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CHAPTER 1
INTRODUCTION

1.1 Introduction to project

In this project a detailed review of tour and travels management system.The main objectives of this website to know the package related to the trip and journey with best facility andcurrent offer. Searching will be very easy. At a single click will be able to fetch the required data. Nowadays, there are multiple travel packages existing from the various websites to approximately all the locations over the karnataka. The Book your yathra travel management system will be helpful for tourism.

1.2 Objectives if the project

1.Ticket activities.
2.Creation of a Customer id.
3.Assign a bus Tickets according to customer's demand.
4.Advance bookings.
5.BusTicket Cancellation.
6.Feedbacks.

1.3 Project analysis

This application consists of following modules:
1.Admin module
2.User module

Admin Module

The admin module will be used by the administrator/ Principal to monitor everything and has all the access required such as report, grant/deny etc.

User Module

A user Module will be used by the user to book bus tickets

CHAPTER 2

INTRODUCTION TO VISUAL STUDIO 2019

Microsoft Visual Studio is an integrated development environment [IDE] from Microsoft. It is used to develop computer programs as well websites, web apps, web services, and mobile apps. Visual studio uses Microsoft Software development platform such as windows API, windows Forms, windows presentation foundation, windows and Microsoft Silverlight. It can provide both native and manage code. Visual Studio includes a code editor supporting intelligence [The code completion Component] as well as code refactoring. The integrated debugger works both as source level debugger and machine level debugger, other built in tools Include code profiles, designer for GUI applications, web designer, class Designer and database scheme designer.

Visual Studio supports 36 different programming languages and allows The code editor and debugger support nearly any programming languages Provided a language specific services exit in built-in language include C++, Visual basic, .Net, C#, F#, Java script, Typescript, xml, XSLT and CSS.

2.1 INTRODUCTION TO VISUAL STUDIO

IMPROVED SEARCH

- Quick launch, new search experience faster and effective search result appear dynamically and result can often include key board shortcuts for command.
- Visual Studio 2019 is used to develop Android, iOS, and Windows mobile applications. Using C#, JavaScript and C++ it can build the mobile apps. It has high code reuse and native capabilities. We can test developed mobile apps easily.
- We can install it in a faster way compared to previous Visual Studio versions. We can install it in a minimum of four minutes. It is a lightweight component.
- Visual Studio enhancements are offered for building .ASP .Net web applications.
- For C#, new C# 8.0 features include recursive pattern matching, for digging into the structure of an object, and switch expressions, a concise version of switch statements.

Some of the new features in visual studio 2019:

1. Refactoring.
2. Intelli code.
3. Code clean-up.
4. Per-monitor aware[PMA]
5. Test explorer.
6. .Net core.
7. Collaborate.
8. Git-first work flow.
9. Integrated code reviews.

2.2 INTRODUCTION TO .NET FRAMEWORK

.Net framework [pronounced as "Dot net"] is a software framework Develops by Microsoft that runs primarily on Microsoft windows. It includes a large class library called framework class library and provides language interoperability across several programming language. Programs written for .Net framework execute in a software environment [in contrast to hardware environment] named common language runtime. As such, computer code written using .Net framework is called 'managed code'. Framework class library and common language runtime constitute the .Net framework. Programmers produce by the software by combining their source code with .net framework and other libraries is intended to be used by most new application created for windows platform. Microsoft also produces an integrated development environment [IDE] for .Net framework called Visual Studio.

.Net framework began as propriety software, although the firm worked to standardize the software stack almost immediately. There are various implement of .Net. Each implementation allows .Net code to execute in difference places the Linux, mac OS, windows, IOS android etc,.

ARCHITECTURE OF .NET FRAMEWORK:

The two major components of .Net framework are:

1. The common language runtime [CLR]: Its execution the engine that handles running applications. It provides services like thread management, garbage collection, type-safety, exception handling and etc.
2. The class library: It provides a set of API's and types for common functionality. It provides types of string, dates, numbers etc...

FEATURES OF .NET FRAMEWORK:

- .Net applications are written in the C#, F# or visual basic programming language.
- Code is compiled into language – agonistic common intermediate language[CIL].
- .Net framework is used to create and run software applications.
- .Net Apps can run on many operating system using different implementations of
- .Net.
- .Net framework is used to running .Net on windows.
- Asynchronous Programming.
- Security.

2.3 INTRODUCTION TO CSHARP[C#]

C sharp [C#] is an modern, general purpose, object oriented programming developed by Microsoft and approved by European computer manufacture association[ECMA]and international standards organizations[ISO].C# was developed by Anders Hejlsberg and His team during the development of .Net framework. C# is designed for common language infrastructure [CLI] which consists of executable code and runtime environment that allows use of various high level languages on different computer platforms and architectures. Although C# constructs closely follow traditional high- level languages C and C++ and being an object oriented programming language. It has strong resembled with

Java, it has numerous strong programming features that make it end earing to a number of programmers worldwide.

- ✓ **The following reasons make C# widely professional language are:**
  - It is easy to learn.
  - It is infrastructure.
  - It is produced efficient programs.
  - It can be complied on variety on computer platforms.
  - It is part of .Net framework.

- ✓ **Important Features of C#:**
  - Automatic garbage collection.
  - Boolean conditions.
  - Standard library.
  - Assembly versioning.
  - Integrated with windows.
  - Indexers.
  - Conditional compilation
  - Easy-to-use generics.
  - Structured programming language.
  - Fast speed
  - Type safety.

- ✓ **Integrated Development Environment[IDE]for C#:**

Microsoft provides the following development tools for C# programing are:

- Visual studio 2010.
- Visual C# 2010 express.
- Visual web developer.

- ✓ **C# is used for:**

- Mobile applications.
- Desktop applications.
- Web applications.
- Web services.
- Games.
- Database applications.

C# is intended to be suitable for writing applications for both hosted and embedded systems, ranging from the very large that use sophisticated operating system, down to very small having dedicated functions. Although C# applications are intended to be economically with regard to memory and processing power requirement.

2.4 INTRODUCTION TO MICROSOFT SQL SERVER

Microsoft SQL server is a relational database management system [RDMS] develop by Microsoft. This product is built for basic function of storing retrieving data as required by other applications. It can be run on either on same computer or on another computer or an network. It is a software developed by Microsoft which is implemented from the specification of RDBMS.

It is platform dependent, it as both GUI and common based software and supports SQL language which is an IBM product, non-procedural, common database and case intensive language.

USAGE OF SQL SERVER:

- To create of SQL server.
- To maintain databases.
- To analysis the data through SQL server analysis services [SAS].
- To generate reports through SQL server reporting services [SRS].

MICROSOFT SQL SERVER COMPONENTS:

Workstation: - They are installed in every device SQL server operating machine. There are just interface to interact with server.

Server components: - They are installed in centralized server. There are providing the services like SQL server, SQL agent server so on.

SQL server is a powerful tool for training information into opportunity. Industry leading support for XML, enhanced tools for system management, training and expectation scalability and reliability make SQL server the best choice for enterprise. Prior to the edition, SQL Server was only available for Windows. One of the biggest changes in SQL Server is that it is now available on Linux and Dockers containers. This means you can also run SQL Server on a Mac. Prior to the edition, SQL Server was only available for Windows. One of the biggest changes in SQL Server is that it is now available on Linux and Dockers containers. This means you can also run SQL Server on a Mac. SQL Server is a client/server database management system (DBMS). This means that you can have many different " client" machines all connecting to SQL Server at the same time. And each one of those client machines could be connecting via a different tool.

➢ FEATURES OF MICROSOFT SQL SERVER :

- Internet Integration.
- Scalability and Availability.
- Replication.
- Database tuning advisor.
- Memory – optimized objects enhancements.

Monitoring the databases for optimal query performance, creating and maintaining required indexes, and dropping rarely-used, unused, or expensive indexes is a common database administration task. SQL Server can now assist database administrators in performing these routine operations by identifying problematic query execution plans and fixing SQL plan performance problems. Automatic tuning begins with continuously monitoring the database, and learning about the workload that it serves.

- **Some typical database administration and programming tasks could include:**

  - Create & maintain databases
  - Create & maintain tables
  - Create & maintain other database objects such as stored procedures, views,
  - Create & maintain and schedule data backups
  - Import/export data
  - Replication
  - Create & maintain users, roles
  - Optimization tasks

SQL Server also includes optional services that you can choose whether or not to install, depending on your needs. For example, there's Reporting Services, Analysis Services, Integration Services, R Services, etc. However, the availability of these services may depend on your platform (most of these weren't available in the first release of SQL Server for Linux).

CHAPTER 3

3.1 Hardware and Software Requirements:

Hardware requirements:

- RAM: 4 GB or Above.
- Hard disk: 500 GB or Above
- System type: 64-bit operating
- processor: intel core 3 & above

Software requirements:

- Front End: C#
- Back End: SQL server management studio
- Operating System: Windows 8.1 or above

CHAPTER 4
SYSTEM STUDY

4.1 Existing system

In particular to colleges, many have a dedicated person who goes to every class every hour to collect the information of the class, he/she has to move around college without any break so that they don't miss taking attendance, this can be very tiresome and this method also includes extra cost like filing, papers, etc. All these signed and filled papers every day have to be filed and maintained which is a task in itself and consumes energy, space, and other maintenance. For a person to go to every class on campus every hour is a very hectic job.

