Payroll Management System

Submitted in partial fulfillment of the requirements

of the degree of

BACHELOR OF ENGINEERING
in
INFORMATION TECHNOLOGY
(A.Y. 2021-2022)

by

Inaaya Khan (44)
Aman Singh (65)
Anmol Goyal (66)

Under the Guidance of

Mr. Rahul Neve
Assistant Professor, I.T Department, TCET

Estd. in 2001

Choice Based Credit Grading System with Holistic Student Development (CBCGS-H 2019)

Jagdu Singh Charitable Trust's (Regd.)
THAKUR COLLEGE OF ENGINEERING & TECHNOLOGY
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*3rd cycle NBA Accredited UG Programmes : • Computer Engineering • Electronics & Telecommunication Engineering • Information Technology (3 years w.e.f. 01-07-2019)
1st cycle of NAAC Accreditation : • "A" Grade for 5 years (w.e.f. 30-10-2017)

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This is to certify that Ms. Inaaya Khan , Mr. Aman Singh, Mr. Anmol Goyal arebonafide students of Information Technology Department, **Thakur College of Engineering and Technology (An Autonomous College affiliated to University of Mumbai),** They have satisfactorily completed the requirements of **PS V PROJECT** as prescribed by the University of Mumbai, while working on **.**

Signature :.....
Name : Mr. Shridhar Kamble
Assistant Professor

Signature :.....
Name : Dr. Bijith Marakarkandy
HOD-IT

Signature: .....
Name : Dr. B. K. Mishra
Principal,
Thakur College of Engineering and Technology.

Internal Examiner:

Signature:.....

Name :

External Examiner:

Signature :.....

Name :

Thakur College of Engineering and Technology, Kandivali (East) Mumbai.

Date:

Place:

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I/we declare that this written submission represents my/our ideas in my/our own words and where others ideas or words have been included, I/we have adequately cited and referenced the original sources. I/we also declare that I/we have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my/our submission. I/we understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.

1.....

Inaaya Khan (IT A-44)

2.....

Aman Singh (IT A-65)

3.....

Anmol Goyal (IT A- 66)

Date:

ACKNOWLEDGEMENT

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We are thankful to and fortunate enough to get constant encouragement, support and guide from all teaching staff of IT Department who helped us in successfully completing our project work. Also, we would like to extend our sincere thanks to all staff in laboratory for their timely support.

Inaaya Khan- 44
Aman Singh- 65
Anmol Goyal- 66

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ABSTRACT

Payroll Management System is designed to make the existing manual system automatic with the help of computerized equipment and full-fledged computer software, fulfilling their requirements, so that their valuable workforce data and information can be stored efficiently for a longer period with easy access and manipulation of the same. The required software is easily available and simple to use. It can maintain and view computerized records without storing any redundant entries or overlapping repetitive data. The project describes how to manage employee data for good performance and provide better record tracking services for the admin.

INTRODUCTION:

The proposed project and Payroll Management System has been developed to overcome the problems faced in the practice of maintaining a manual system. This software is built to eliminate and, in some cases, reduce the hardships faced by the existing system. Moreover, this system is designed for a particular need of the company to carry out its operations in a smooth and effective manner. This application is reduced as much as possible to avoid errors while entering data. It also provides error message while entering invalid data. It is user-friendly as no formal knowledge is required to use the system. Human resource challenges are faced by every organization which has to be overcome by the organization. Every organization has different employee and payroll management needs. Therefore, we have designed this exclusive Payroll Management System - PayMint, that is well adapted to the cater to the various departments found in an organization.

TECHNOLOGIES USED:

- Visual Studio ASP.Net 2019
- C# Language
- SQL-Server Database

DESCRIPTION

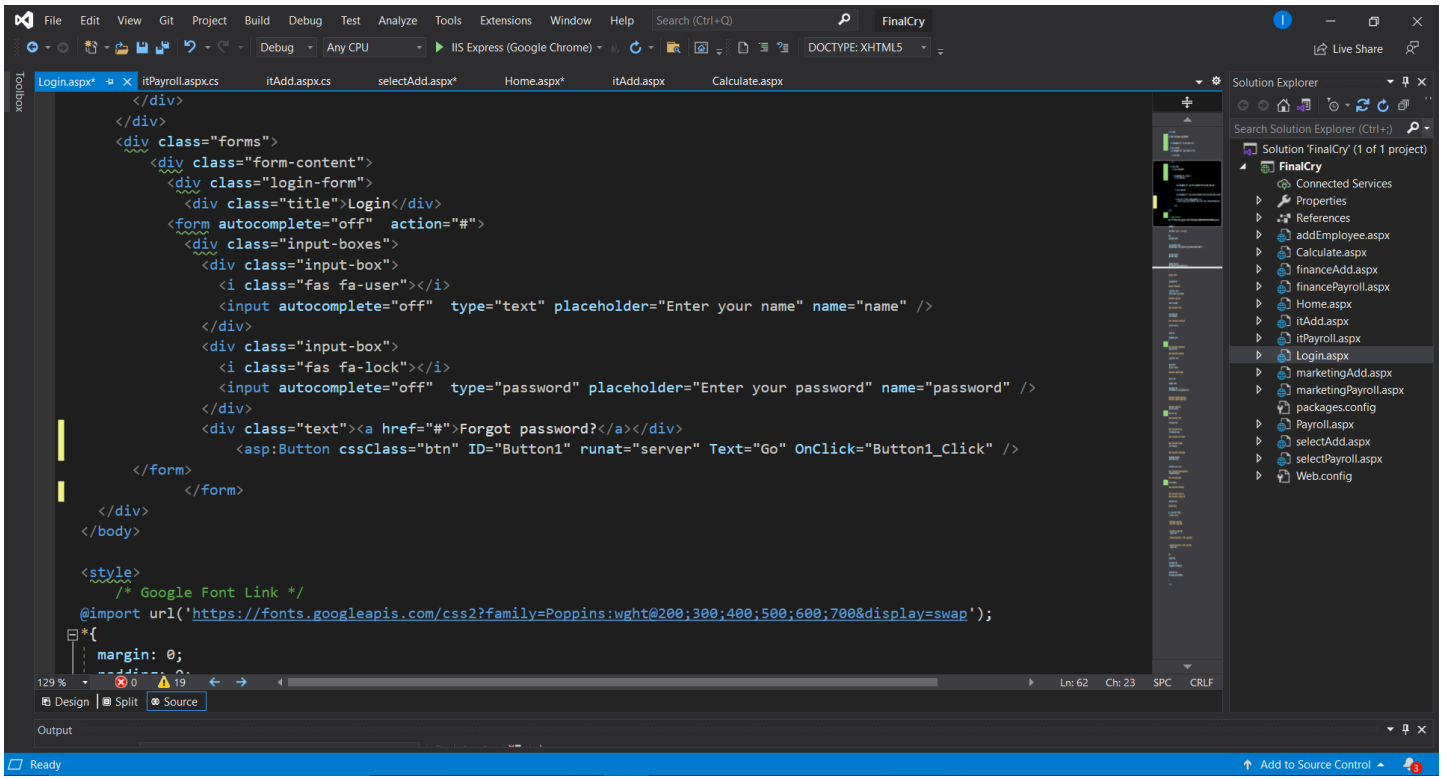
Existing System:

- The current system is totally manual.
- Maintain all data records in on paper.
- Due to manually process, it requires more time for completion of any work.
- Lots of time consumed to the requires is difficult and time consuming.
- Manual system takes more time to complete any task.
- This system require more human resource to run the system.
- Require infrastructure to operate the system
- View past reports task is very tedious.

