Reservation System

Team-2 Members

Name	Role
Ankit Ghosh	Teamlead,UI,API, DB
JSL Prathyusha	WEB API,DB,UI
Pradyumna Biswal	UI,DB
Preeti Saha	DB,DAL
Asha HB	DB,DAL
Suraksha P	DAL,DB
Akanksha Bandi	DAL

Technology Used:

- Asp.Net Core MVC
- Database- SQL
- EF Framework- Databased Approach
- Asp.Net Core Web API

Modules:

- Admin Module
- User Module

Admin Module: Features:

- Login/Logout
- Crud Operation on Bus-Add/Search/Edit/Delete
- Admin Dashboard- Bus details report, booking report, Route details, Add bus.

User Module: Features:

- Registration & Login Module
- User Dashboard-Home, Contact us, Search bus.
- Search for availability of the Bus and Select Bus.
- Book your seat and boarding point.
- Payment Module.
- Download Ticket.

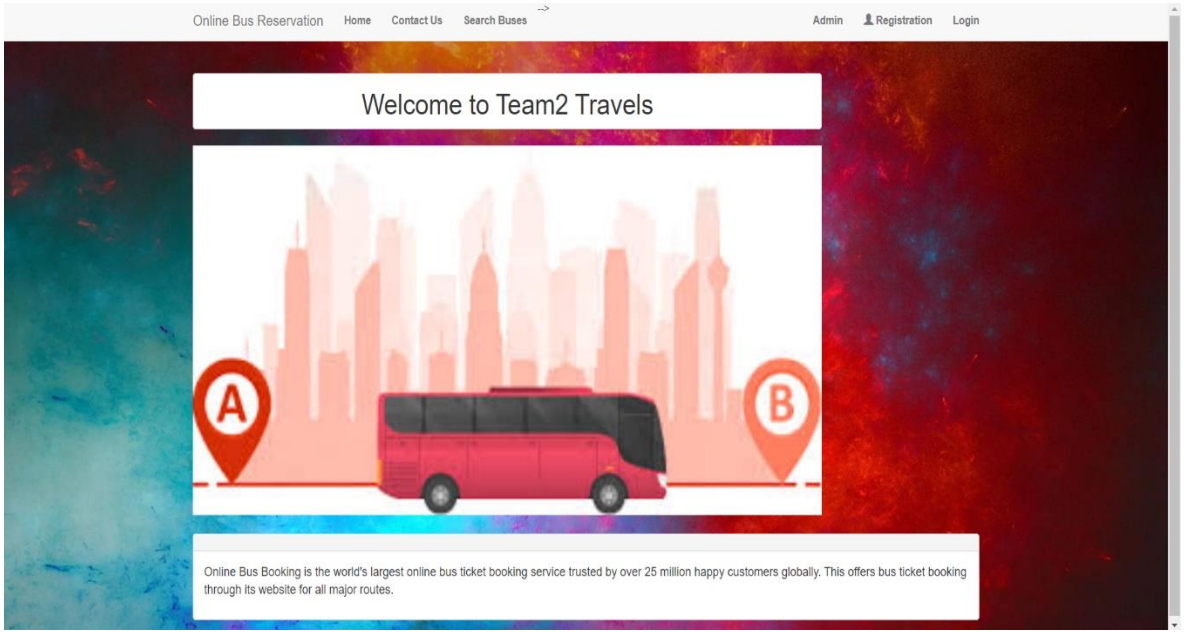
Database Overview:

Project Task Done by Teammates

Name	Task
Ankit Ghosh	❖ Database design inspection ❖ UI design flow and plan ❖ UI design ❖ Web API ❖ UI design changes
J S L Prathyusha	❖ ER diagram ❖ Insert values to database ❖ Working on MVC architecture ❖ Web API ❖ UI design changes
Pradyumna Biswal	❖ Database design inspection ❖ UI design flow and plan ❖ UI design, work and changes
Preeti Saha	❖ Building of basic structure of database. ❖ Building of database tables ❖ Final shape of database ❖ Working on MVC architecture ❖ Stored Procedure ❖ UI design changes
Asha H B	❖ Building of basic structure of database. ❖ Building of database tables ❖ Final shape of database ❖ Working on MVC architecture ❖ Stored Procedure ❖ UI design changes
Suraksha P	❖ ER diagram ❖ Insert values to database ❖ Working of DB first approach ❖ Working on MVC architecture ❖ UI design changes
Akanksha Bandi	❖ ER diagram ❖ Insert values to database ❖ Working of DB first approach ❖ Working on MVC architecture ❖ UI design changes

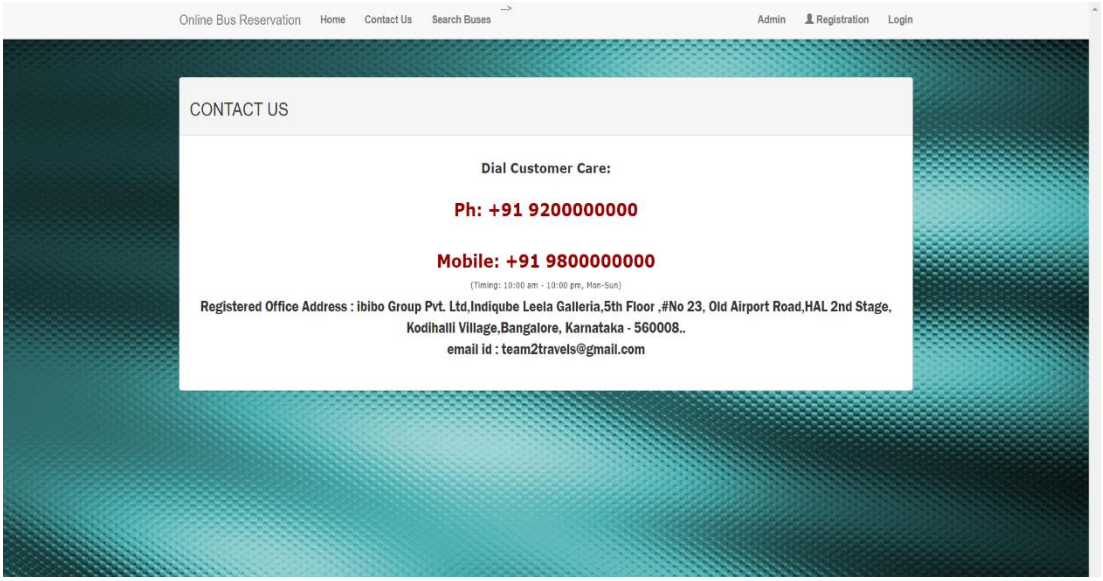
Project Highlights:

❖ Home screen Page:

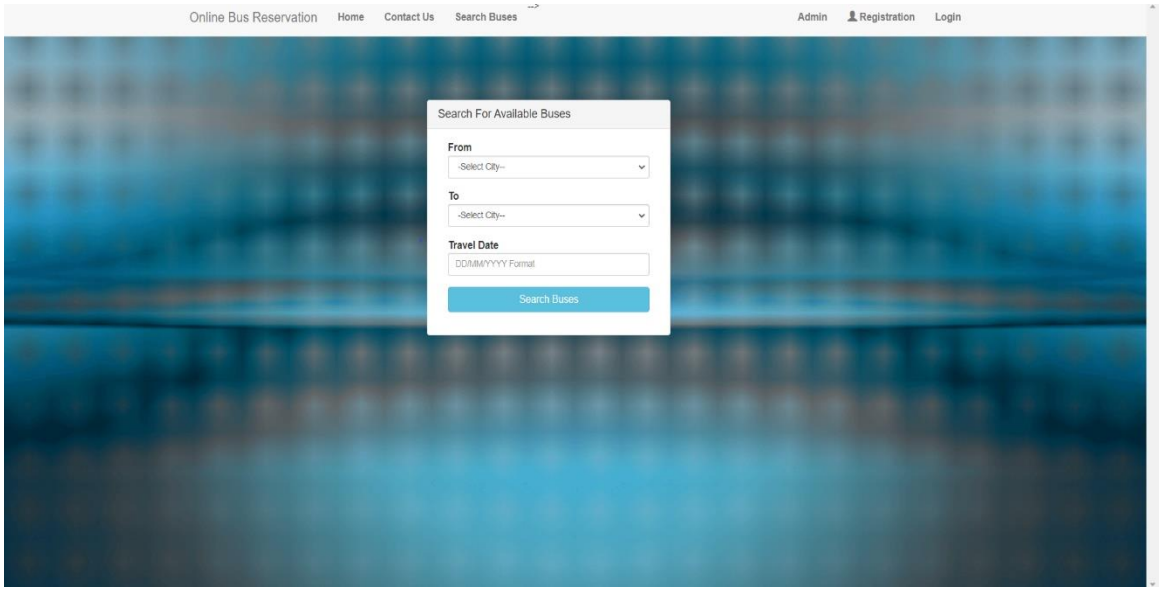


❖ This is the default home screen page showing the name of the travel agency and from here we can access to: -

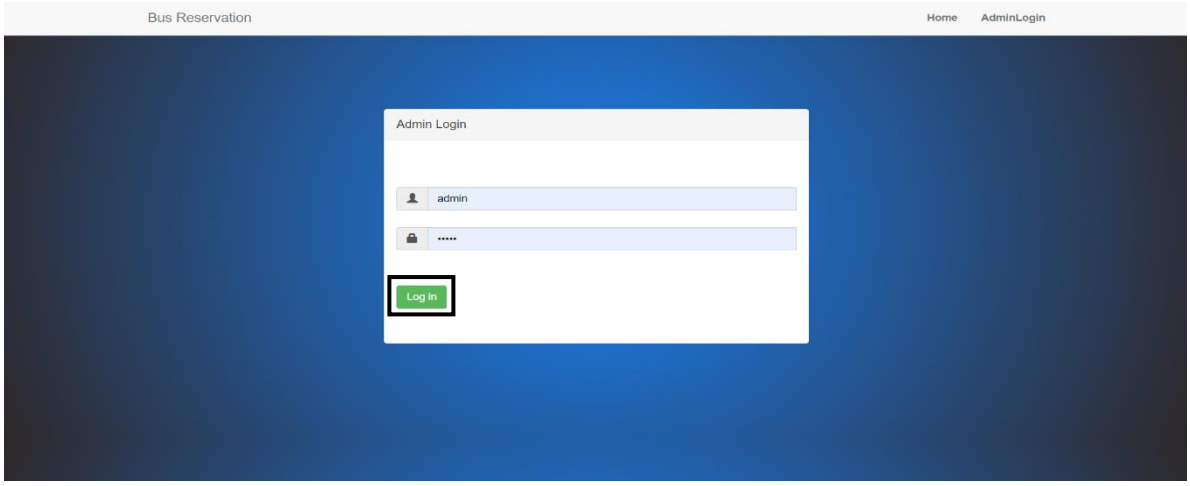
❖ Contact us page:



❖ Search bus:


Online Bus Reservation
Home
Contact Us
Search Buses
Admin
Registration
Login
Search For Available Buses
From
-Select City-
To
-Select City-
Travel Date
DD/MM/YYYY Format
Search Buses

❖ Admin Login Page:

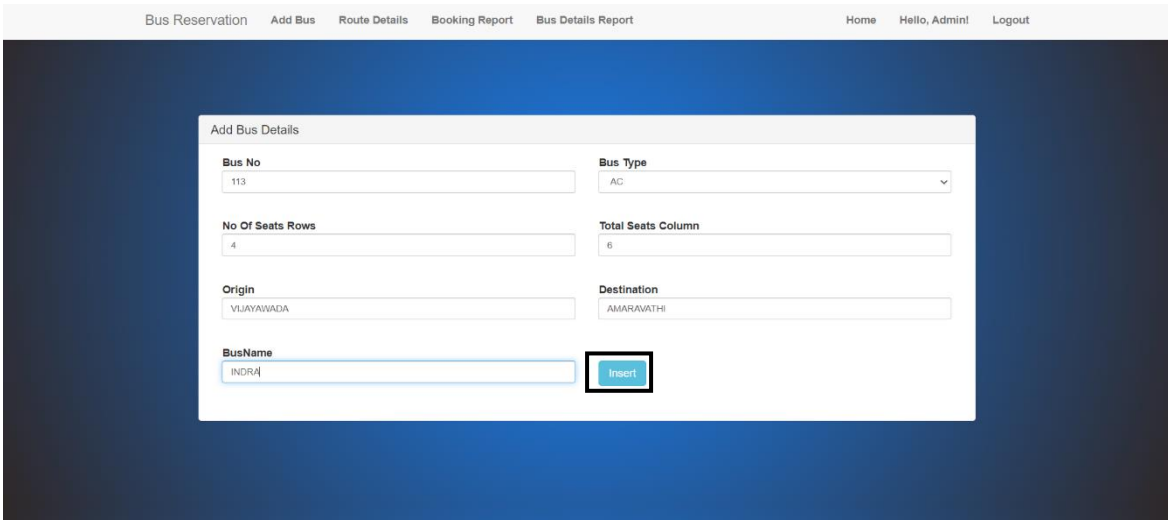


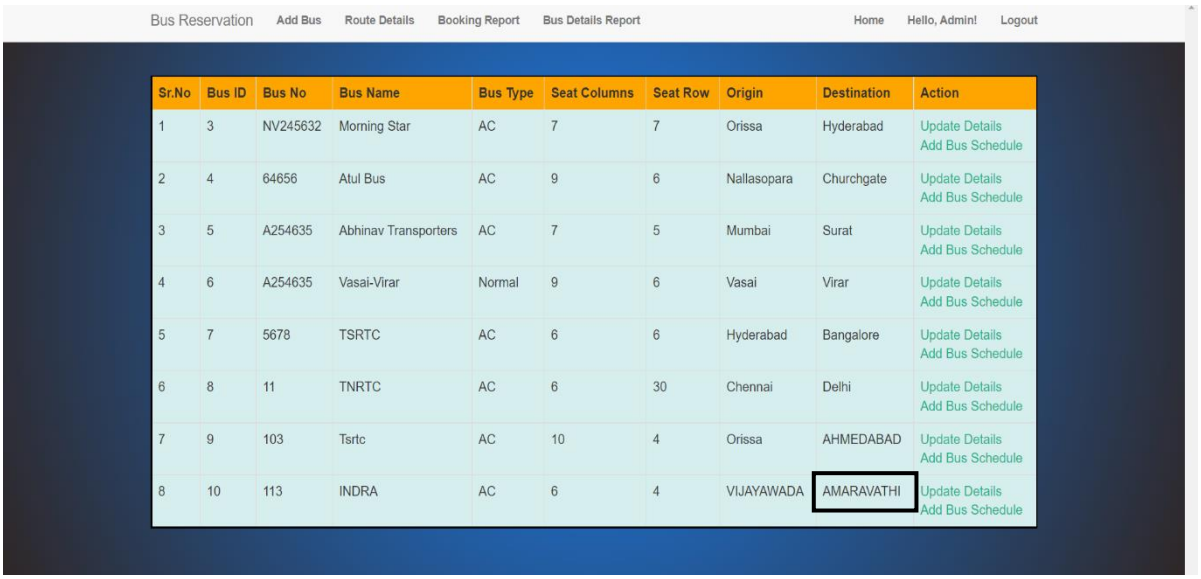
❖ After the Admin credentials are authorized, the Admin redirected to the Admin homepage and from the Action field he can Update Details of Bus and Add Bus Schedule, as shown below.