Proposed System

As in 'existing plan,' the problem can be solved through an application, this application can record all the data required like class attendance, Lecture Hall number, date, time, etc. Through the ease of one's mobile or laptop. All the teachers carry their devices to the class, using which they can easily upload all the data, which further can be accessed and viewed by Admin and HOD.

4.1.1 Feasibility study

For the purpose of well co-ordinate maintains of tool, we have collected the necessary information about tool id, tool name, material type, price, quantity, usage of respective tool. This made them manually and arrange them according to various streams. If any corrections or modification is required that is to be also done through manually.

4.1.2 Technical feasibility

This assessment is based on an outline design of system requirements, to determine whether the company has the technical expertise to handle completion of the project. At this level, the concern is whether the proposal is both technically and legally feasible. The technical feasibility assessment is focused on gaining an understanding of the present technical resources of the organization and their applicability to the expected needs of the proposed system. It is an evaluation of the hardware and software and how it meets the need of the proposed system.

4.1.3 Economic feasibility

The purpose of the economic feasibility assessment is to determine the positive economic benefits to the organization that the proposed system will provide. It includes identification of all the benefits expected. This assessment typically involves a cost/ benefits analysis.

4.1.4 Legal feasibility

Determines whether the proposed system conflicts with legal requirements, e.g. a data processing system must compile with the local data protection regulations and if the proposed venture is acceptable.

4.1.5 Operational Feasibility

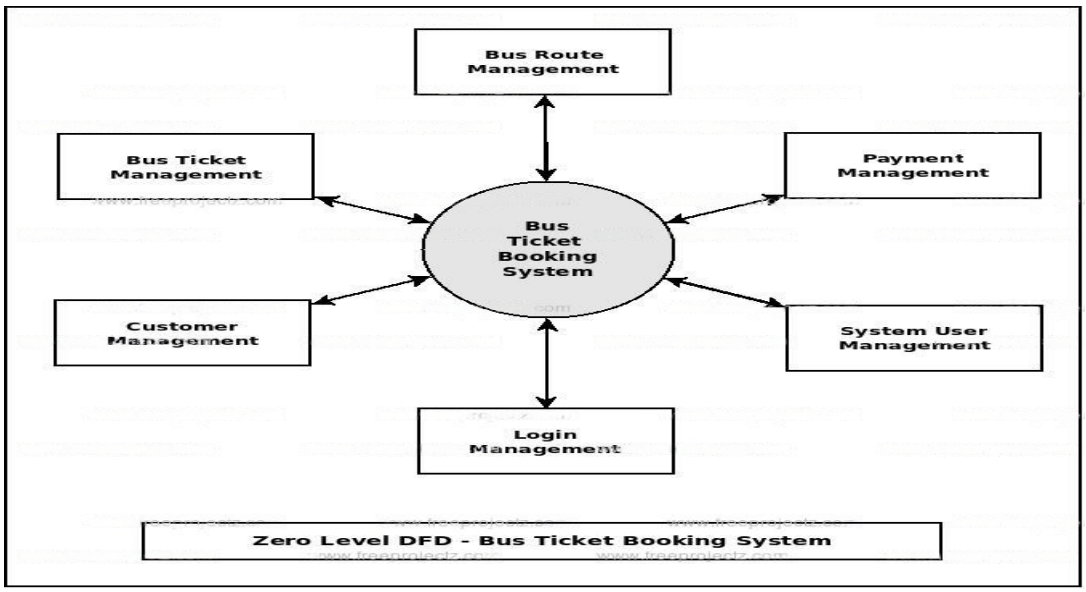
Operational feasibility is a measure of how well a proposed system solves the problems, and takes advantage of the opportunities identified during scope definition and how it satisfies the requirements identified in the requirements analysis phase of system development. To ensure success, desired operational outcomes must be imparted during design and development. These include such design-dependent parameters such as reliability, maintainability, supportability, usability, disposability, sustainability, affordability and others. These parameters are required to be considered at the early stages of design if desired operational behaviours are to be realized.

4.1.6 Schedule Feasibility

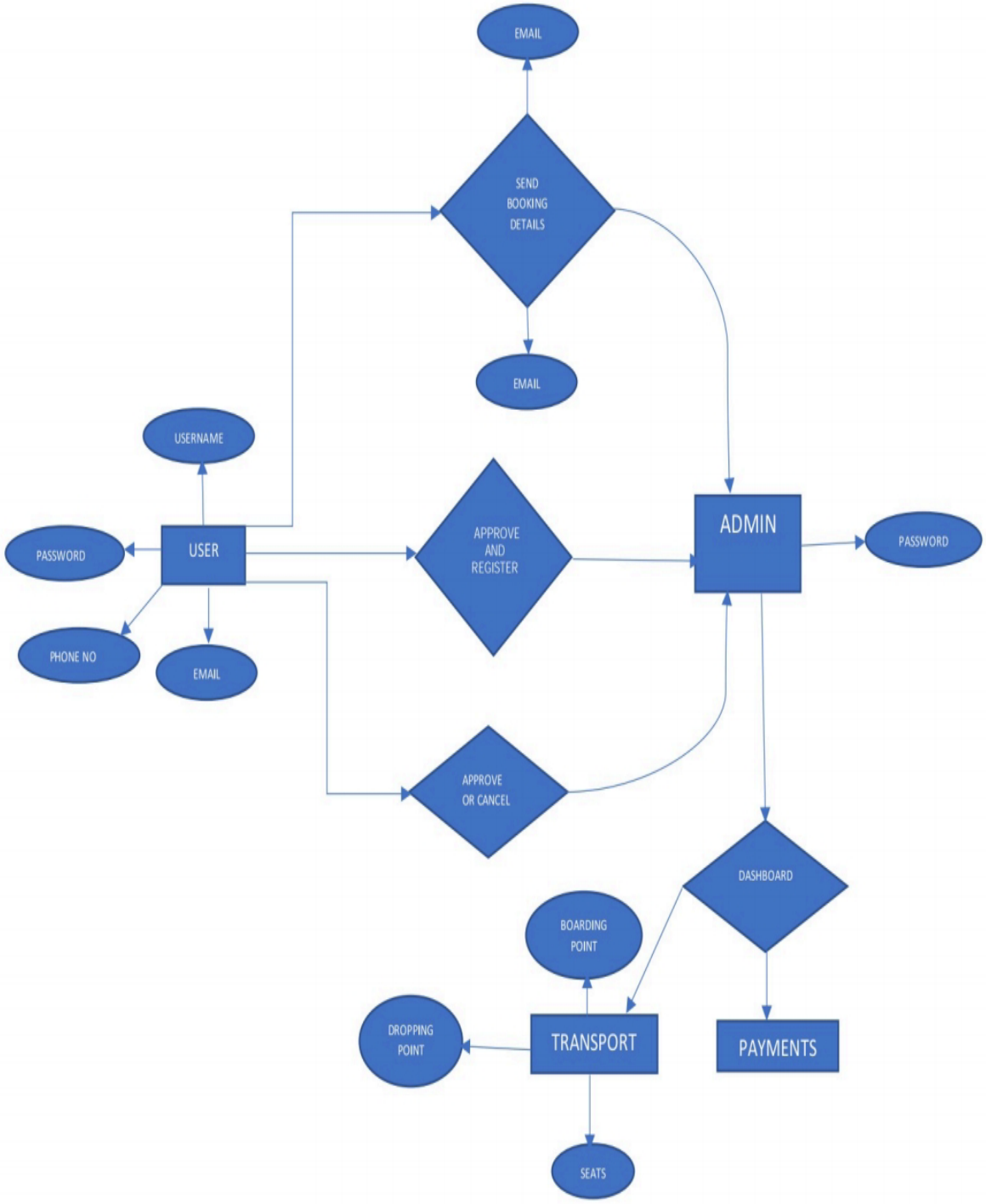
A project will fail if it takes too long to be completed before it is useful. Typically this means estimating how long the system will take to develop, and if it can be completed in a given time period using some methods like payback period. Schedule feasibility is a measure of how reasonable the project timetable is given.