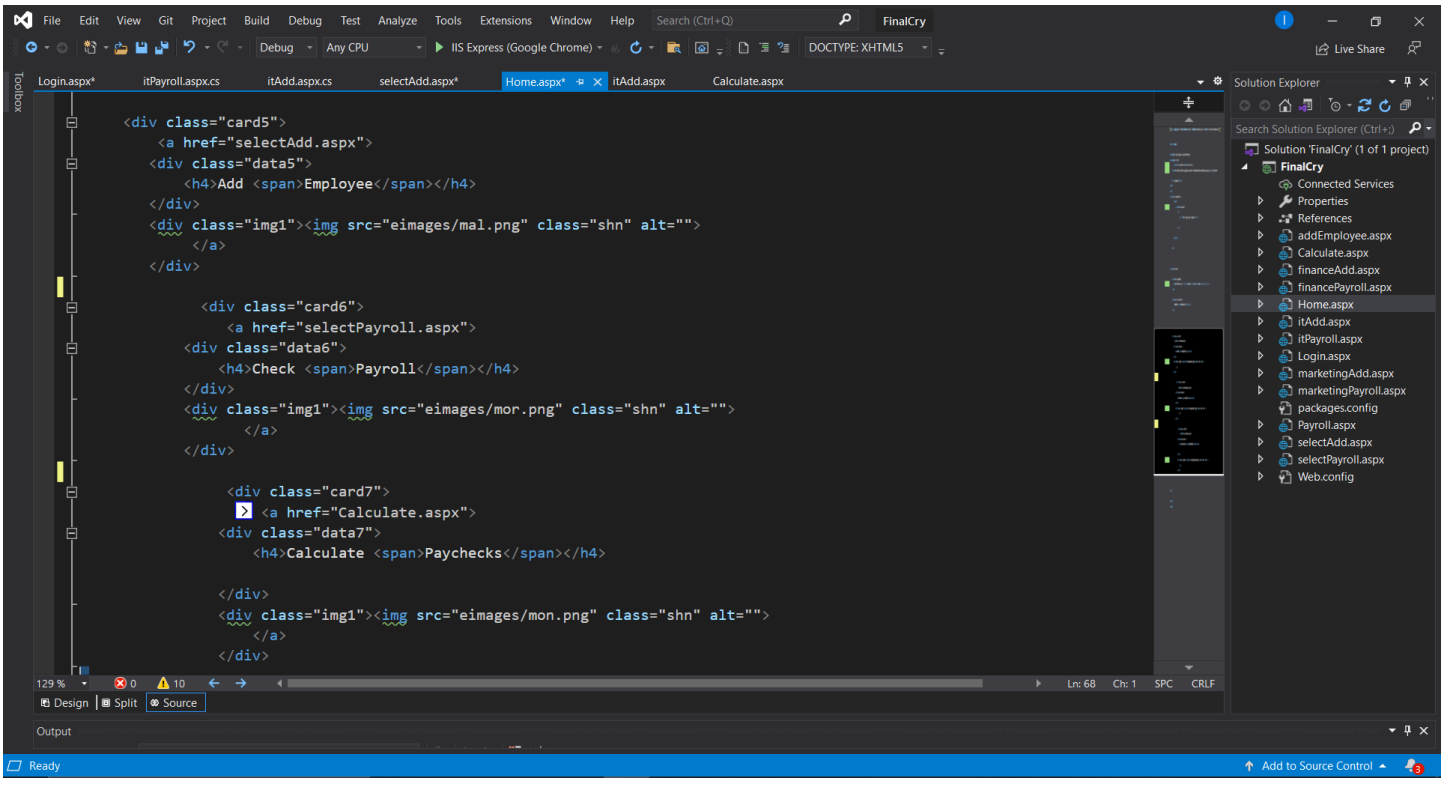
Need for New System:

- This System required less time for processing.
- Reduce paper work and paper cost.
- Reduce the infrastucture cost.
- Easily generate and maintain the reports
- Various details provid to the management at any time.
- Better Security.
- The System require less human resource.

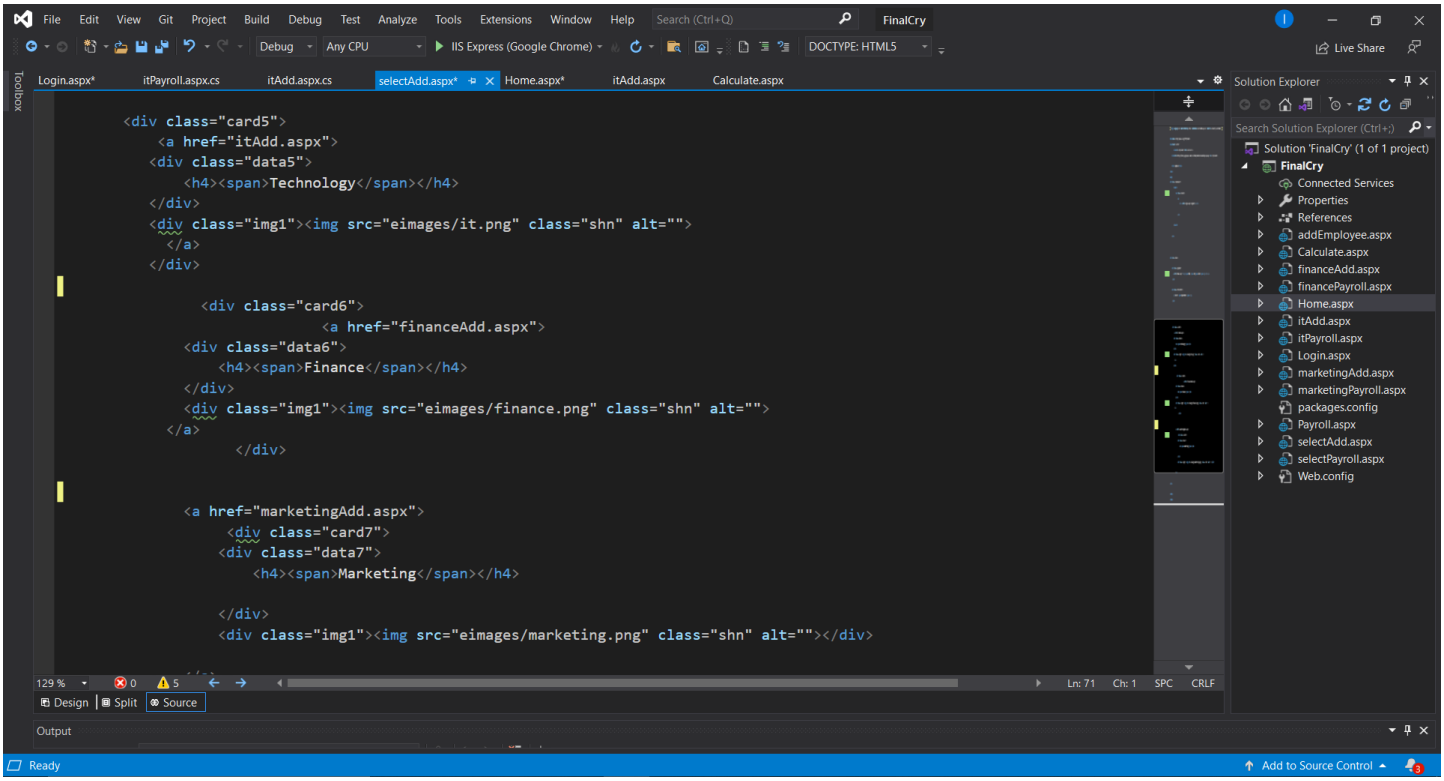
PROJECT CODE:



```
        </div>
      </div>
      <div class="forms">
          <div class="form-content">
            <div class="login-form">
              <div class="title">Login</div>
            <form autocomplete="off"  action="#">
              <div class="input-boxes">
                <div class="input-box">
                  <i class="fas fa-user"></i>
                  <input autocomplete="off"  type="text" placeholder="Enter your name" name="name" />
                </div>
                <div class="input-box">
                  <i class="fas fa-lock"></i>
                  <input autocomplete="off"  type="password" placeholder="Enter your password" name="password" />
                </div>
                <div class="text"><a href="#">Forgot password?</a></div>
                    <asp:Button cssClass="btn" ID="Button1" runat="server" Text="Go" OnClick="Button1_Click" />
      </form>
            </form>
    </div>
  </body>

  <style>
    /* Google Font Link */
  @import url('https://fonts.googleapis.com/css2?family=Poppins:wght@200;300;400;500;600;700&display=swap');
  *{
    margin: 0;
```



```
    <div class="card5">
        <a href="selectAdd.aspx">
      <div class="data5">
          <h4>Add <span>Employee</span></h4>
      </div>
      <div class="img1"><img src="eimages/mal.png" class="shn" alt="">
          </a>
      </div>

            <div class="card6">
               <a href="selectPayroll.aspx">
          <div class="data6">
              <h4>Check <span>Payroll</span></h4>
          </div>
          <div class="img1"><img src="eimages/mor.png" class="shn" alt="">
              </a>
          </div>

              <div class="card7">
                <a href="Calculate.aspx">
              <div class="data7">
                  <h4>Calculate <span>Paychecks</span></h4>

              </div>
              <div class="img1"><img src="eimages/mon.png" class="shn" alt="">
                  </a>
              </div>
```


Login.aspx*
itPayroll.aspx.cs
itAdd.aspx.cs
selectAdd.aspx*
Home.aspx*
itAdd.aspx
Calculate.aspx