Sr.No	Bus ID	Bus No	Bus Name	Bus Type	Seat Columns	Seat Row	Origin	Destination	Action
1	3	NV245632	Morning Star	AC	7	7	Orissa	Hyderabad	Update Details Add Bus Schedule
2	4	64656	Atul Bus	AC	9	6	Nallasopara	Churchgate	Update Details Add Bus Schedule
3	5	A254635	Abhinav Transporters	AC	7	5	Mumbai	Surat	Update Details Add Bus Schedule
4	6	A254635	Vasai-Virar	Normal	9	6	Vasai	Virar	Update Details Add Bus Schedule
5	7	5678	TSRTC	AC	6	6	Hyderabad	Bangalore	Update Details Add Bus Schedule
6	8	11	TNRTC	AC	6	30	Chennai	Delhi	Update Details Add Bus Schedule
7	9	103	Tsrtc	AC	10	4	Orissa	AHMEDABAD	Update Details Add Bus Schedule

❖ Admin can do several things like:-

❖ Add Bus





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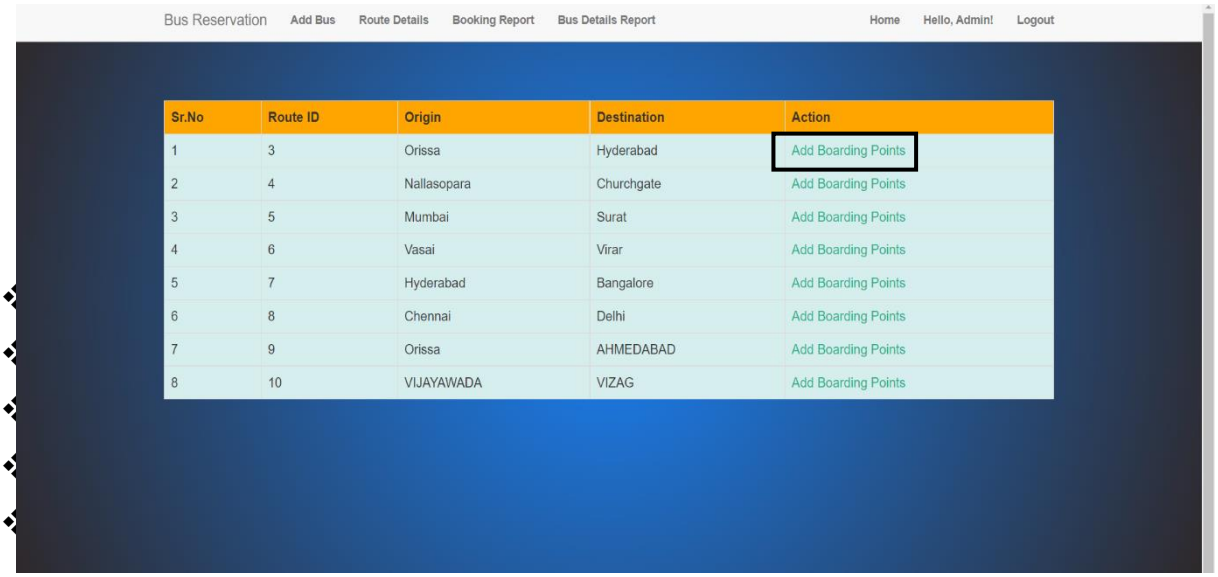
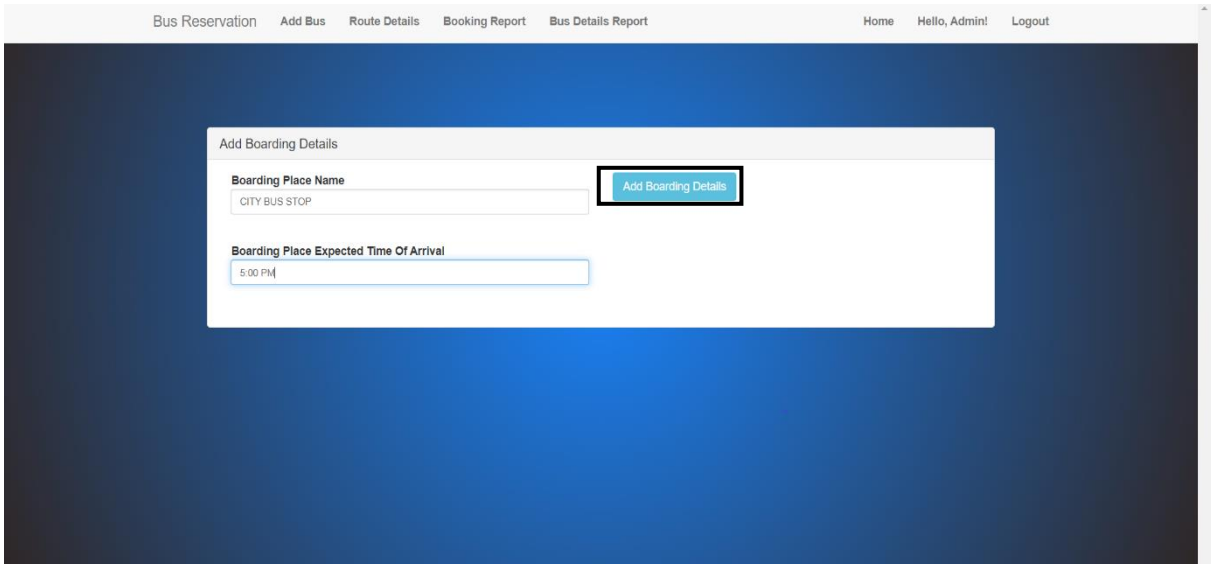
5	7	5678	TSRTC	AC	6	6	Hyderabad	Bangalore	Update Details Add Bus Schedule
6	8	11	TNRTC	AC	6	30	Chennai	Delhi	Update Details Add Bus Schedule
7	9	103	Tsrtc	AC	10	4	Orissa	AHMEDABAD	Update Details Add Bus Schedule
8	10	113	INDRA	AC	6	4	VIJAYAWADA	AMARAVATHI	Update Details Add Bus Schedule

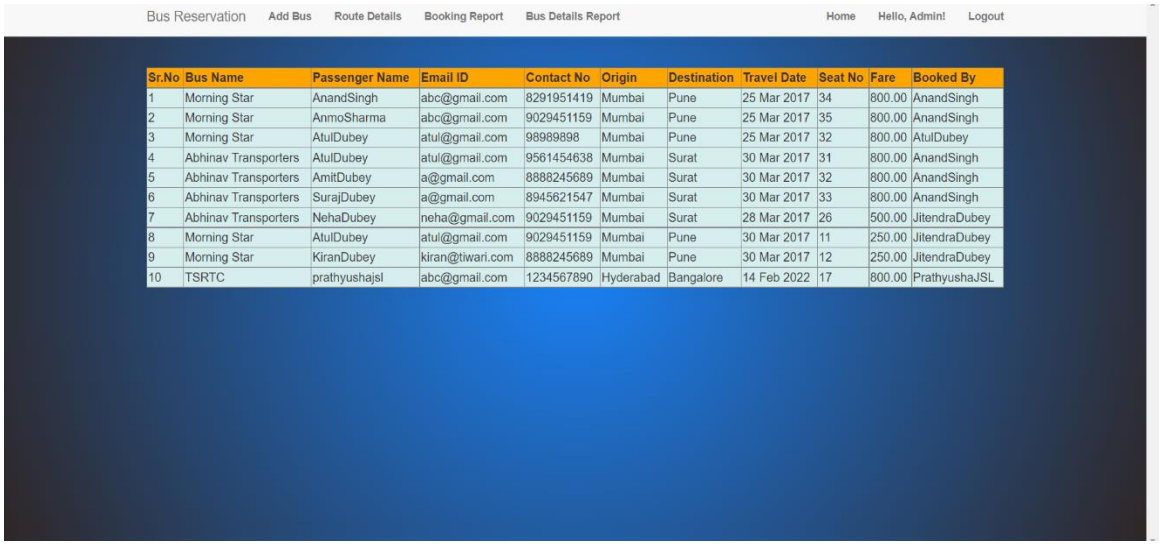
- Route Details
  - Add Boarding Details