4.2 SYSTEM DESIGN

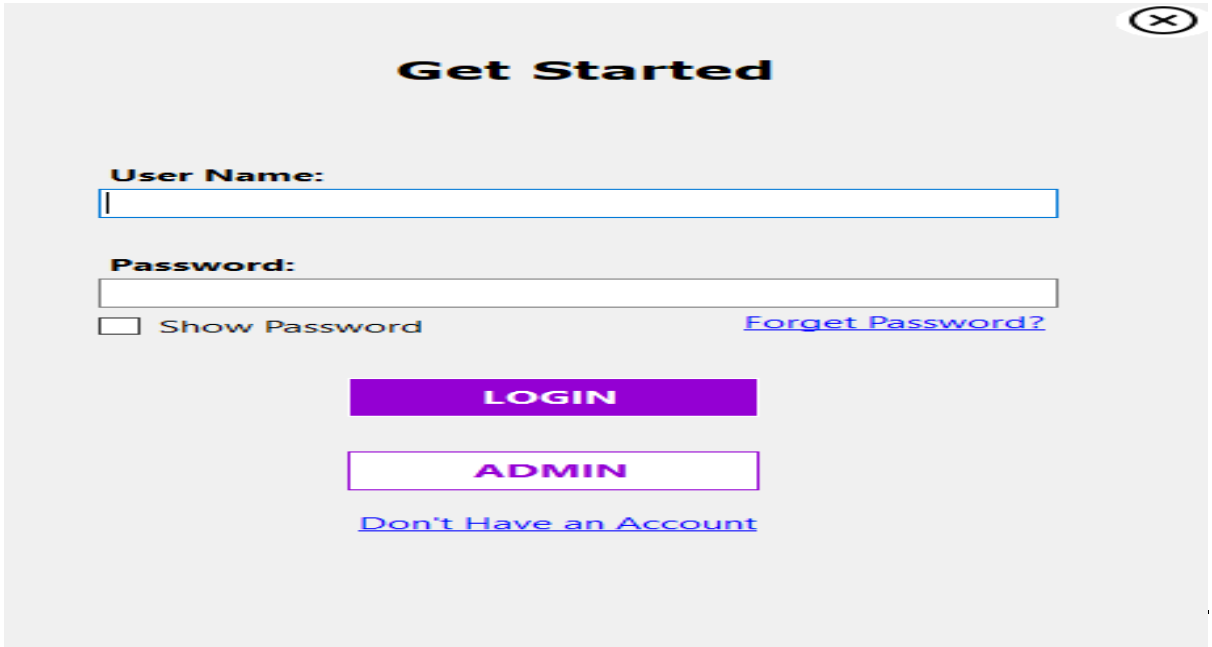
4.2.1 DATA FLOW DIAGRAM [DFD]:

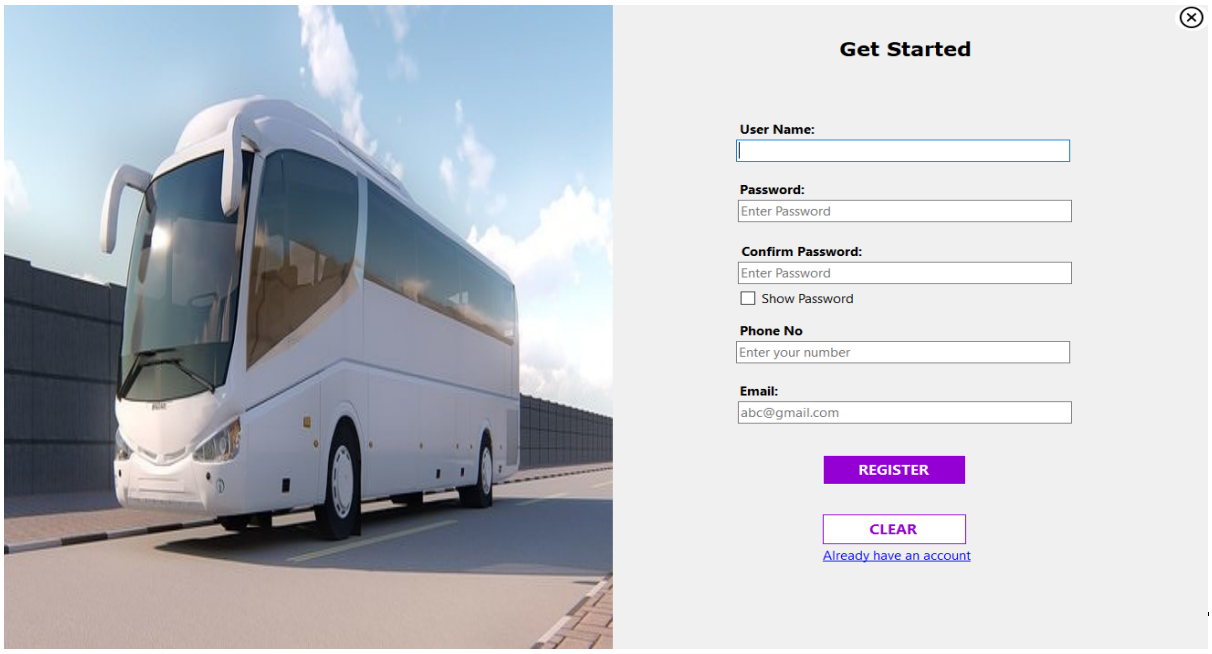


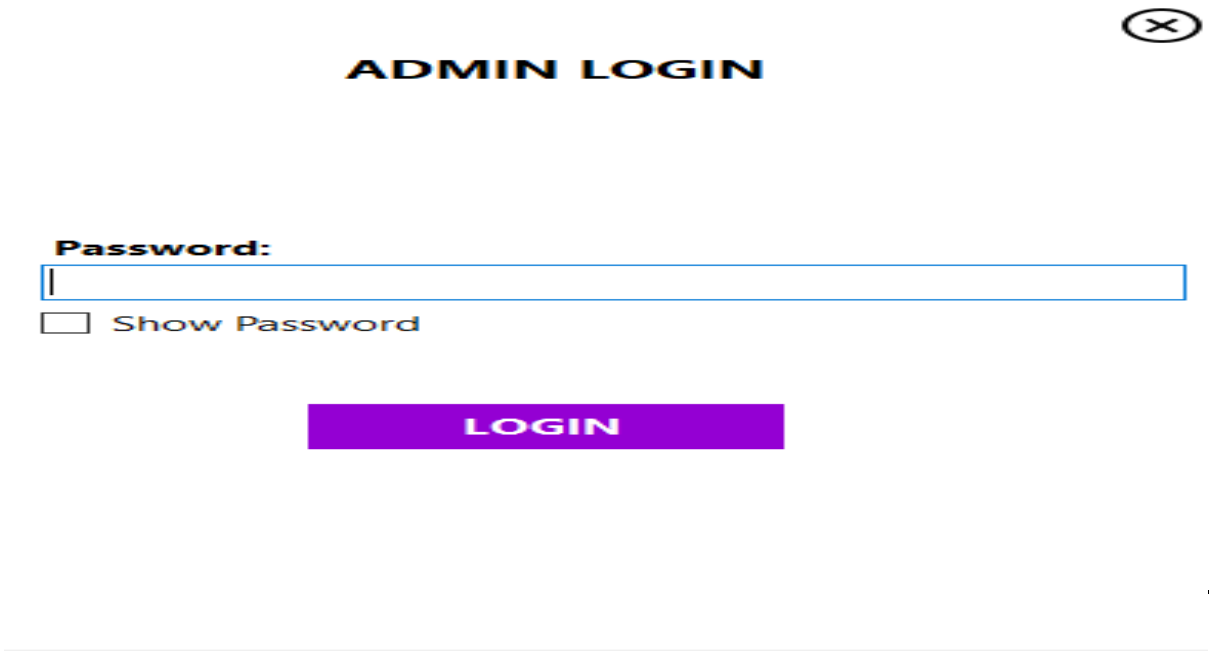
4.2.2 E-R Diagram



4.3 Forms Screenshot




Get Started
User Name:
Password:
Enter Password
Confirm Password:
Enter Password
Show Password
Phone No
Enter your number
Email:
abc@gmail.com
REGISTER
CLEAR
Already have an account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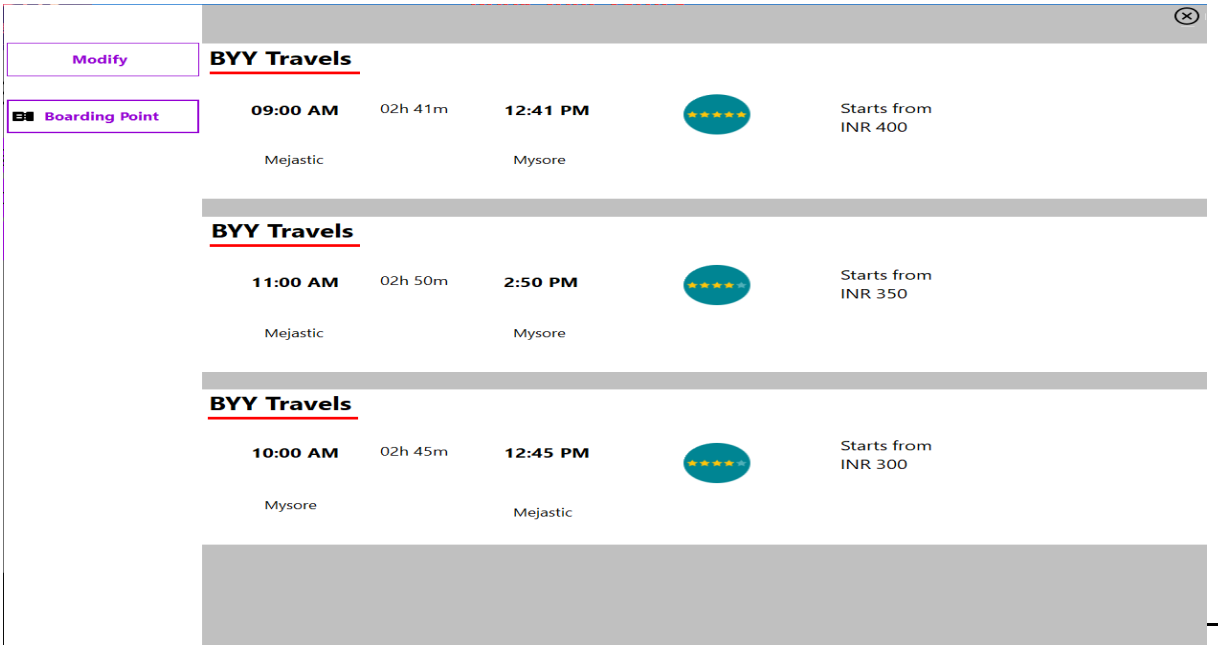
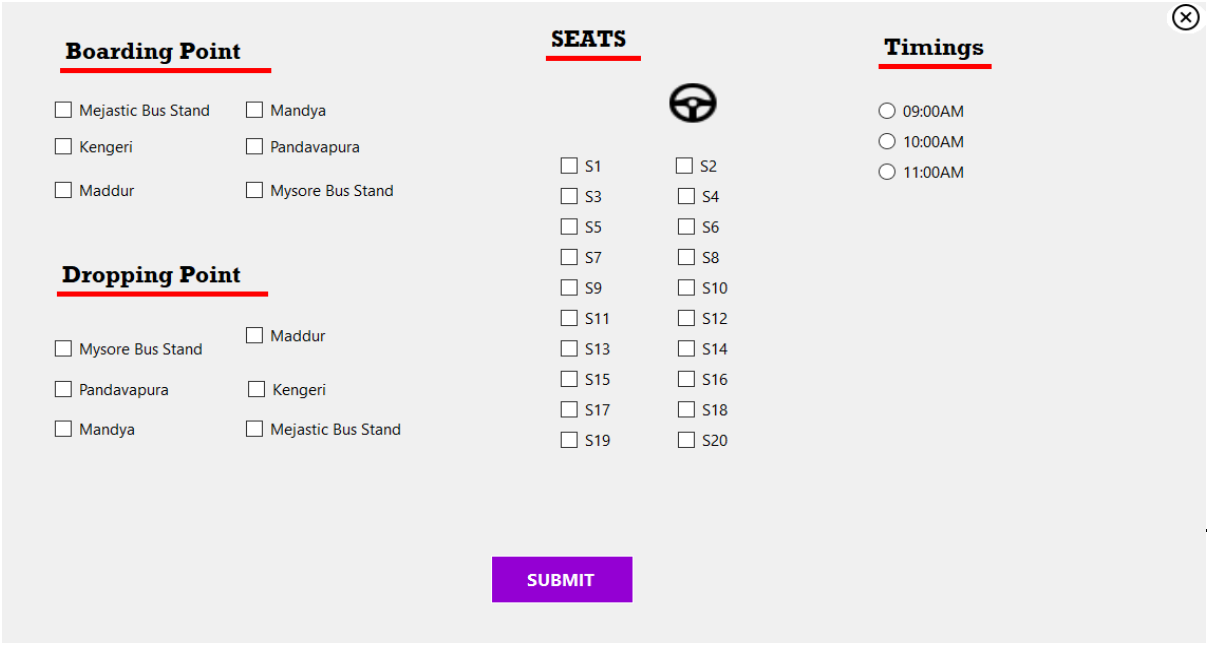
Password:
Show Password
LOGIN


Modify
Boarding Point
BYY Travels
09:00 AM
02h 41m
12:41 PM
Mejastic
Mysore
Starts from
INR 400
BYY Travels
11:00 AM
02h 50m
2:50 PM
Mejastic
Mysore
Starts from
INR 350
BYY Travels
10:00 AM
02h 45m
12:45 PM
Mysore
Mejastic
Starts from
INR 300


Boarding Point
Mejastic Bus Stand
Mandya
Kengeri
Pandavapura
Maddur
Mysore Bus Stand
Dropping Point
Mysore Bus Stand
Maddur
Pandavapura
Kengeri
Mandya
Mejastic Bus Stand
SEATS
S1
S2
S3
S4
S5
S6
S7
S8
S9
S10
S11
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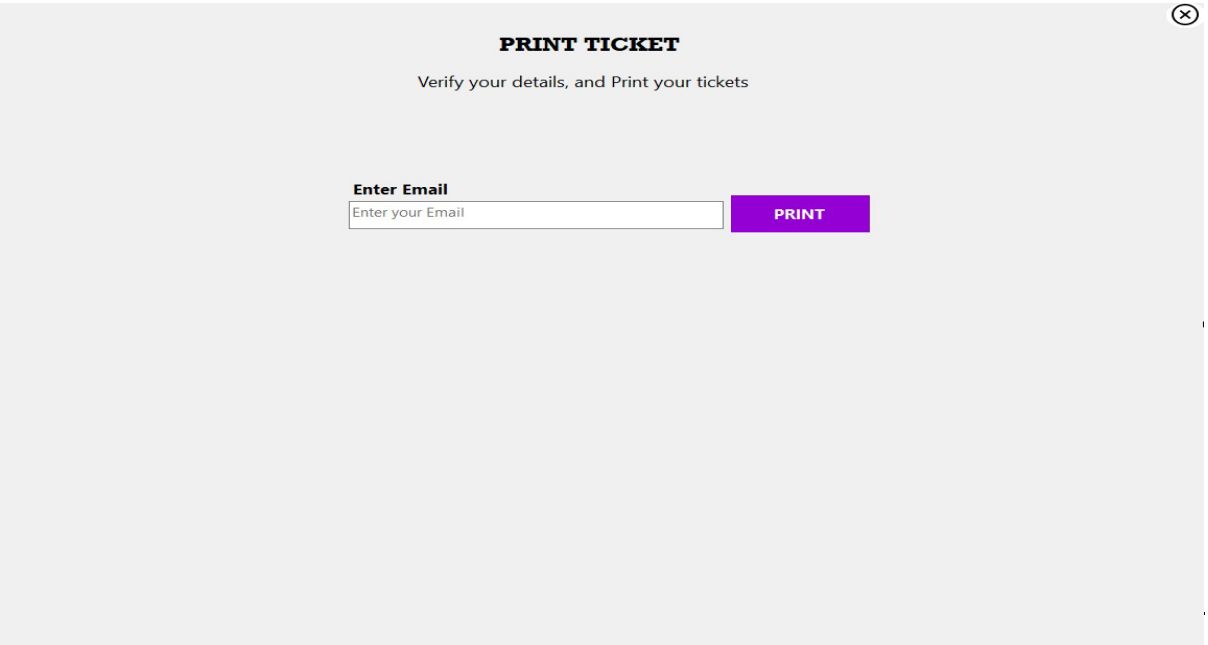
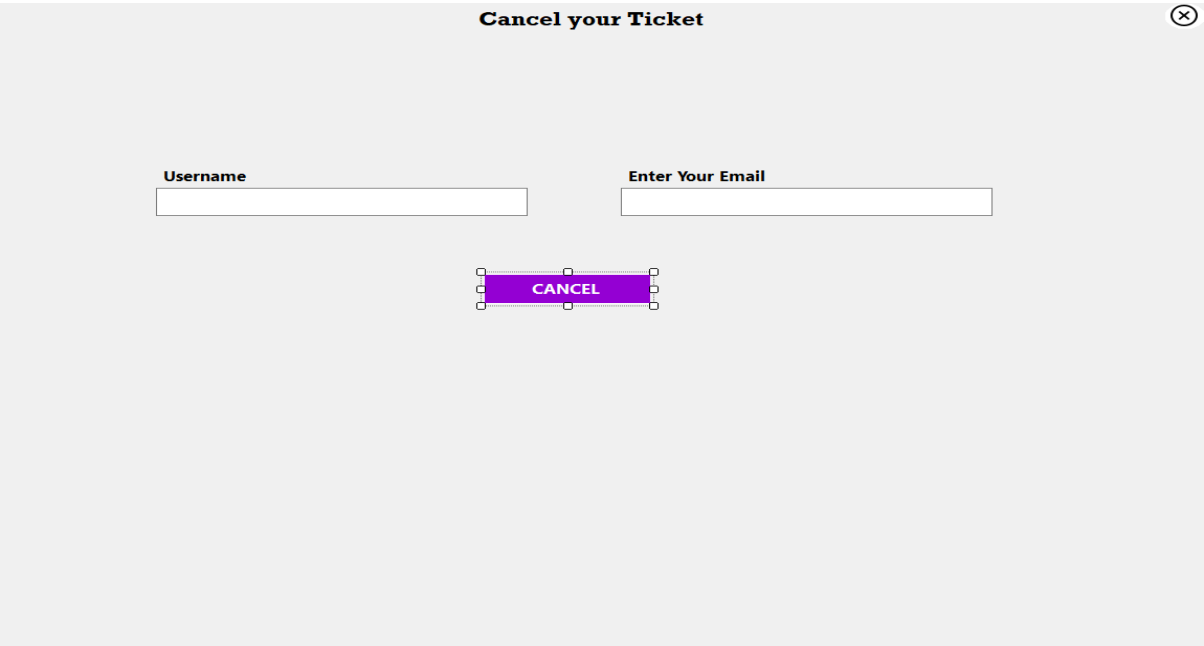
10:00AM
11:00AM
SUBMIT


PRINT TICKET
Verify your details, and Print your tickets
Enter Email
Enter your Email
PRINT


Cancel your Ticket
Username
Enter Your Email
CANCEL

⊗

About us

"Book Your Yathra" is India's largest online bus ticketing platform that has transformed bus travel in the Karnataka by bringing ease and convenience to Thousands of Karnataka's who travel using buses. Founded in 2022, book your yathra is part of Karnataka's leading online travel company MakeMyTrip Limited (NASDAQ: MMYT). By providing widest choice, superior customer service, lowest prices and unmatched benefits, book your yathra has served over 10thousands of customers. Book Your Yathra has a global presence with operations across Gokarna, Coorg, Hampi, and Mysore apart from Karnataka.