<h4>Technology</h4>

<img src="eimages/it.png" class="shn" alt="">

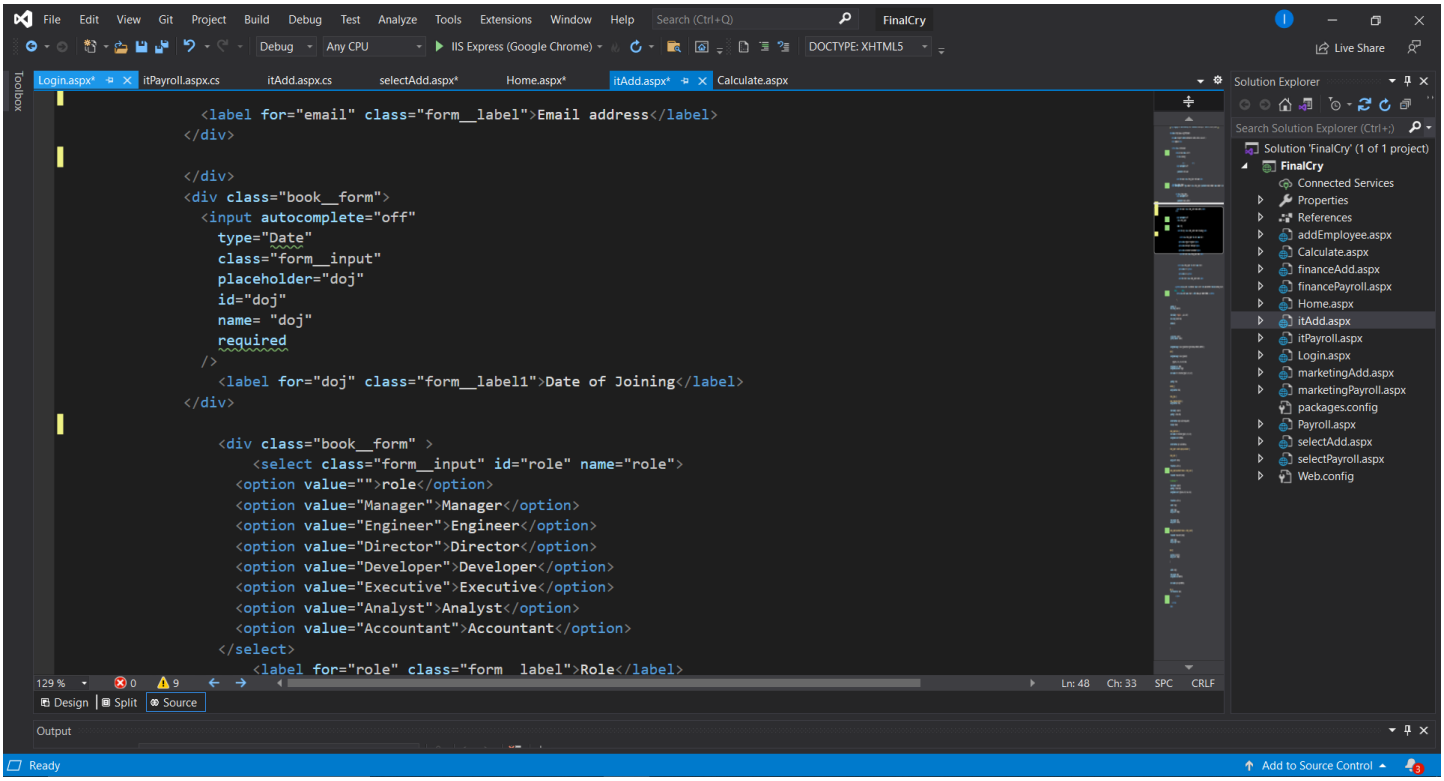
<h4>Finance</h4>

<img src="eimages/finance.png" class="shn" alt="">

<a href="marketingAdd.aspx">

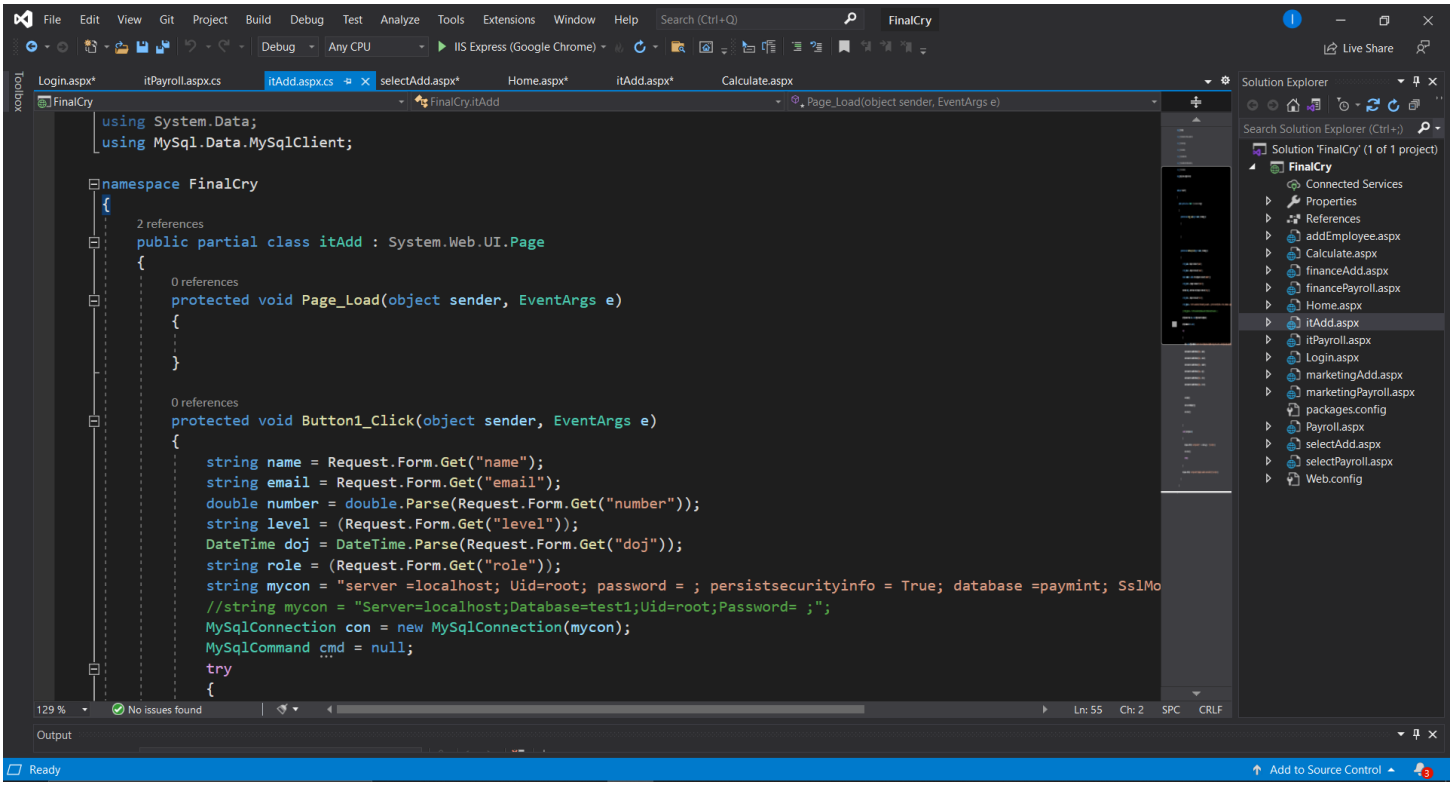
<h4>Marketing</h4>

<img src="eimages/marketing.png" class="shn" alt="">
Solution Explorer
Solution 'FinalCry' (1 of 1 project)
FinalCry
Connected Services
Properties
References
addEmployee.aspx
Calculate.aspx
financeAdd.aspx
financePayroll.aspx
Home.aspx
itAdd.aspx
itPayroll.aspx
Login.aspx
marketingAdd.aspx
marketingPayroll.aspx
packages.config
Payroll.aspx
selectAdd.aspx
selectPayroll.aspx
Web.config
Ready
Add to Source Control