Sr.No	Route ID	Origin	Destination	Action
1	3	Orissa	Hyderabad	Add Boarding Points
2	4	Nallasopara	Churchgate	Add Boarding Points
3	5	Mumbai	Surat	Add Boarding Points
4	6	Vasai	Virar	Add Boarding Points
5	7	Hyderabad	Bangalore	Add Boarding Points
6	8	Chennai	Delhi	Add Boarding Points
7	9	Orissa	AHMEDABAD	Add Boarding Points
8	10	VIJAYAWADA	VIZAG	Add Boarding Points



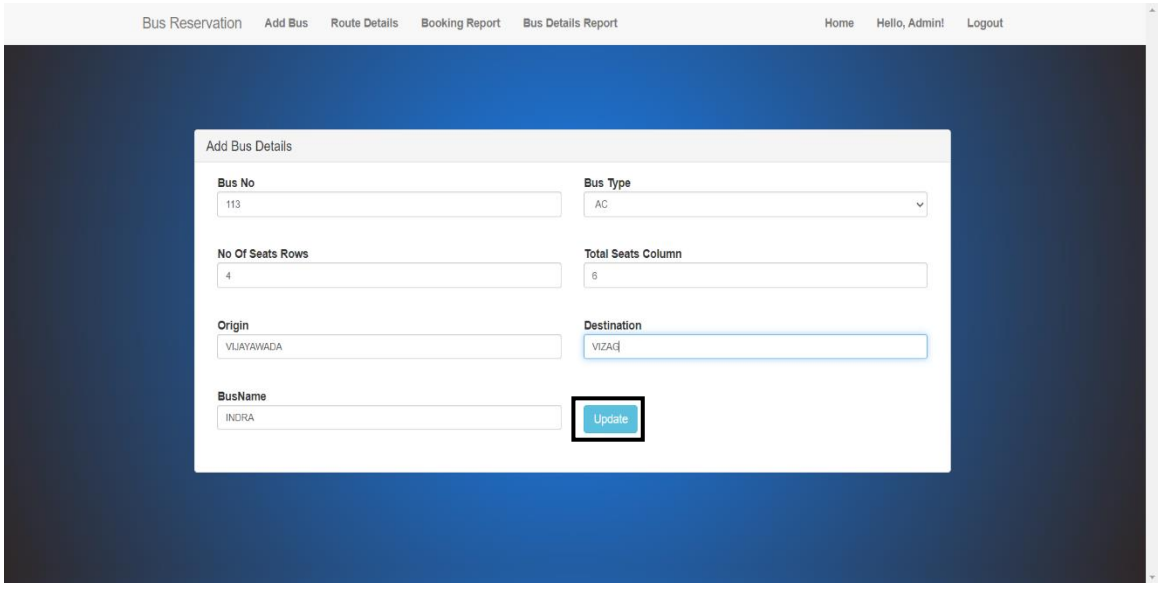
❖ Booking Report

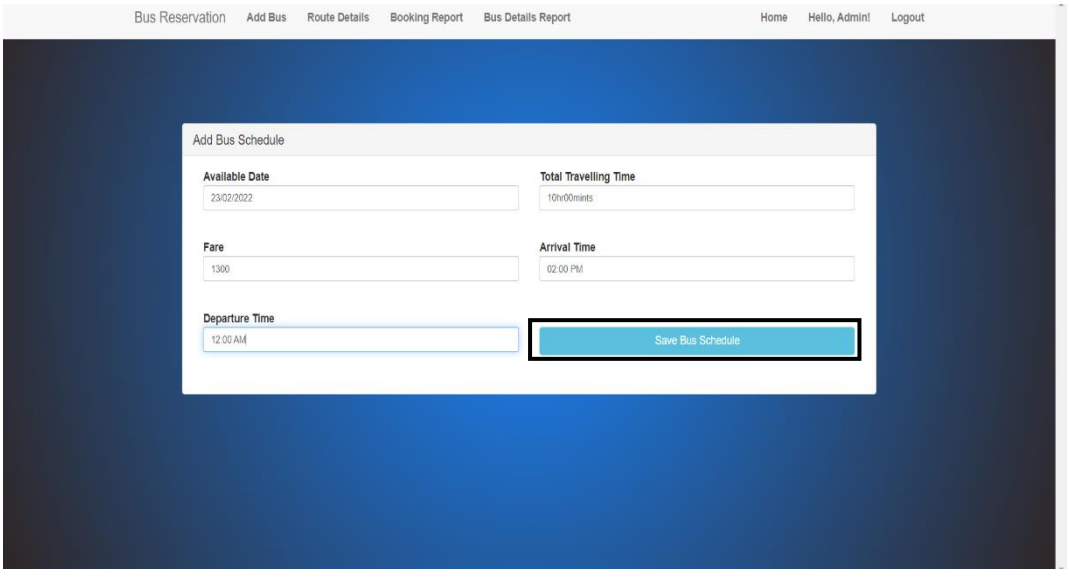


Sr.No	Bus Name	Passenger Name	Email ID	Contact No	Origin	Destination	Travel Date	Seat No	Fare	Booked By
1	Morning Star	AnandSingh	abc@gmail.com	8291951419	Mumbai	Pune	25 Mar 2017	34	800.00	AnandSingh
2	Morning Star	AnmoSharma	abc@gmail.com	9029451159	Mumbai	Pune	25 Mar 2017	35	800.00	AnandSingh
3	Morning Star	AtulDubey	atul@gmail.com	98989898	Mumbai	Pune	25 Mar 2017	32	800.00	AtulDubey
4	Abhinav Transporters	AtulDubey	atul@gmail.com	9561454638	Mumbai	Surat	30 Mar 2017	31	800.00	AnandSingh
5	Abhinav Transporters	AmitDubey	a@gmail.com	8888245689	Mumbai	Surat	30 Mar 2017	32	800.00	AnandSingh
6	Abhinav Transporters	SurajDubey	a@gmail.com	8945621547	Mumbai	Surat	30 Mar 2017	33	800.00	AnandSingh
7	Abhinav Transporters	NehaDubey	neha@gmail.com	9029451159	Mumbai	Surat	28 Mar 2017	26	500.00	JitendraDubey
8	Morning Star	AtulDubey	atul@gmail.com	9029451159	Mumbai	Pune	30 Mar 2017	11	250.00	JitendraDubey
9	Morning Star	KiranDubey	kiran@tiwari.com	8888245689	Mumbai	Pune	30 Mar 2017	12	250.00	JitendraDubey
10	TSRTC	prathyushajsl	abc@gmail.com	1234567890	Hyderabad	Bangalore	14 Feb 2022	17	800.00	PrathyushaJSL