Management and Development Team

Varun Sulakhe

Jeeva

⊗

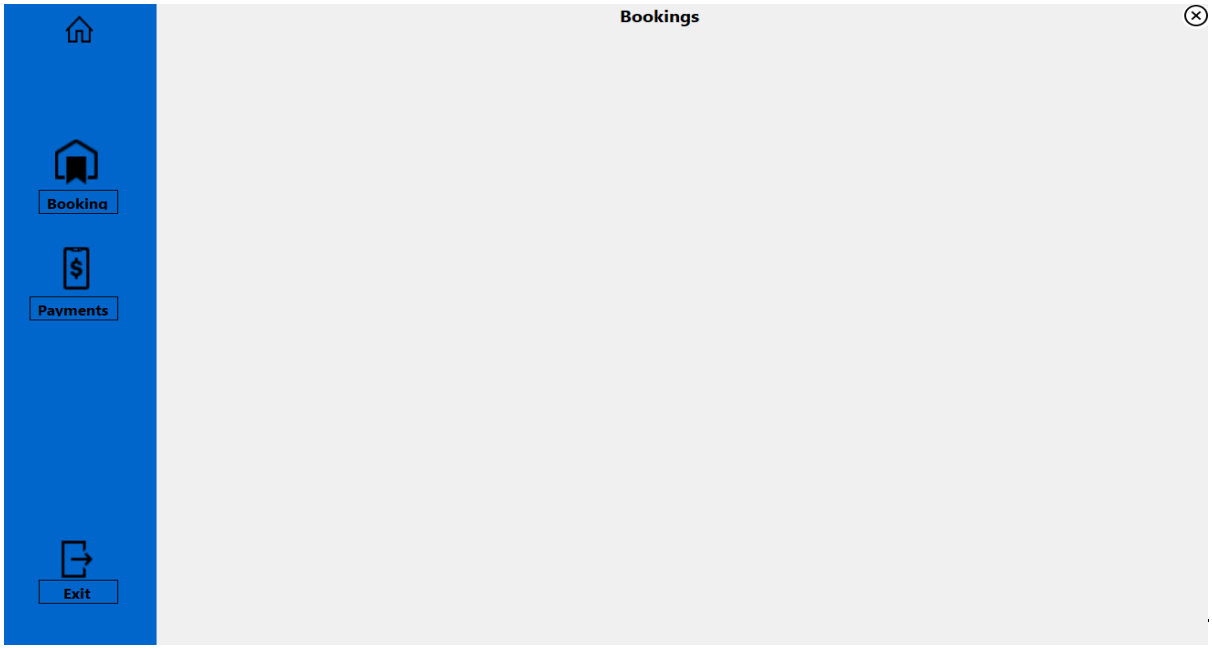
Contact Us

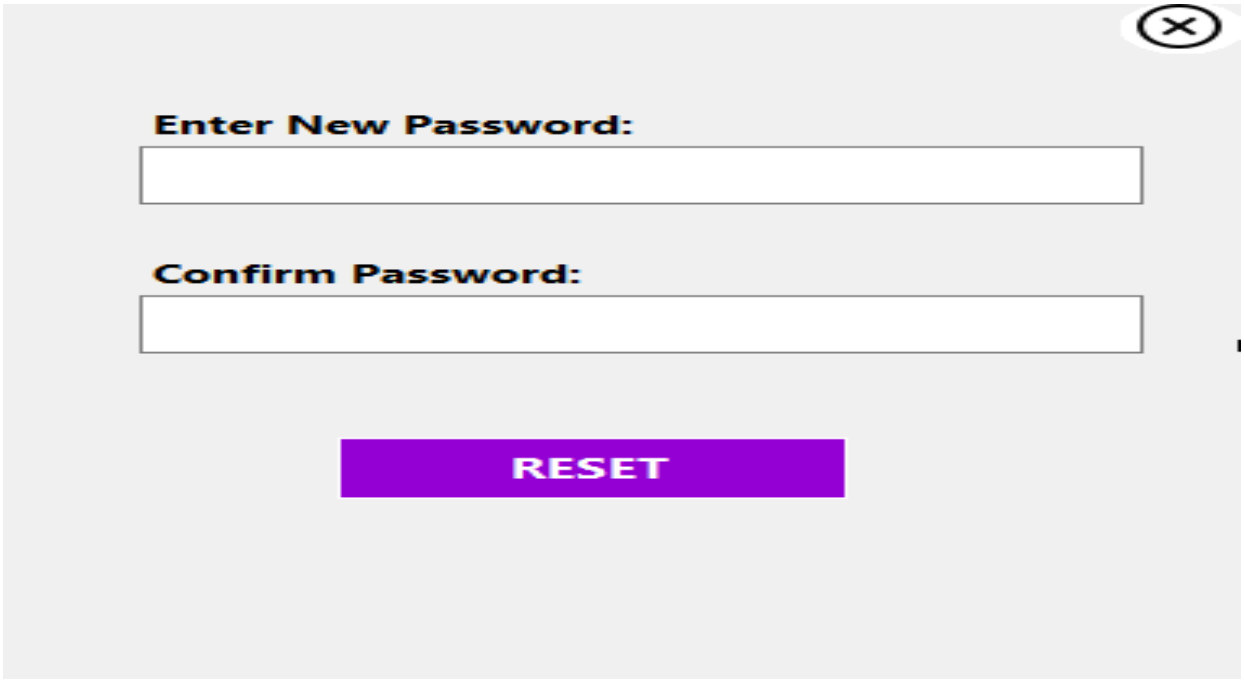
Name:

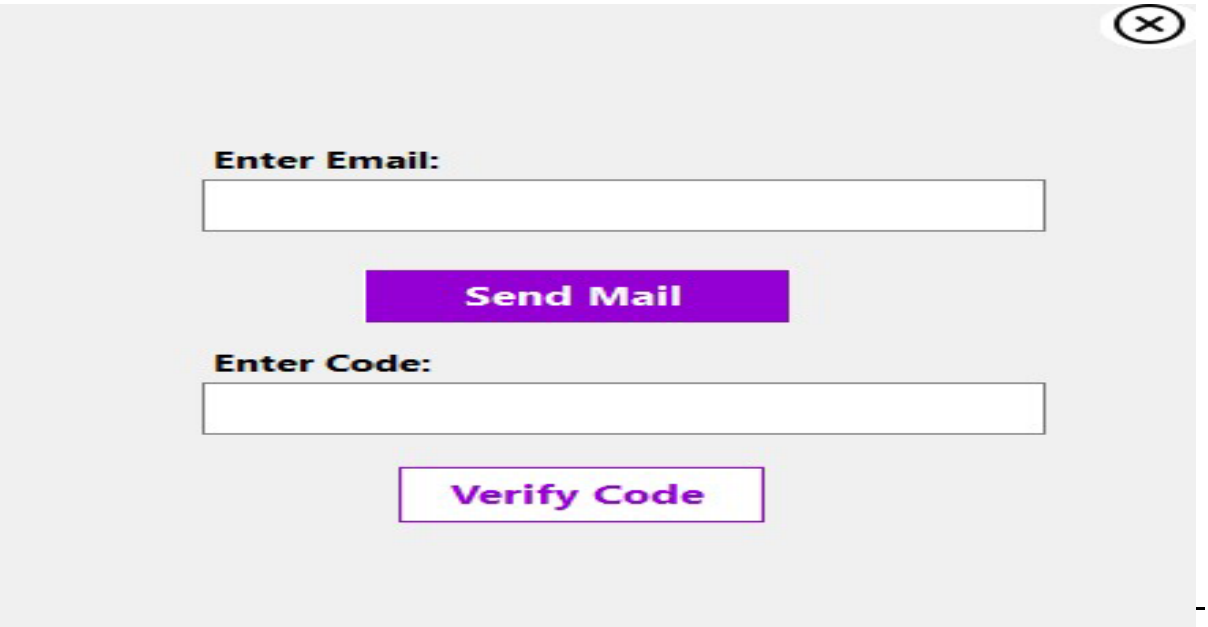
Email:

Message:

SEND MESSAGE


Bookings
Booking
Payments
Exit


Enter New Password:
Confirm Password:
RESET


Enter Email:
Send Mail
Enter Code:
Verify Code

CHAPTER 5
IMPLEMENTATION

1. Start Page

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Data.SqlClient;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Text.RegularExpressions;
using System.Threading.Tasks;
using System.Windows.Forms;


namespace BYY
{
    public partial class RegisterForm : Form
    {
        SqlConnection con = new SqlConnection(@"Data Source=VARUNSONU\
SQLEXPRESS03;Initial Catalog=BYY;Integrated Security=True");
        public RegisterForm()
        {
            InitializeComponent();
        }
        private void button1_Click(object sender, EventArgs e)
        {
            if (!Authenticate())
            {
                MessageBox.Show("Do not keep any textbook blank!");
            }
            else
            {
               try
                {
                    if(txtpassword.Text == txtconfirmpassword.Text)
                    {
                        String query = "INSERT INTO Registration(username,password,
confirmpassword,phoneno,email) VALUES(@USERNAME,@PASSSWORD,@
CONFIRMPASSWORD,@PHONENO,@EMAIL)";
                        con.Open();
                        SqlCommand cmd = new SqlCommand(query, con);
                        //adding parameters
                        cmd.Parameters.Add("@USERNAME", SqlDbType.VarChar);
                        cmd.Parameters["@USERNAME"].Value = txtusername.Text;
```