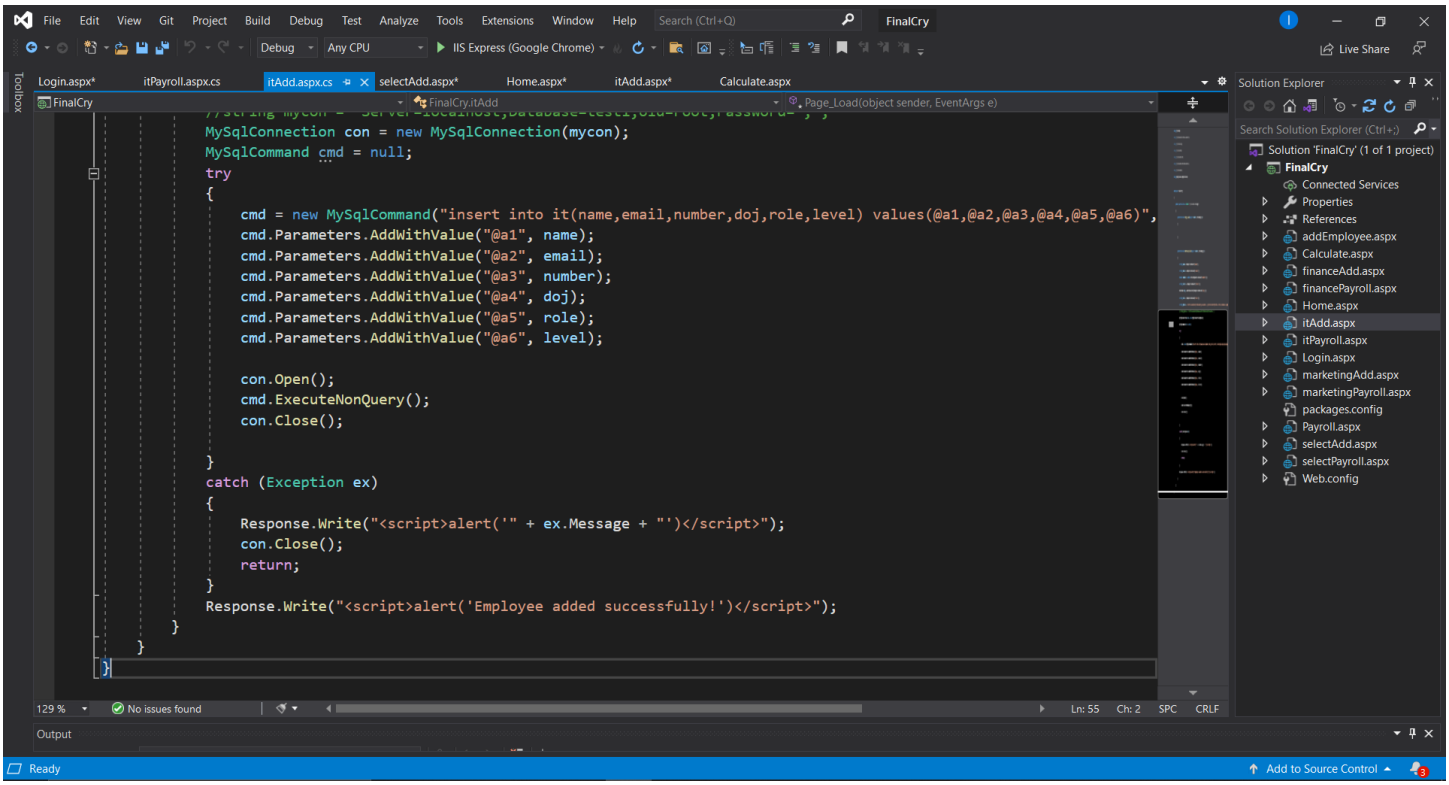

Login.aspx*
itPayroll.aspx.cs
itAdd.aspx.cs
selectAdd.aspx*
Home.aspx*
itAdd.aspx*
Calculate.aspx
<label for="email" class="form__label">Email address</label>

<input autocomplete="off"
type="Date"
class="form__input"
placeholder="doj"
id="doj"
name= "doj"
required
/>
<label for="doj" class="form__label1">Date of Joining</label>

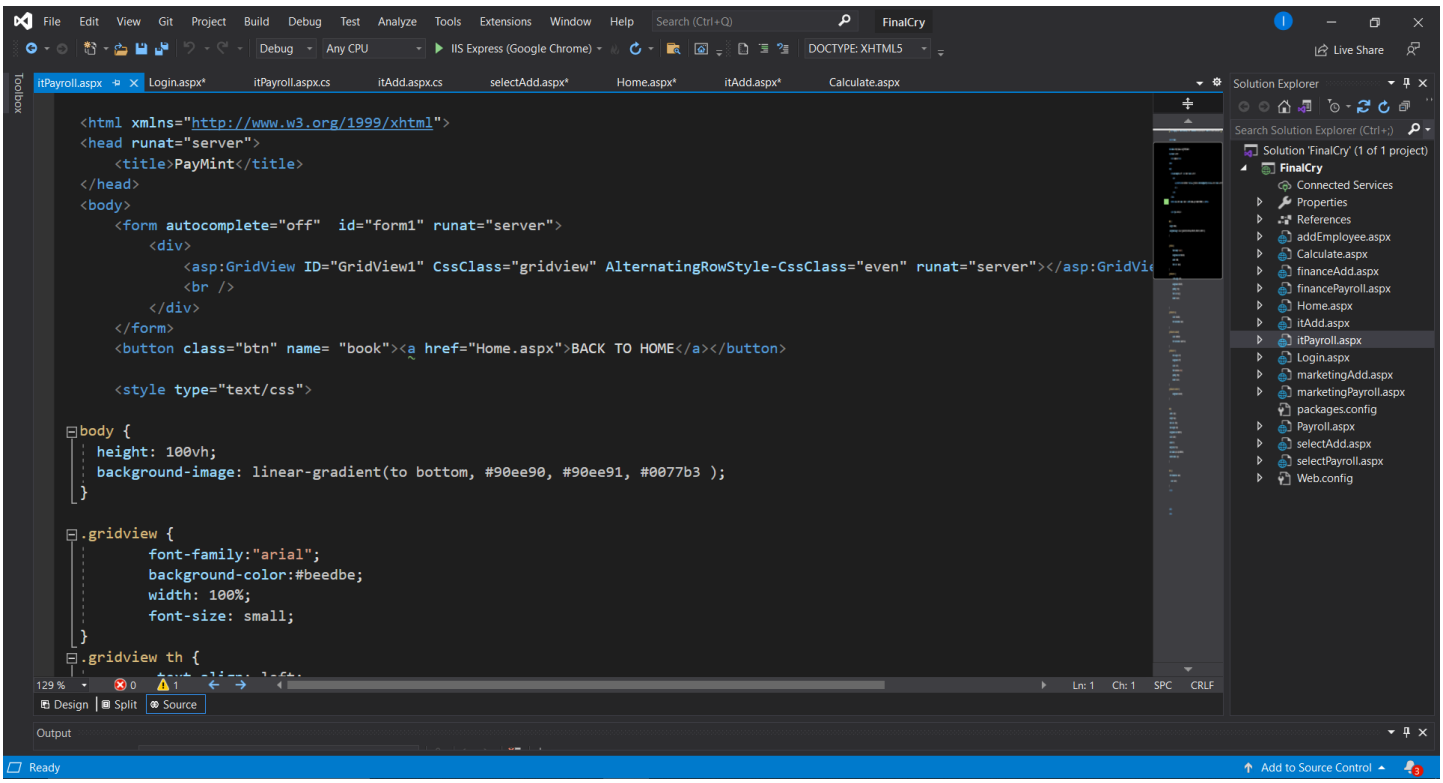
<select class="form__input" id="role" name="role">
<option value="">role</option>
<option value="Manager">Manager</option>
<option value="Engineer">Engineer</option>
<option value="Director">Director</option>
<option value="Developer">Developer</option>
<option value="Executive">Executive</option>
<option value="Analyst">Analyst</option>
<option value="Accountant">Accountant</option>
</select>
<label for="role" class="form__label">Role</label>
Solution Explorer
Solution 'FinalCry' (1 of 1 project)
FinalCry
Connected Services
Properties
References
addEmployee.aspx
Calculate.aspx
financeAdd.aspx
financePayroll.aspx
Home.aspx
itAdd.aspx
itPayroll.aspx
Login.aspx
marketingAdd.aspx
marketingPayroll.aspx
packages.config
Payroll.aspx
selectAdd.aspx
selectPayroll.aspx
Web.config
Ready
Add to Source Control