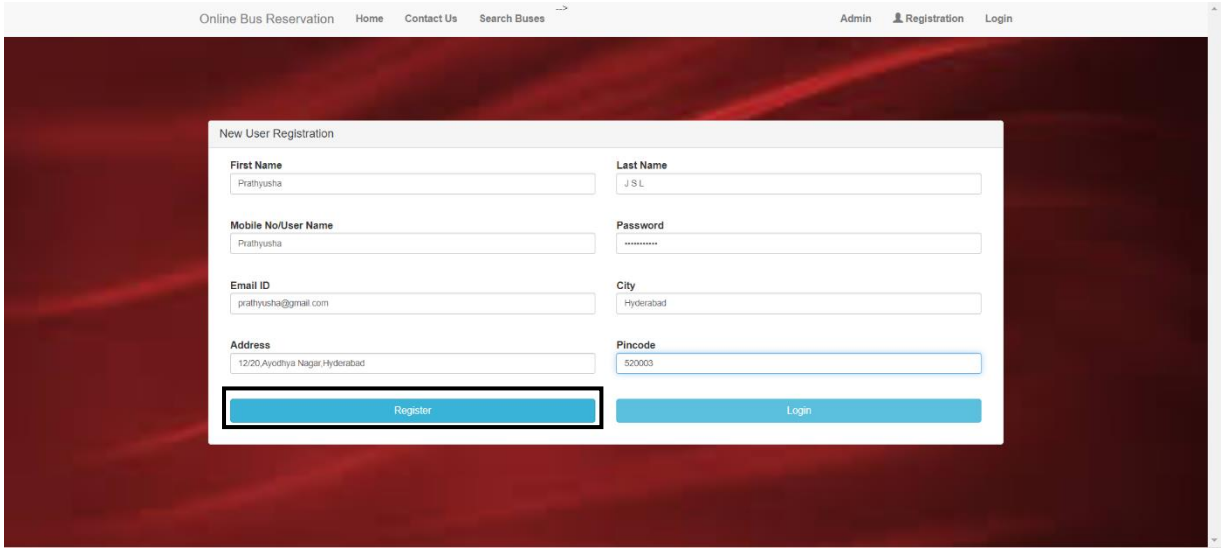
❖ Bus Details Report

- ➢ Update Details
- ➢ Add Bus schedule

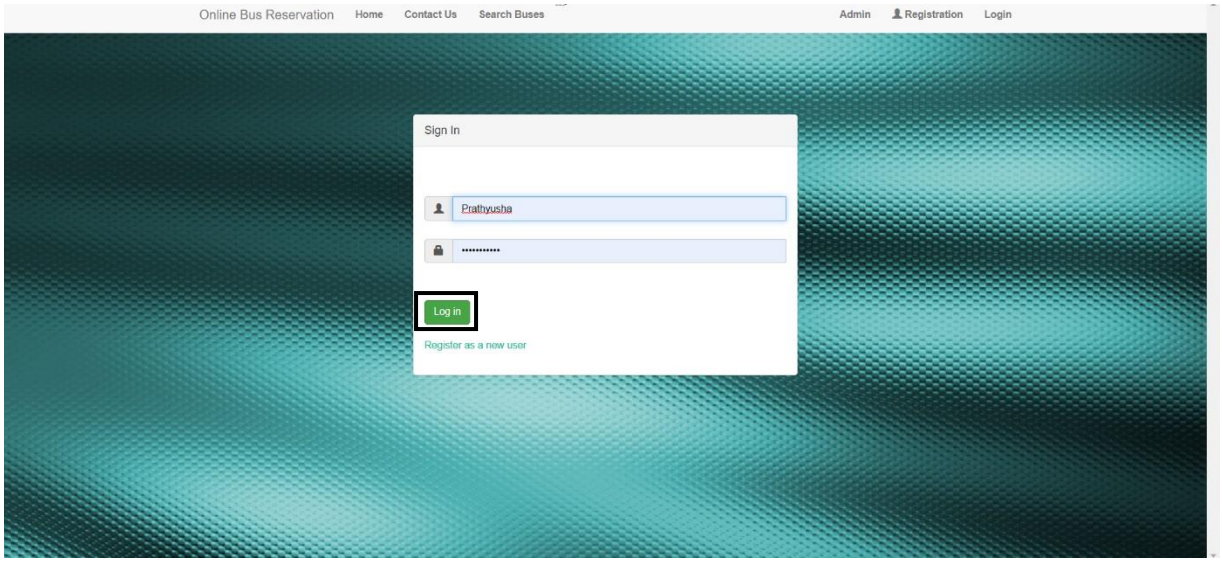




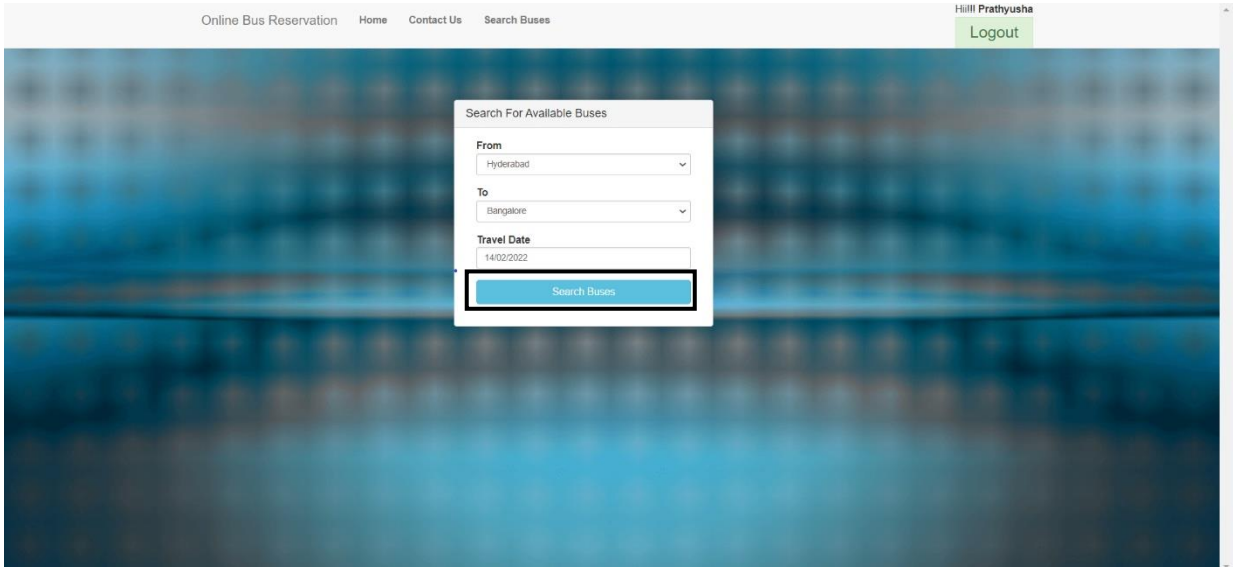
User Registration Page:

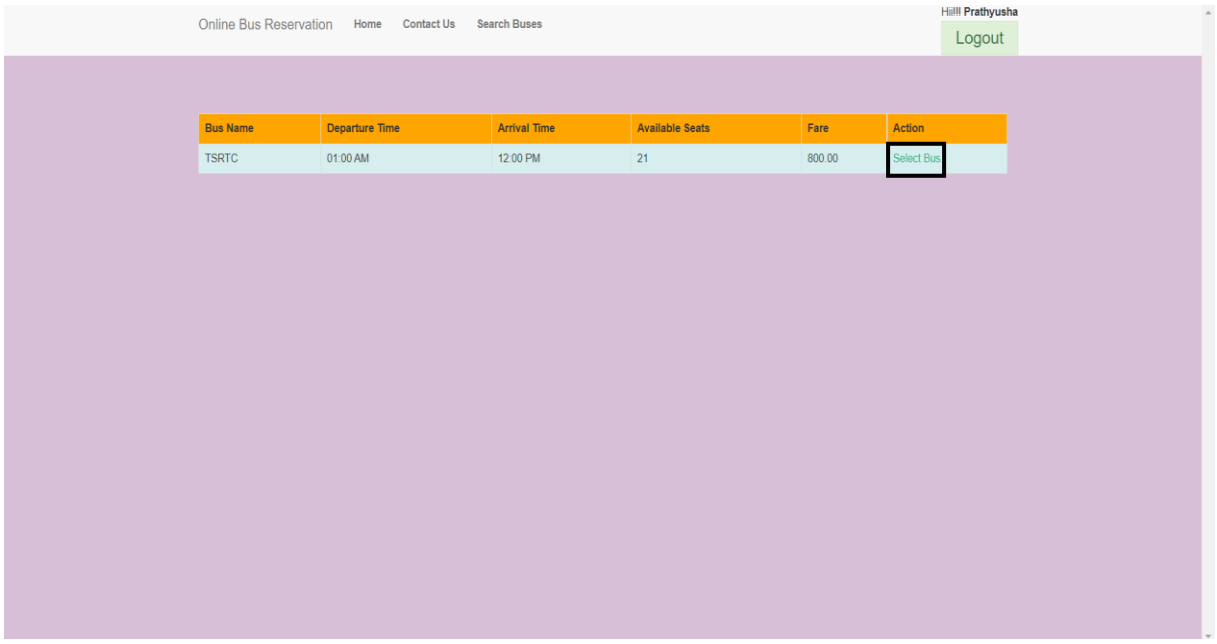


User Login Page:

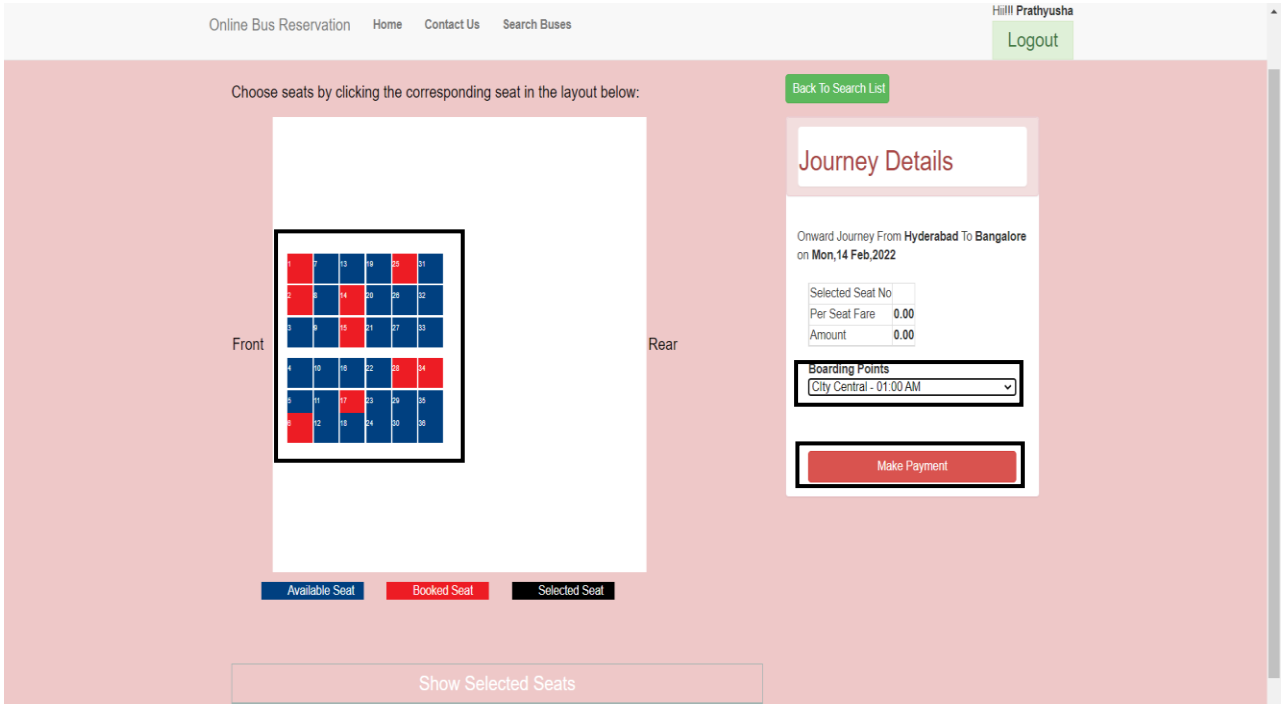


Search Bus Availability:

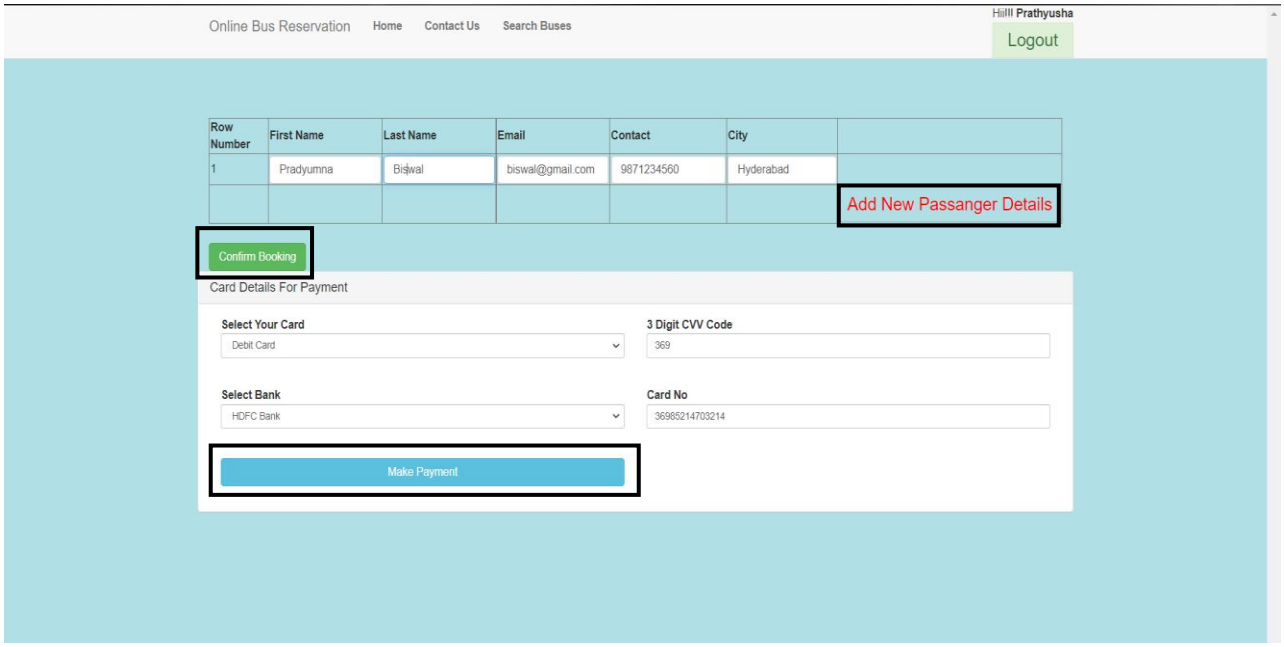




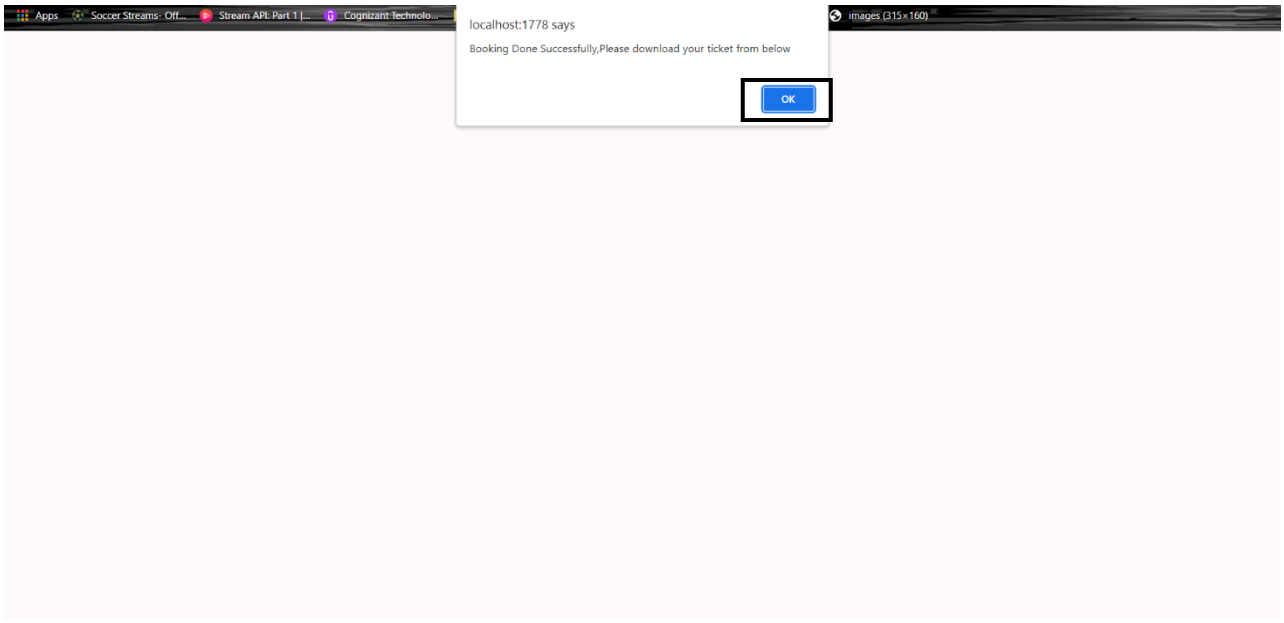
Selection of Seat and selection of Boarding point:



Confirming the passenger's details and making payment:

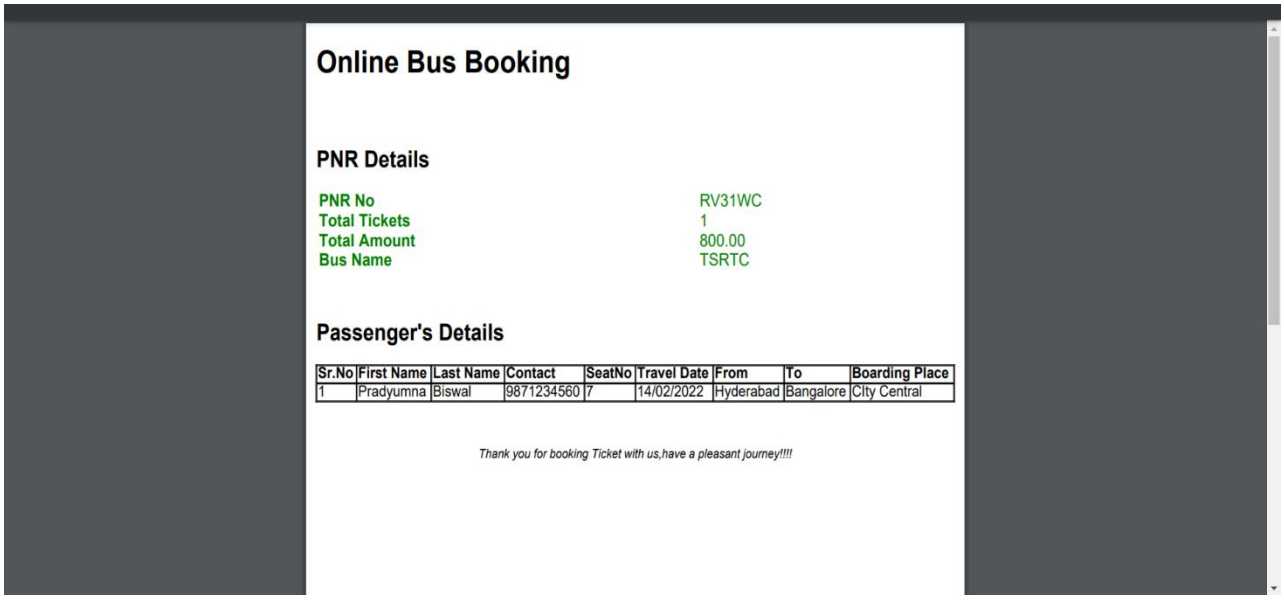


Confirmation message for booked ticket:



Final booking report:

Downloaded ticket:



Online Bus Booking

PNR Details

PNR No	RV31WC
Total Tickets	1
Total Amount	800.00
Bus Name	TSRTC

Passenger's Details

Sr.No	First Name	Last Name	Contact	SeatNo	Travel Date	From	To	Boarding Place
1	Pradyumna	Biswal	9871234560	7	14/02/2022	Hyderabad	Bangalore	City Central

Thank you for booking Ticket with us,have a pleasant journey!!!!

❖ Admin Login Code:

```
namespace BusBookingProject.Admin
{
   public partial class AdminLogin :
System.Web.UI.Page
   {
      protected void Page_Load(object sender,
EventArgs e)
      {

      }

      protected void btnLogin_Click(object
sender, EventArgs e)
      {
         if(txtUserId.Text=="admin" &&
txtPassword.Text=="admin")
         {
            Session["UserName"] = "Admin";

Response.Redirect("BusDetailsReport.aspx");
         }
         else
         {

ScriptManager.RegisterClientScriptBlock(this,
this.GetType(), "alertMessage",
"alert('Username and password is incorrect
please enter valid credentials')", true);
         }
      }
   }
```

❖ User Login Code:

```
public partial class Login : System.Web.UI.Page
{       #region Global Variable
    SqlConnection connString = new
SqlConnection(ConfigurationManager.ConnectionStrings["OnlineBusBookingCon
nectionString"].ToString());
    #endregion
    protected void Page_Load(object sender, EventArgs e)
    {
     }
    private DataSet getUserData()
    {
        DataSet dsGetData = new DataSet();
        SqlCommand sqlCmd = new SqlCommand();
        if(connString.State==ConnectionState.Closed)
        {
            connString.Open();
        }
        sqlCmd.CommandType = CommandType.StoredProcedure;
        sqlCmd.Parameters.AddWithValue("@MobileNo",
Convert.ToString(txtUserId.Text));

sqlCmd.Parameters.AddWithValue("@Password",Convert.ToString(txtPassword.T
ext));
        sqlCmd.CommandText = "ispUserLogin";
        sqlCmd.Connection = connString;
        SqlDataAdapter sda = new SqlDataAdapter(sqlCmd);
        sda.Fill(dsGetData);
        return dsGetData;
    }
}
```