```
cmd.Parameters.Add("@PASSSWORD", SqlDbType.VarChar);
                    cmd.Parameters["@PASSSWORD"].Value = txtpassword.Text
;


                    cmd.Parameters.Add("@CONFIRMPASSWORD", SqlDbType.
VarChar);
                    cmd.Parameters["@CONFIRMPASSWORD"].Value =
txtconfirmpassword.Text;


                    cmd.Parameters.Add("@PHONENO", SqlDbType.VarChar);
                    cmd.Parameters["@PHONENO"].Value = txtphnno.Text;


                    cmd.Parameters.Add("@EMAIL", SqlDbType.VarChar);
                    cmd.Parameters["@EMAIL"].Value = txtemail.Text;


                    cmd.ExecuteNonQuery();
                    con.Close();
                    MessageBox.Show("Register Successfull");
                    Home hm = new Home();
                    hm.Show();
                    this.Hide();
                }
                else
                {
                    MessageBox.Show("Password does not match");
                }
                    }
            catch(Exception ex)
            {
                MessageBox.Show(ex.Message);
            }


        }
    }
    bool Authenticate()
    {
        if (String.IsNullOrWhiteSpace(txtusername.Text) ||
            String.IsNullOrWhiteSpace(txtpassword.Text) ||
            String.IsNullOrWhiteSpace(txtconfirmpassword.Text) ||
            String.IsNullOrWhiteSpace(txtphnno.Text) ||
            String.IsNullOrWhiteSpace(txtemail.Text)
            )
            return false;
        else return true;
}
```

```
private void circularButton1_Click(object sender, EventArgs e)
        {
            this.Close();
        }

        private void linkLabel2_LinkClicked(object sender,
LinkLabelLinkClickedEventArgs e)
        {
            Login f1 = new Login();
            f1.ShowDialog();
        }

        private void label6_Click(object sender, EventArgs e)
        {

        }

        private void checkBox1_CheckedChanged(object sender, EventArgs e)
        {
            if (showpassword.Checked == true)
            {
                txtpassword.UseSystemPasswordChar = false;
                txtconfirmpassword.UseSystemPasswordChar = false;
            }
            else
            {
                txtpassword.UseSystemPasswordChar = true;
                txtconfirmpassword.UseSystemPasswordChar = true;
            }
        }

        private void button2_Click(object sender, EventArgs e)
        {
            txtusername.Clear();
            txtpassword.Clear();
            txtconfirmpassword.Clear();
            txtphnno.Clear();
            txtemail.Clear();
        }
```

```
 private void RegisterForm_Load(object sender, EventArgs e)
       {
 }
private void panel1_Paint(object sender, PaintEventArgs e)
       {
}
 private void txtphnno_KeyPress(object sender, KeyPressEventArgs e)
       {
           if(!char.IsDigit(e.KeyChar) && !char.IsControl(e.KeyChar))
           {
               e.Handled = true;
               MessageBox.Show("Error, A phone number cannot contain letters");
           }
       }
private void txtphnno_TextChanged(object sender, EventArgs e)
       {
           }
 private void RegisterForm_Load_1(object sender, EventArgs e)
       {
}
private void circularButton1_Click_1(object sender, EventArgs e)
       {
           this.Close();
       }
private void txtphnno_TextChanged_1(object sender, EventArgs e)
       {
           if (txtphnno.TextLength == 10)
           {
               txtphnno.ForeColor = Color.Black;
           }
           else
           {
               txtphnno.ForeColor = Color.Black;
           }
       }
private void txtemail_leave(object sender, EventArgs e)
       {
           string pattern = "^([0-9a-zA-Z]([-\\.\\w]*[0-9a-zA-Z]*@[0-9a-zA-Z][-\\
w]*[0-9a-zA-Z]\\.)+[a-zA-Z]{2,9})$";
           if(Regex.IsMatch(txtemail.Text,pattern))
           {

           }
           else
           {
               MessageBox.Show("Email is incorrect please try again.....!");
           }
       }
   }
}
```

2.Login page

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Data.SqlClient;

namespace BYY
{
    public partial class Login : Form
    {
        public Login()
        {
            InitializeComponent();
        }
        SqlConnection conn = new SqlConnection(@"Data Source=
VARUNSONU\SQLEXPRESS03;Initial Catalog=BYY;Integrated Security=
True");


        private void Login_Load(object sender, EventArgs e)
        {

        }

        private void circularButton1_Click(object sender, EventArgs e)
        {
            this.Close();
        }
private void button1_Click(object sender, EventArgs e)
       {
           String username, userpassword;
           username = txtusername.Text;
           userpassword = txtpassword.Text;


           try
           {
               String querry = "SELECT * FROM Registration WHERE username =
 '" + txtusername.Text + "' AND password = '" + txtpassword.Text + "'";
```

```
SqlDataAdapter sda = new SqlDataAdapter(querry, conn);

            DataTable Dtable = new DataTable();
            sda.Fill(Dtable);

            if(Dtable.Rows.Count > 0 )
            {
                username = txtusername.Text;
                userpassword = txtpassword.Text;
                MessageBox.Show("Login Successfull");

                //page that needed to be load next
                Home frm = new Home();
                frm.Show();
                this.Hide();
            }

            else
            {
                MessageBox.Show("Invalid login details", "Error",
MessageBoxButtons.OK, MessageBoxIcon.Error);
                txtusername.Clear();
                txtpassword.Clear();

                //to focus username
                txtusername.Focus();
            }
        }
        catch
        {
            MessageBox.Show("Error");
        }
    }


    private void linkLabel1_LinkClicked(object sender,
LinkLabelLinkClickedEventArgs e)
    {
         ForgetPassword f1 = new ForgetPassword();
        this.Hide();
        f1.Show();
    }
```

```
 private void linkLabel2_LinkClicked(object sender,
LinkLabelLinkClickedEventArgs e)
        {
            RegisterForm f2 = new RegisterForm();
            f2.ShowDialog();
        }

        private void button2_Click(object sender, EventArgs e)
        {
            AdminLgn adm = new AdminLgn();

            adm.ShowDialog();
        }

        private void checkBox1_CheckedChanged(object sender, EventArgs
e)
        {
            if (showpassword.Checked == true)
            {
                txtpassword.UseSystemPasswordChar = false;
            }
            else
            {
                txtpassword.UseSystemPasswordChar = true;
            }
        }
    }
}
```

3.Forget password

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Net;
using System.Net.Mail;
using System.Data.SqlClient;
using static System.Windows.Forms.VisualStyles.VisualStyleElement.StartPanel;
using Microsoft.VisualBasic;
namespace BYY
{
public partial class ForgetPassword : Form
    {
        SqlConnection con = new SqlConnection(@"Data Source=VARUNSONU\SQLEXPRESS03;
Initial Catalog=BYY;Integrated Security=True");
        string randomCode;
        public ForgetPassword()
        {
            InitializeComponent();
        }
private void circularButton1_Click_1(object sender, EventArgs e)
        {
            this.Close();
        }
private void button3_Click(object sender, EventArgs e)
        {
            ResetPassword f1 = new ResetPassword();
            f1.ShowDialog();
        }
private void btnsendmail_Click(object sender, EventArgs e)
        {
            string checkemail,gmailid;
            gmailid= (txtEmail.Text).ToString();
            String querry = "SELECT * FROM Registration WHERE email = '" + txtEmail.Text + "'";
            SqlDataAdapter sda = new SqlDataAdapter(querry, con);
            DataTable Dtable = new DataTable();
            sda.Fill(Dtable);
if (Dtable.Rows.Count > 0)
            {
                string from, pass, messageBody;
                Random rand = new Random();
                randomCode = (rand.Next(999999)).ToString();
                String query = " UPDATE Registration SET otp = '" + randomCode + "' WHERE email
='" + txtEmail.Text + "'";
                SqlCommand cmd = new SqlCommand(query, con);
                con.Open();
                cmd.ExecuteNonQuery();
                MailMessage message = new
```