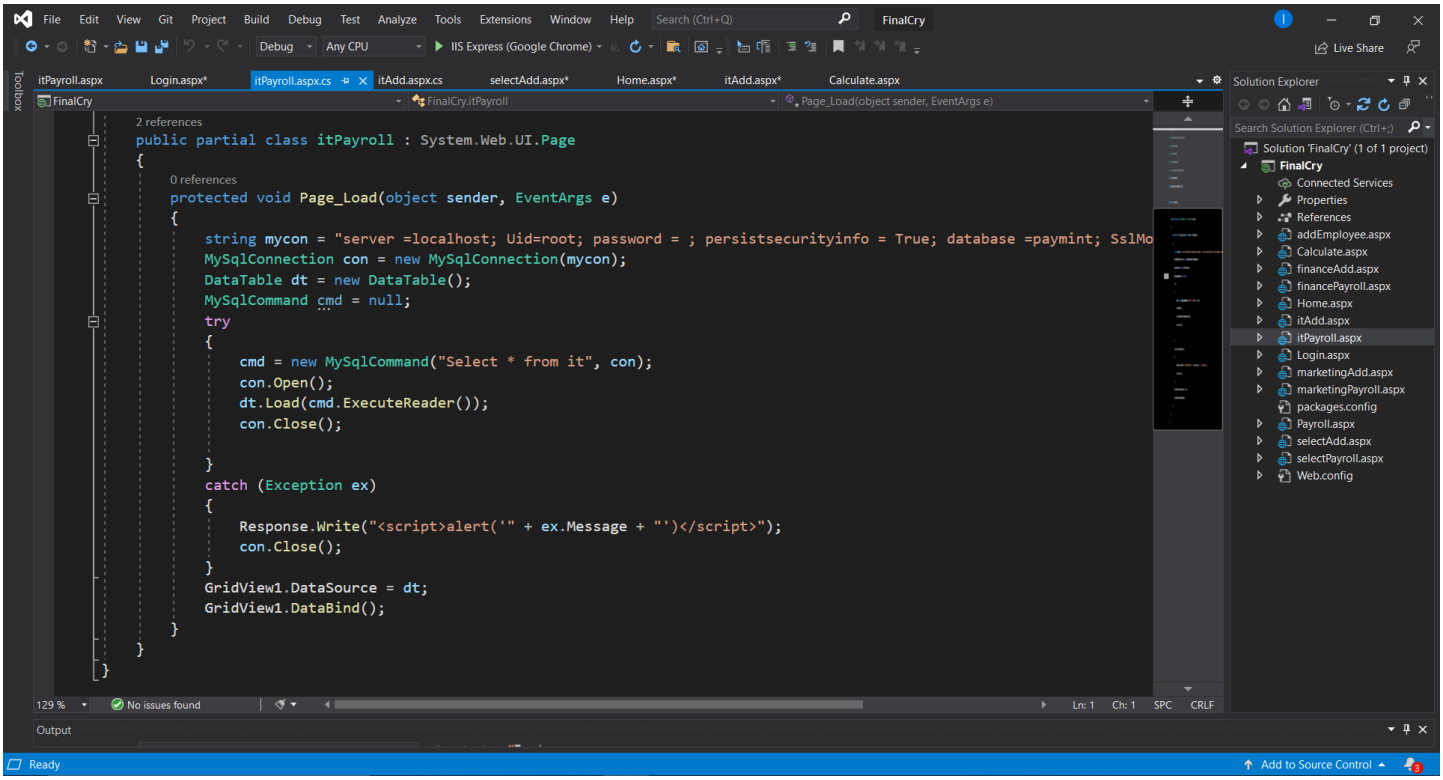
```
using System.Data;
using MySql.Data.MySqlClient;

namespace FinalCry
{
    2 references
    public partial class itAdd : System.Web.UI.Page
    {
        0 references
        protected void Page_Load(object sender, EventArgs e)
        {

        }

        0 references
        protected void Button1_Click(object sender, EventArgs e)
        {
            string name = Request.Form.Get("name");
            string email = Request.Form.Get("email");
            double number = double.Parse(Request.Form.Get("number"));
            string level = (Request.Form.Get("level"));
            DateTime doj = DateTime.Parse(Request.Form.Get("doj"));
            string role = (Request.Form.Get("role"));
            string mycon = "server =localhost; Uid=root; password = ; persistsecurityinfo = True; database =paymint; SslMo
            //string mycon = "Server=localhost;Database=test1;Uid=root;Password= ;";
            MySqlConnection con = new MySqlConnection(mycon);
            MySqlCommand cmd = null;
            try
            {
```



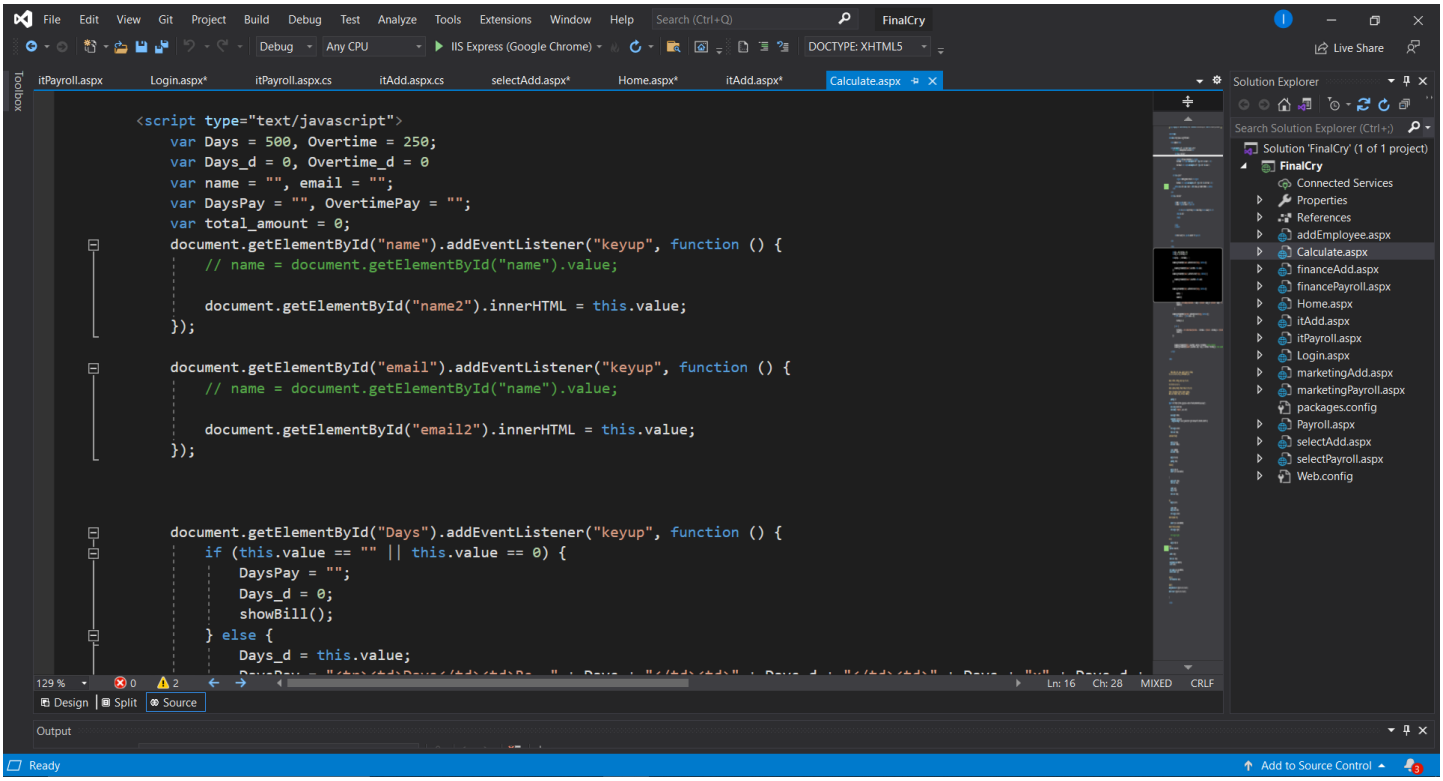
```
            MySqlConnection con = new MySqlConnection(mycon);
            MySqlCommand cmd = null;
            try
            {
                cmd = new MySqlCommand("insert into it(name,email,number,doj,role,level) values(@a1,@a2,@a3,@a4,@a5,@a6)",
                cmd.Parameters.AddWithValue("@a1", name);
                cmd.Parameters.AddWithValue("@a2", email);
                cmd.Parameters.AddWithValue("@a3", number);
                cmd.Parameters.AddWithValue("@a4", doj);
                cmd.Parameters.AddWithValue("@a5", role);
                cmd.Parameters.AddWithValue("@a6", level);

                con.Open();
                cmd.ExecuteNonQuery();
                con.Close();

            }
            catch (Exception ex)
            {
                Response.Write("<script>alert('" + ex.Message + "')</script>");
                con.Close();
                return;
            }
            Response.Write("<script>alert('Employee added successfully!')</script>");
        }
    }
}
```