❖ User Registration Code:

```
   private int Regitration()
{
   try
   {
      int ResultCout = 0;
      SqlCommand sqlCmd = new SqlCommand();
      if (connString.State == ConnectionState.Closed)
      {
         connString.Open();
      }
      sqlCmd.CommandType = CommandType.StoredProcedure;
      sqlCmd.Parameters.AddWithValue("@FName", Convert.ToString(txtFirstName.Text));
      sqlCmd.Parameters.AddWithValue("@LName", Convert.ToString(txtLastName.Text));
      sqlCmd.Parameters.AddWithValue("@EmailId", Convert.ToString(txtEmailID.Text));
      sqlCmd.Parameters.AddWithValue("@Address", Convert.ToString(txtAddress.Text));
      sqlCmd.Parameters.AddWithValue("@City", Convert.ToString(txtCity.Text));
      sqlCmd.Parameters.AddWithValue("@PinCode", Convert.ToString(txtPincode.Text));
      sqlCmd.Parameters.AddWithValue("@ContactNo",
     Convert.ToString(txtMobileNo.Text));
      sqlCmd.Parameters.AddWithValue("@Password", Convert.ToString(txtPassword.Text));
      sqlCmd.Parameters.AddWithValue("@Ret_Val", SqlDbType.BigInt);
      sqlCmd.Parameters["@Ret_Val"].Direction = ParameterDirection.Output;
      sqlCmd.CommandText = "ispUserRegistration";
      sqlCmd.Connection = connString;
      sqlCmd.ExecuteNonQuery();
      ResultCout = Convert.ToInt32(sqlCmd.Parameters["@Ret_Val"].Value);
      return ResultCout;
   }
   catch (Exception ex)
   {
      throw;
   }
}
```

❖ Adding Bus Code:

```
private int AddBusDetails()
 {
    int ResultCout = 0;
    SqlCommand sqlCmd = new SqlCommand();
    if (connString.State == ConnectionState.Closed)
    {
       connString.Open();
    }
    sqlCmd.CommandType = CommandType.StoredProcedure;
    sqlCmd.Parameters.AddWithValue("@BusNo", Convert.ToString(txtBusNo.Text));
    sqlCmd.Parameters.AddWithValue("@BusName", Convert.ToString(txtBusName.Text));
    sqlCmd.Parameters.AddWithValue("@BustType",
  Convert.ToString(ddlBusType.SelectedItem.Text));
    sqlCmd.Parameters.AddWithValue("@SeatColumn",
  Convert.ToInt32(txtSeatColumn.Text));
    sqlCmd.Parameters.AddWithValue("@SeatRow", Convert.ToInt32(txtSeatRows.Text));
    sqlCmd.Parameters.AddWithValue("@Origin", Convert.ToString(txtOrigin.Text));
    sqlCmd.Parameters.AddWithValue("@Destination",
  Convert.ToString(txtDetination.Text));
    sqlCmd.CommandText = "ispAddBusDetails";
    sqlCmd.Connection = connString;
    ResultCout = sqlCmd.ExecuteNonQuery(); ;
    return ResultCout;
 }
```

❖ Updating Bus Code:

```
 private int UpdateData()
{
   int ResultCout = 0;
   SqlCommand sqlCmd = new SqlCommand();
   if (connString.State == ConnectionState.Closed)
   {
      connString.Open();
   }
   sqlCmd.CommandType = CommandType.StoredProcedure;
   sqlCmd.Parameters.AddWithValue("@BusID",
Convert.ToInt32(Request.QueryString["BusID"]));
   sqlCmd.Parameters.AddWithValue("@BusNo", Convert.ToString(txtBusNo.Text));
   sqlCmd.Parameters.AddWithValue("@BusName",
Convert.ToString(txtBusName.Text));
   sqlCmd.Parameters.AddWithValue("@BusType",
Convert.ToString(ddlBusType.SelectedItem.Text));
   sqlCmd.Parameters.AddWithValue("@seatColumn",
Convert.ToInt32(txtSeatColumn.Text));
   sqlCmd.Parameters.AddWithValue("@SeatRow",
Convert.ToInt32(txtSeatRows.Text));
   sqlCmd.Parameters.AddWithValue("@Origin", Convert.ToString(txtOrigin.Text));
   sqlCmd.Parameters.AddWithValue("@Destination",
Convert.ToString(txtDetination.Text));
   sqlCmd.CommandText = "ispUpdateBusData";
   sqlCmd.Connection = connString;
   ResultCout = sqlCmd.ExecuteNonQuery(); ;
   return ResultCout;
}
```

❖ Search Bus Code:

```
private void bindSearchDetails()
{
  DataSet dsGetData = new DataSet();
  SqlCommand sqlCmd = new SqlCommand();
  if (connString.State == ConnectionState.Closed)
  {
     connString.Open();
  }
  sqlCmd.CommandType = CommandType.StoredProcedure;

sqlCmd.Parameters.AddWithValue("@Origin",Convert.ToString(Request.QueryString["Or
igin"]));
  sqlCmd.Parameters.AddWithValue("@Destination",
Convert.ToString(Request.QueryString["Destination"]));

sqlCmd.Parameters.AddWithValue("@TravelDate",Convert.ToString(Request.QueryString
["TravelDate"]));
  sqlCmd.CommandText = "ispGetAvailableBusDetails";
  sqlCmd.Connection = connString;
  SqlDataAdapter sda = new SqlDataAdapter(sqlCmd);
  sda.Fill(dsGetData);
  if(dsGetData.Tables[0].Rows.Count>0)
  {
     hlinkSearch.Visible = false;
     gvBusDetails.DataSource = dsGetData.Tables[0];
     gvBusDetails.DataBind();
  }
  else
  {
     ScriptManager.RegisterClientScriptBlock(this, this.GetType(), "alertMessage",
  "alert('Trip not available,Please search again with different date')", true);
     hlinkSearch.Visible = true;
  }}
```

❖ Booked seat Code:

```
    private DataTable getBookedSeat()
{
   DataTable dt = new DataTable();
   SqlCommand sqlCmd = new SqlCommand();
   if (connString.State == ConnectionState.Closed)
   {
      connString.Open();
   }
   sqlCmd.CommandType = CommandType.StoredProcedure;
   sqlCmd.Parameters.AddWithValue("@BusID",
   Convert.ToInt32(Request.QueryString["BusID"]));
   sqlCmd.Parameters.AddWithValue("@TravelDate",
   Convert.ToString(Request.QueryString["TravelDate"]));
   sqlCmd.CommandText = "ispGetBookedSeatNo";
   sqlCmd.Connection = connString;
   SqlDataAdapter sda = new SqlDataAdapter(sqlCmd);
   sda.Fill(dt);
   return dt;
}
```

❖ Making payment:

```
   private void addCardDetails()
{

   string newFare = Convert.ToString(Request.QueryString["Fare"]);
   string[] fareArray = newFare.Split(',').Select(str => str.Trim()).ToArray();
   decimal amount=0;
   for(int i=0;i<fareArray.Length;i++)
   {
      amount+=Convert.ToDecimal(fareArray[i]);
   }
   SqlCommand sqlCmd = new SqlCommand();
   if (connString.State == ConnectionState.Closed)
   {
      connString.Open();
   }
   sqlCmd.CommandType = CommandType.StoredProcedure;
   sqlCmd.Parameters.AddWithValue("@UserID",Convert.ToInt32(Session["UserID"]));
   sqlCmd.Parameters.AddWithValue("@CardType",
   Convert.ToString(ddlCardType.SelectedItem.Text));
   sqlCmd.Parameters.AddWithValue("@BankName",
   Convert.ToString(ddlBank.SelectedItem.Text));
   sqlCmd.Parameters.AddWithValue("@CVVNo", Convert.ToString(txtCode.Text));
   sqlCmd.Parameters.AddWithValue("@CardNo", Convert.ToString(txtCardNo.Text));
   sqlCmd.Parameters.AddWithValue("@TotalAmount", Convert.ToDecimal(amount));

   sqlCmd.CommandText = "ispAddCardDetails";
   sqlCmd.Connection = connString;
   sqlCmd.ExecuteNonQuery();
}
```