```
MailMessage();
                to = (txtEmail.Text).ToString();
                from = "bookyouryathra@gmail.com";
                pass = "yjcgxxuobrxqgeeq";
                messageBody = "Your reset code is " + randomCode;
                message.To.Add(to);
                message.From = new MailAddress(from);
                message.Body = messageBody;
                message.Subject = "password resetting code";
                SmtpClient smtp = new SmtpClient("smtp.gmail.com");
                smtp.EnableSsl = true;
                smtp.Port = 587;
                smtp.DeliveryMethod = SmtpDeliveryMethod.Network;
                smtp.Credentials = new NetworkCredential(from, pass);
                try
                {
                    smtp.Send(message);
                    MessageBox.Show("OTP sent successfully");
                }
                catch (Exception ex)
                {
                    MessageBox.Show(ex.Message);
                     }
 else
            {
                MessageBox.Show("User notfound");
            }
            con.Close();
             }
private void btnverifycode_Click(object sender, EventArgs e)
        {
            con.Open();
            String query2 = "SELECT otp FROM Registration WHERE email = '" + txtEmail.Text + "'";
            //SqlDataAdapter sda = new SqlDataAdapter(query2, con);
            SqlCommand cmd = new SqlCommand(query2, con);
            SqlDataReader reader1;
            reader1 = cmd.ExecuteReader();
            if (reader1.Read())
            string verifyotp = reader1.GetValue(0).ToString();
              string otpinput = textBox2.Text;
                if (verifyotp == otpinput)
                {
                    to = txtEmail.Text;
                    ResetPassword rp = new ResetPassword();
                    this.Hide();
                    rp.Show();
                }
                else
                {
                    MessageBox.Show("Sorry Wrong OTP");
                }
              else
            {
                MessageBox.Show("NO DATA FOUND");
            }
            con.Close();
 }
private void ForgetPassword_Load(object sender, EventArgs e)
       {
      }
    }
}
```

4.Reset password

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Data;
using System.Data.SqlClient;

namespace BYY
{
    public partial class ResetPassword : Form
    {
        string email = ForgetPassword.to;
        public ResetPassword()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            string password = txtconfirmpassword.Text;
           if (txtnewpassword.Text == password)
            {
                SqlConnection con = new SqlConnection(@"Data Source=
VARUNSONU\\SQLEXPRESS03;Initial Catalog=BYY;Integrated Security=True");
                SqlCommand cmd = new SqlCommand("UPDATE [dbo].
[Forgetpassword]  SET [password] = '" + password + "'WHERE EMAIL='" +
email + "' ", con);
                con.Open();
                cmd.ExecuteNonQuery();
                con.Close();
                MessageBox.Show(" Password reset successfully");


            }
           else
           {
                MessageBox.Show("the new passsword do not match so try
again");
           }
        }
```

```
private void circularButton1_Click(object sender, EventArgs e)
        {
            this.Close();
        }

        private void ResetPassword_Load(object sender, EventArgs e)
        {

        }

        private void txtnewpassword_TextChanged(object sender, EventArgs
e)
        {

        }
    }
}
```

5.Admin login

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Data.SqlClient;

namespace BYY
{
    public partial class AdminLgn : Form
    {
        public AdminLgn()
        {
            InitializeComponent();
        }
        SqlConnection conn = new SqlConnection(@"Data Source=
VARUNSONU\SQLEXPRESS03;Initial Catalog=BYY;Integrated
Security=True");
        private void circularButton1_Click(object sender, EventArgs
 e)
        {
            this.Close();
        }

        private void AdminLgn_Load(object sender, EventArgs e)
        {

        }

private void button1_Click(object sender, EventArgs e)
  {
          String  userpassword;
          userpassword = txtpassword.Text;
```

```
            if(txtpassword.Text.ToLower() == "admin123")
            {
                MessageBox.Show("Login Successfull");
                 //page that needed to be load next
                 DashBoard db = new DashBoard();
                 db.Show();
                 this.Hide();

             }
             else
             {
                 MessageBox.Show("Invalid login details", "Error",
 MessageBoxButtons.OK, MessageBoxIcon.Error);
                 txtpassword.Clear();


                //to focus username
                txtpassword.Focus()
 ;           }

        }

         private void showpassword_CheckedChanged(object sender, EventArgs
  e)
         {

          if (showpassword.Checked == true)
          {
              txtpassword.UseSystemPasswordChar = false;
          }
          else
          {
              txtpassword.UseSystemPasswordChar = true;
          }
      }
   }
}
```

6.Cancel page

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Data.SqlClient;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Channels;
using System.Threading.Tasks;
using System.Windows.Forms;


namespace BYY
{
    public partial class Cancel : Form
    {
        SqlConnection con = new SqlConnection(@"Data Source=
VARUNSONU\SQLEXPRESS03;Initial Catalog=BYY;Integrated Security=
True");
        public Cancel()
        {
            InitializeComponent();
        }
private void circularButton1_Click(object sender, EventArgs e)
        {
            this.Close();
            Home.hm.ShowDialog();
  }

private void button1_Click(object sender, EventArgs e)
      {
    try
              {
                  String querry = "SELECT * FROM Registration WHERE
username = '" + txtusername.Text + "' AND email = '" + txtemail.Text + "'";
                  SqlDataAdapter sda = new SqlDataAdapter(querry, con);
                  con.Open();
                  DataTable Dtable = new DataTable();
                  sda.Fill(Dtable);
                  con.Close();
                  if (Dtable.Rows.Count > 0)
                  {
                      String querry1 = "DELETE FROM Registration WHERE
username = '" + txtusername.Text + "' AND email = '" + txtemail.Text + "'";
```

```
SqlCommand cmd = new SqlCommand(querry1, con);
                    con.Open();
                    cmd.ExecuteNonQuery();
                    MessageBox.Show("Booking Cancelled");
                    con.Close();
                }
                else
                {
                    MessageBox.Show("Invalid detalis");
                    txtusername.Clear();
                    txtemail.Clear();

                    //to focus username
                    txtusername.Focus();
                }
            }
            catch (Exception ex)
            {
                MessageBox.Show(ex.Message);
            }
        }

    }
}
```

7.Print ticket page

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Data.SqlClient;
using System.Drawing;
using System.Drawing.Printing;
using System.Linq;
using System.Reflection.Metadata;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Net.Mail;
using System.Net;
using System.IO;

namespace BYY
{
    public partial class PrintTicket : Form
    {
        string Message;
        public static string to;
        public PrintTicket()
        {
            InitializeComponent();
        }

        private void circularButton1_Click(object sender, EventArgs e)
        {
            this.Close();
        }

        private void PrintTicket_Load(object sender, EventArgs e)
        {

        }
```

```
private void button1_Click(object sender, EventArgs e)
        {
            string from, pass, messageBody;
            Message rand = new Message();

            MailMessage message = new MailMessage();
            to = (txttktemail.Text).ToString();
            from = "bookyouryathra@gmail.com";
            pass = "yjcgxxuobrxqgeeq";
            messageBody = "Your Ticket Booked Successfully" + Message
;
            message.To.Add(to);
            message.From = new MailAddress(from);
            message.Body = messageBody;
            message.Subject = "Ticket Details";
            SmtpClient smtp = new SmtpClient("smtp.gmail.com");
            smtp.EnableSsl = true;
            smtp.Port = 587;
            smtp.DeliveryMethod = SmtpDeliveryMethod.Network;
            smtp.Credentials = new NetworkCredential(from, pass);
            try
            {
                smtp.Send(message);
                MessageBox.Show("Message sent successfully");
            }
            catch (Exception ex)
            {
                MessageBox.Show(ex.Message);
            }
        }
    }
}
```

8.Home page

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;


namespace BYY
{
    public partial class Home : Form
    {
        public static Home hm = new Home();
        bool sidebarExpand;
        public Home()
        {
            hm = this;
            InitializeComponent();
        }


        private void pictureBox1_Click(object sender, EventArgs e)
        {
 }
private void button1_Click(object sender, EventArgs e)
        {
            RegisterForm f1 = new RegisterForm();
            f1.ShowDialog();

        }


        private void linkLabel1_LinkClicked(object sender,
LinkLabelLinkClickedEventArgs e)
        {
            About_us f2 = new About_us();
            f2.ShowDialog();
        }


        private void linkLabel2_LinkClicked(object sender,
LinkLabelLinkClickedEventArgs e)
        {
            Contact_us f3 = new Contact_us();
            f3.ShowDialog();
        }
```

```
private void button2_Click(object sender, EventArgs e)
        {
            Buses f1 = new Buses();
            f1.ShowDialog();
        }

        private void dateTimePicker1_ValueChanged(object sender, EventArgs e)
        {

        }

        private void comboBox3_SelectedIndexChanged(object sender,
EventArgs e)
        {

        }

        private void comboBox2_SelectedIndexChanged(object sender,
EventArgs e)
        {

        }

        private void button3_Click(object sender, EventArgs e)
        {
            Login ln = new Login();
            ln.ShowDialog();
        }
    private void sidebarTimer_Tick(object sender, EventArgs e)
        {
            //SET the Minimum and Maximum size of sidebar Panel
            if (sidebarExpand)
            {
                //if sidebar is expand, minimize
                sidebar.Width -= 5;
                if (sidebar.Width == sidebar.MinimumSize.Width)
                {
                    sidebarExpand = false;
                    sidebarTimer.Stop();
                }

            }
```

```
else
            {
                sidebar.Width += 5;
                if (sidebar.Width == sidebar.MaximumSize.Width)
                {
                    sidebarExpand = true;
                    sidebarTimer.Stop();
                }
            }
        }
  private void menuButton_Click(object sender, EventArgs e)
        {
            sidebarTimer.Start();
            btncancel.Show();
            btnshowmyticket.Show();
            btnpayments.Show();
        }
  private void button4_Click(object sender, EventArgs e)
        {
            Cancel cn = new Cancel();
            cn.Show();
            }
  private void button5_Click(object sender, EventArgs e)
        {
            ChangeTD ctd = new ChangeTD();
            ctd.Show();
           }
  private void button6_Click(object sender, EventArgs e)
        {
            PrintTicket pt = new PrintTicket();
            pt.Show();
             }
  private void panel3_Paint(object sender, PaintEventArgs e)
    {

        }
private void button4_Click_1(object sender, EventArgs e)
    {
            Payments py = new Payments();
            py.Show();
      }
    }
}
```