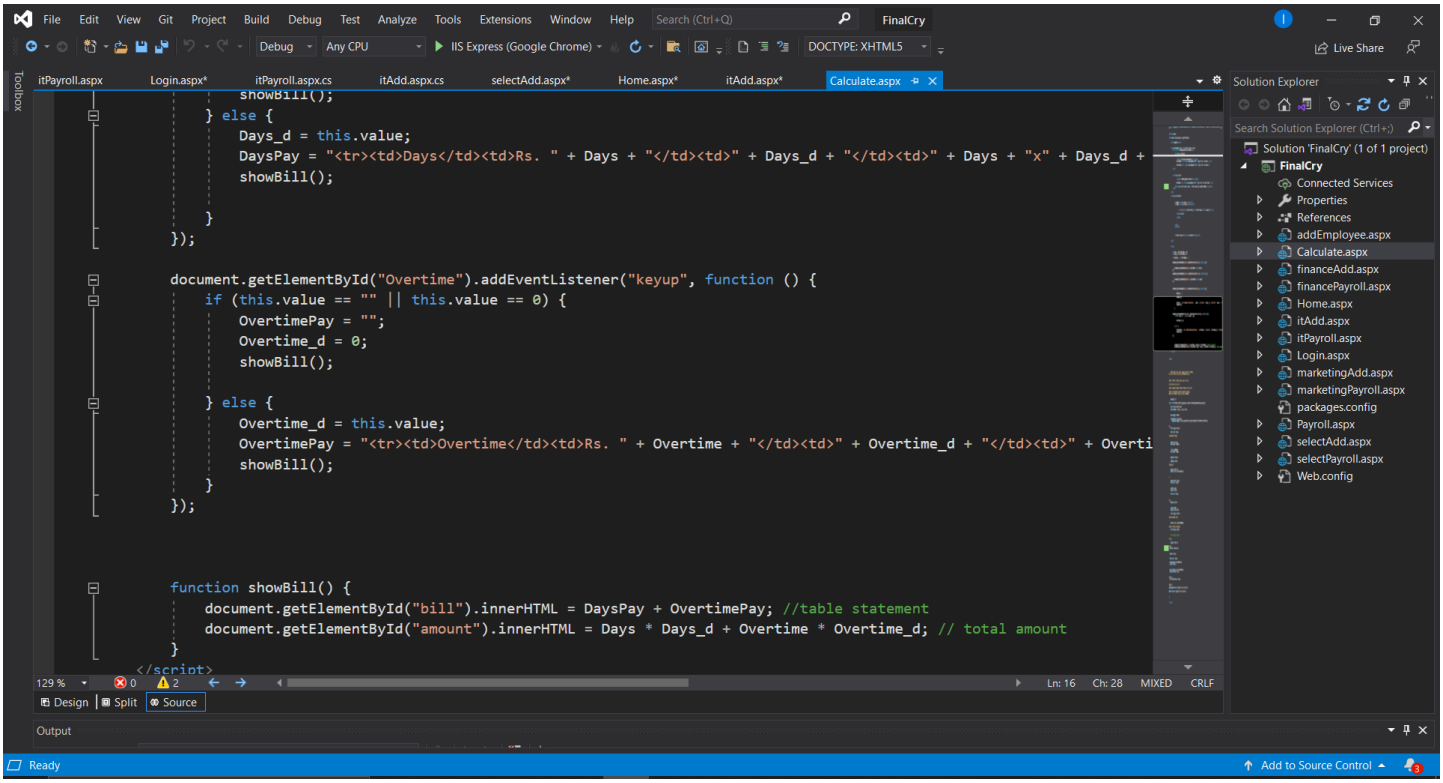
```
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>PayMint</title>
</head>
<body>
    <form autocomplete="off"  id="form1" runat="server">
        <div>
            <asp:GridView ID="GridView1" CssClass="gridview" AlternatingRowStyle-CssClass="even" runat="server"></asp:GridVie
            <br />
        </div>
    </form>
    <button class="btn" name= "book"><a href="Home.aspx">BACK TO HOME</a></button>

    <style type="text/css">

body {
  height: 100vh;
  background-image: linear-gradient(to bottom, #90ee90, #90ee91, #0077b3 );
}

.gridview {
        font-family:"arial";
        background-color:#beedbe;
        width: 100%;
        font-size: small;
}
.gridview th {
```



```
2 references
public partial class itPayroll : System.Web.UI.Page
{
    0 references
    protected void Page_Load(object sender, EventArgs e)
    {
        string mycon = "server =localhost; Uid=root; password = ; persistsecurityinfo = True; database =paymint; SslMo
        MySqlConnection con = new MySqlConnection(mycon);
        DataTable dt = new DataTable();
        MySqlCommand cmd = null;
        try
        {
            cmd = new MySqlCommand("Select * from it", con);
            con.Open();
            dt.Load(cmd.ExecuteReader());
            con.Close();

        }
        catch (Exception ex)
        {
            Response.Write("<script>alert('" + ex.Message + "')</script>");
            con.Close();
        }
        GridView1.DataSource = dt;
        GridView1.DataBind();
    }
}
```