9.Dashboard page

```
using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Drawing;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Data.SqlClient;
using System.Drawing.Printing;

namespace BYY
{
    public partial class DashBoard : Form
    {

        public DashBoard()
        {
            InitializeComponent();
        }

        private void button3_Click(object sender, EventArgs e)
        {
            Home f1 = new Home();
            f1.ShowDialog();
        }

        private void circularButton1_Click(object sender, EventArgs e)
        {
            this.Close();
        }

        private void panel2_Paint(object sender, PaintEventArgs e)
        {

        }
```

```
  private void button2_Click_1(object sender, EventArgs e)
        {
            Payments py = new Payments();
            py.ShowDialog();
         }
private void button5_Click(object sender, EventArgs e)
      {
          String ConnectionString = @"Data Source=VARUNSONU\
SQLEXPRESS03;Initial Catalog=BYY;Integrated Security=True";
          SqlConnection con = new SqlConnection(ConnectionString);

          con.Open();
          String Query = " SELECT * FROM    Adminpage";


          SqlCommand cmd = new SqlCommand(Query, con);
          var reader = cmd.ExecuteReader();
          DataTable table = new DataTable();
          table.Load(reader);


          dataGridView1.DataSource = table;
          con.Close();
      }


      private void btnprint_Click(object sender, EventArgs e)
      {
          Panel panel = new Panel();
          this.Controls.Add(panel);


          Graphics graphics = panel.CreateGraphics();
          Size size = this.ClientSize;
          bitmap = new Bitmap(size.Width, size.Height, graphics);
          graphics = Graphics.FromImage(bitmap);


          Point point = PointToScreen(panel.Location);
          graphics.CopyFromScreen(point.X, point.Y, 0, 0, size);


          printPreviewDialog1.Document = printDocument1;
          printPreviewDialog1.ShowDialog();
      }


      private void printPreviewDialog1_Load(object sender, EventArgs e)
      {


      }
```

```
Bitmap bitmap;
        private void printDocument1_PrintPage(object sender,
PrintPageEventArgs e)
        {
            e.Graphics.DrawImage(bitmap, 0, 0);
        }

        private void dataGridView1_CellContentClick(object sender,
DataGridViewCellEventArgs e)

        }
    }
}
```

CHAPTER 6
TESTING

Testing should be done through the implementation process. Even before and application is installed; it makes sense to verify that the basic platform is capable of achieving its design capabilities. System testing is a critical process. Testing is a process of executing a program with the explicit intention of finding errors that is making the program fail. This helps in finding the bottle neck in the system. Executing a program in a stimulated environment performs testing. The feedback from testing phase generally produces changes in the software to deal with errors and failures that are uncovered.

6.1 BLACK BOX TESTING:

In black box testing or functional testing test cases are decided. Test cases are decided on the basis of requirements or specifications of the program or module. Black box testing is done in the project to remove errors:

- Incorrect or missing function
- Interface errors.
- Errors in data structure or external database access.
- Behavioural or performance

6.2 WHITE BOX TESTING:

The White box testing or structural testing performs close operation of procedural details. They test the software logical path by having test cases exercising specific sets of condition and loops. White box testing is done in the project to remove errors:

- All modules path have been exercised at least once.
- Executed all loops at their boundaries and within their operational bounds.

6.3 LEVELS OF TESTING

- **Unit Testing**

  This is ideally our first level of testing software. How does it work? Here, specific lines of code, distinct functionalities, and desired procedures are isolated and tested. These lines of code, functionalities, and procedures are termed software units because they are combined to make up the software. They can also be referred to as components of the software.

- **Integration Testing**

  This testing level involves combining all the components that make up the software and testing everything as a whole instead of individually as done during unit testing. Also, from this level, tests can be split into functional and non-functional types.

- **System Testing**

  System testing has to do with verifying the required operations of the software and its compatibility with operating systems. In other words, we test both the technicalities and the business logic of the software; we run functional tests to check what the various functions of a system do, and non-functional tests to check how those functions work.

- **Acceptance Testing**

  This level of software testing is similar to the system testing, but here, the test is carried out by some selected end-users. This is the only software testing stage that is carried out by users. This stage determines if the software is finally ready to be launched to the general public.

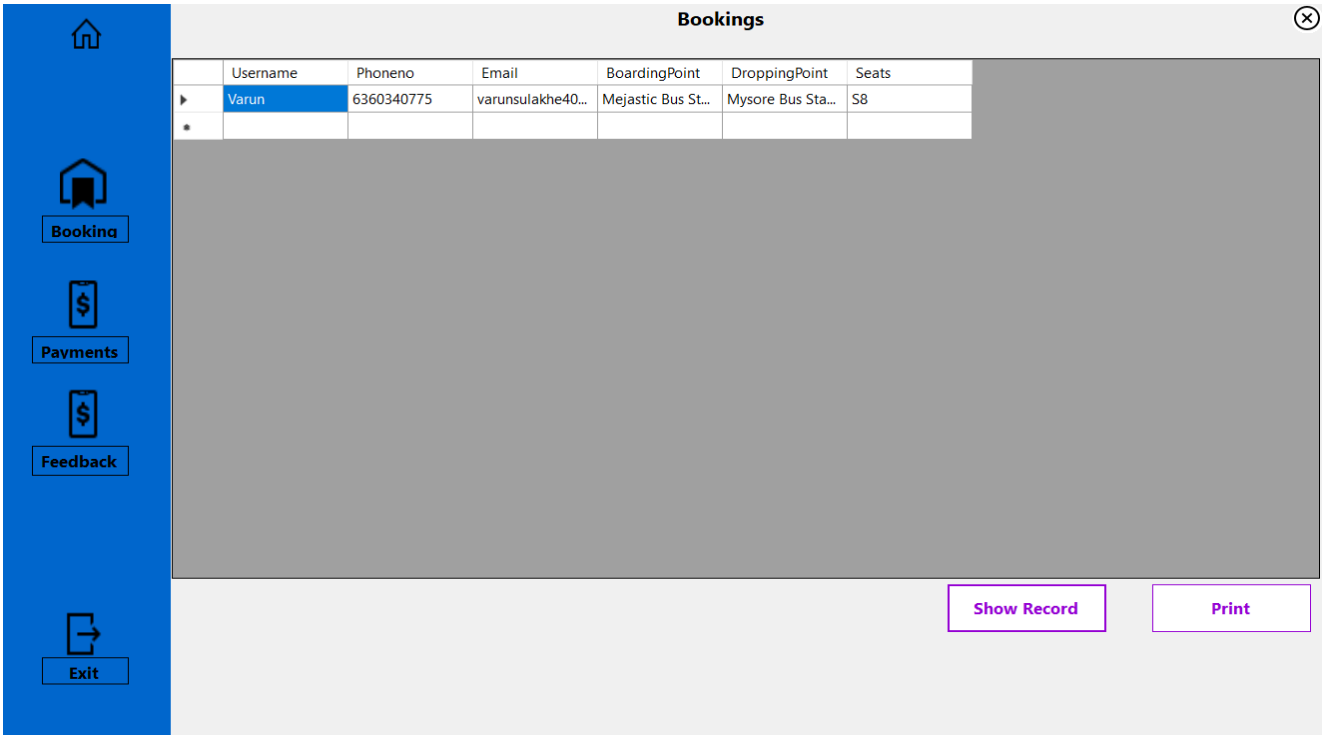
6.4 TEST CASES OF PROJECT

Sl No.	ACTION	INPUT	Expected Output	Actual Output	Test Command
1	Home page: login	Click Login	Redirects to Login page	Redirected to login page	Pass
2	Admin page: Enter Valid Details for admin	Password: admin123	Logs into the dashboard	Logged in	pass
3	Enter Invalid Log in details for Admin	Password: admin12345	Check user name or password	Check user name or password	pass
4	Enter invalid User Type for Admin	Usertype : admin	User Does Not exist	Invalid details	Pass
5	Forgot Password: Forget password	Enter email and click send	Sends code to email	Sends code to email	Pass
6	Register page: Register	Enter Required Details	Register Successful	Register Successful	Pass
7	Dashboard page: Reports	Select dashboard and click show	Displays Reports	Displays Reports	Pass

8	Cancel page: Cancel ticket	Username and password	Removes user	Cancel successful	Pass
9	Contact us	Write Message click Send	Sends the message	Message sent successful	Pass

CHAPTER 7

REPORTS



CHAPTER 8
CONCLUSION

Over the years, Book your yathra had reached the milestone of 50 Thousand bus tickets. The success of book your yathra is for the reason that it had been all this way a customer centric model which focused on sales rather than automation of bus operators. Book your yathra had so far a successful journey to leap ahead from a revenue of 5lakhs in the year 2022. Although it monitored around 20% growth in ticket sales month onmonth, to achieve higher growth rate book your yathra has to either discover newer sales channels or utilize the available channels to a greater capability. The statistics with the company showed that around 25% of the book your yathra passengers are first time bus travelers. Book your yathra has to meet this challenge by increasing ticketing sales through the mobile devices.

CHAPTER 9
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CHAPTER 10
FUTURE ENHANCEMENT

1. Further improve the application for using in multiple platforms and devices

2. Implement of online payments

3.Administrator can check the user activates [such as login and logout time].