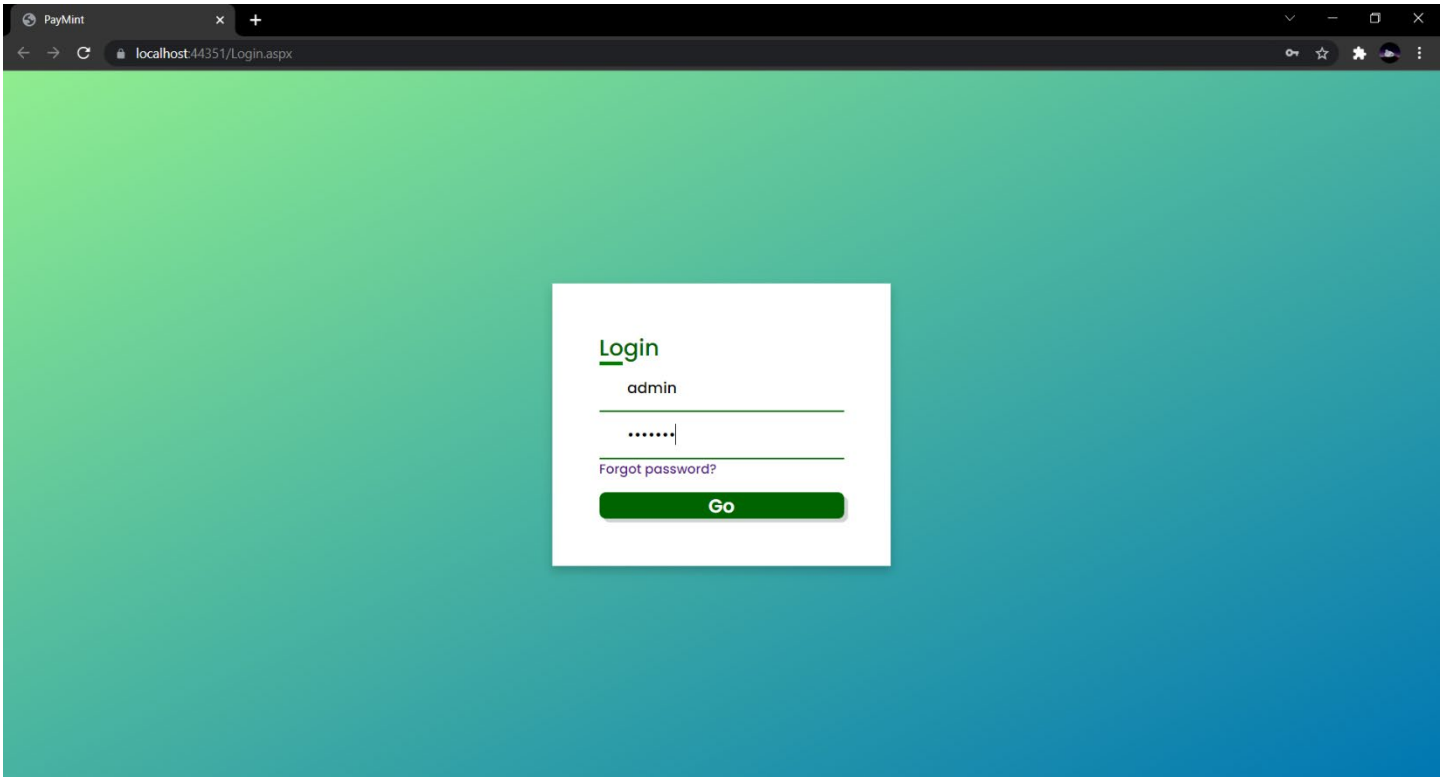


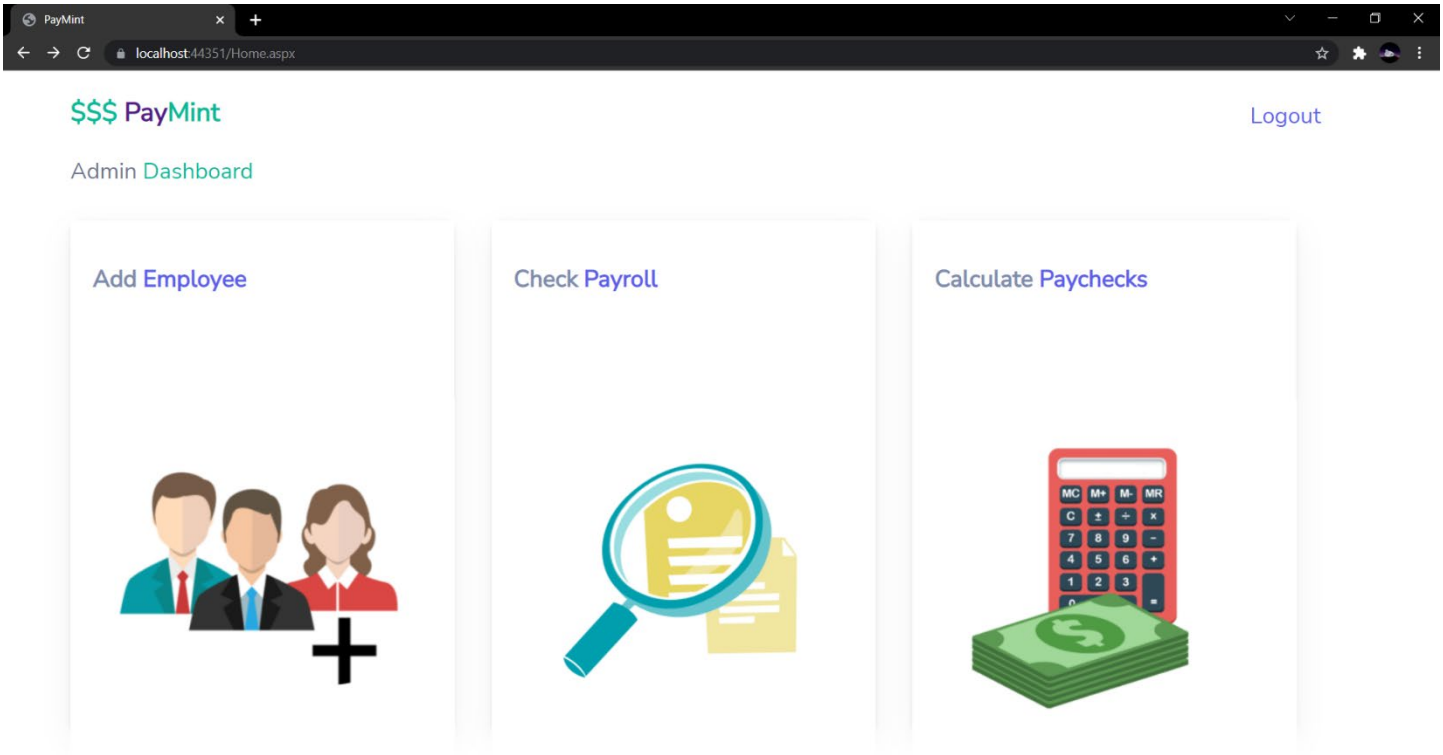
```
<script type="text/javascript">
    var Days = 500, Overtime = 250;
    var Days_d = 0, Overtime_d = 0
    var name = "", email = "";
    var DaysPay = "", OvertimePay = "";
    var total_amount = 0;
    document.getElementById("name").addEventListener("keyup", function () {
        // name = document.getElementById("name").value;

        document.getElementById("name2").innerHTML = this.value;
    });

    document.getElementById("email").addEventListener("keyup", function () {
        // name = document.getElementById("name").value;

        document.getElementById("email2").innerHTML = this.value;
    });



    document.getElementById("Days").addEventListener("keyup", function () {
        if (this.value == "" || this.value == 0) {
            DaysPay = "";
            Days_d = 0;
            showBill();
        } else {
            Days_d = this.value;
```

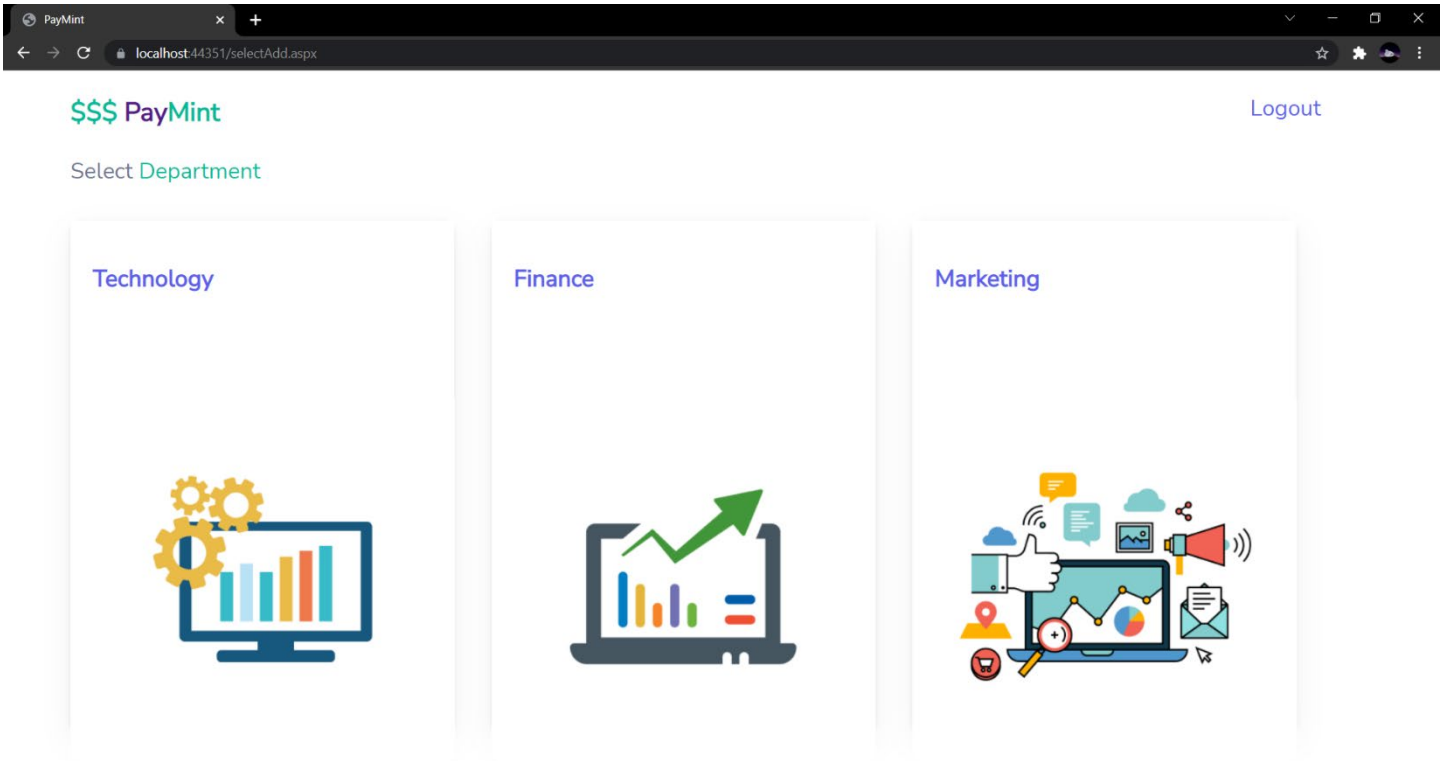


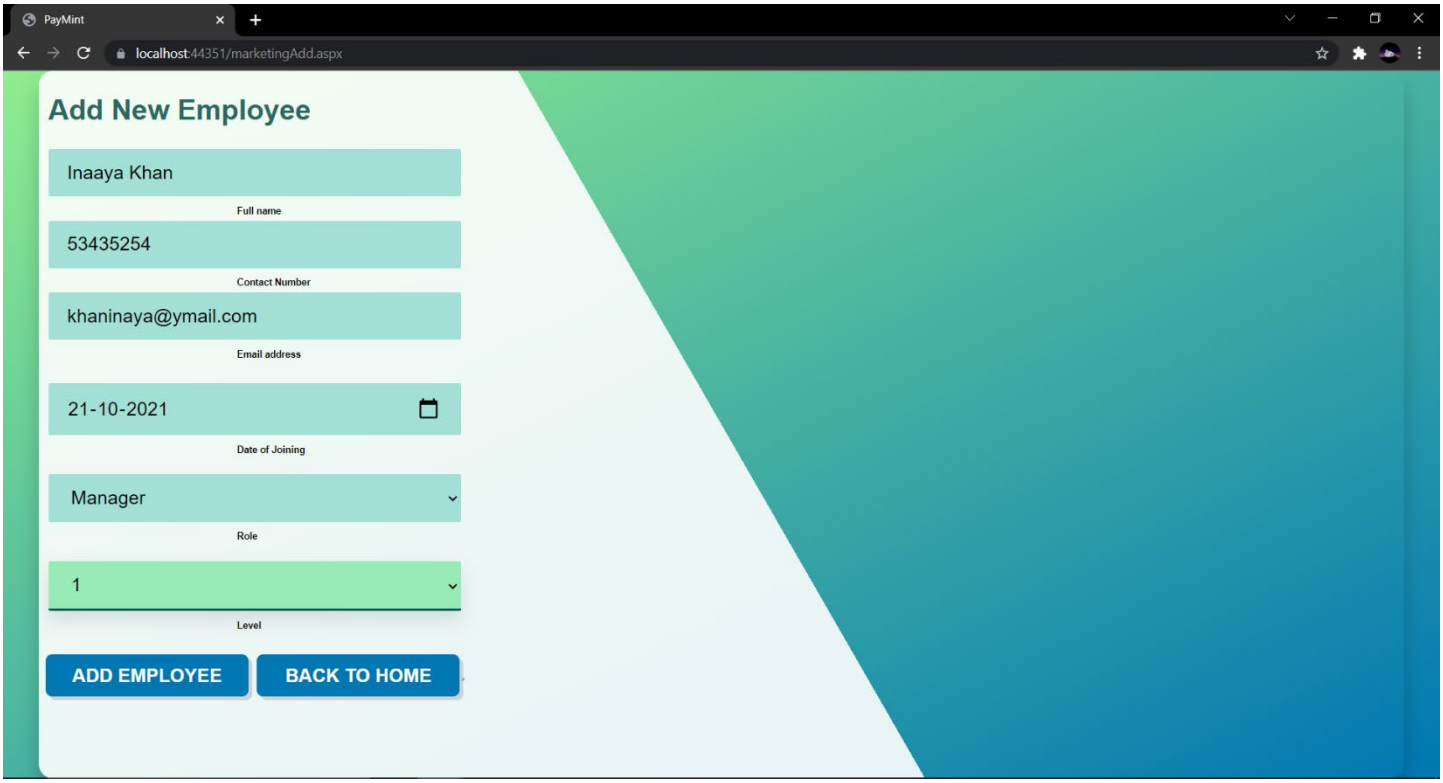
```
            showBill();
        } else {
            Days_d = this.value;
            DaysPay = "<tr><td>Days</td><td>Rs. " + Days + "</td><td>" + Days_d + "</td><td>" + Days + "x" + Days_d +
            showBill();

        }
    });

    document.getElementById("Overtime").addEventListener("keyup", function () {
        if (this.value == "" || this.value == 0) {
            OvertimePay = "";
            Overtime_d = 0;
            showBill();

        } else {
            Overtime_d = this.value;
            OvertimePay = "<tr><td>Overtime</td><td>Rs. " + Overtime + "</td><td>" + Overtime_d + "</td><td>" + Overti
            showBill();
        }
    });



    function showBill() {
        document.getElementById("bill").innerHTML = DaysPay + OvertimePay; //table statement
        document.getElementById("amount").innerHTML = Days * Days_d + Overtime * Overtime_d; // total amount
    }
</script>
```

IMPLEMENTATION:

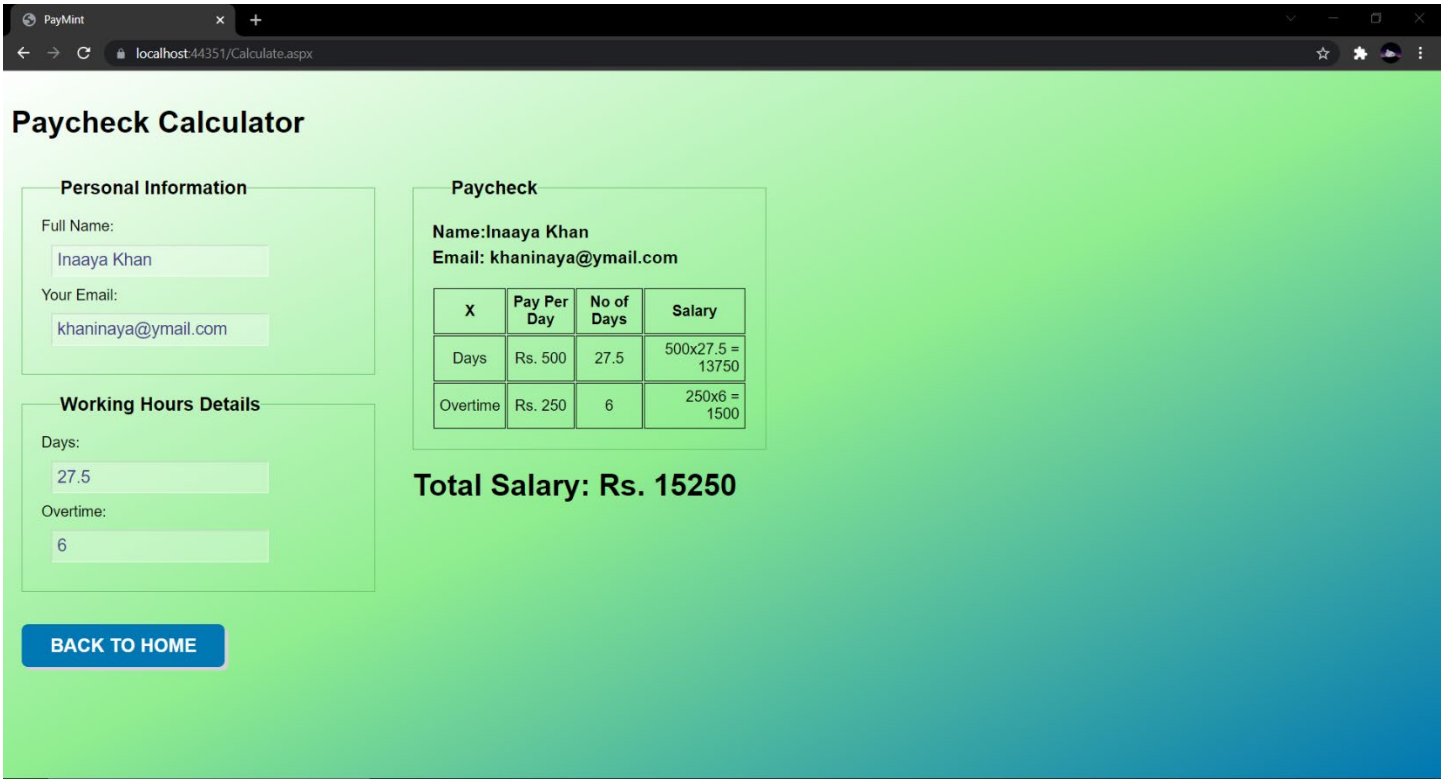





PayMint
localhost:44351/selectAdd.aspx
$$$ PayMint
Logout
Select Department
Technology
Finance
Marketing


PayMint
localhost:44351/marketingAdd.aspx
Add New Employee
Inaaya Khan
Full name
53435254
Contact Number
khaninaya@ymail.com
Email address
21-10-2021
Date of Joining
Manager
Role
1
Level
ADD EMPLOYEE
BACK TO HOME

name	email	number	doj	role	level
Anmol Goyal	dfgfg@gmail.com	537547	11-10-2021 00:00:00	Accountant	3
test	gf@sdgm.com	6546	31-03-0004 00:00:00	Director	2
TEST	fsfsd@gmail.com	324234646	21-10-2021 00:00:00	Manager	1
Aman Singh	sadfgdf@gmail.com	354	08-10-2021 00:00:00	Developer	2
Inaaya Khan	khaninaya@ymail.com	53435254	21-10-2021 00:00:00	Manager	1



RESULTS & DISCUSSION:

- We learnt C# language.
- We have design our project using ASP.Net Visual Studio 2019.
- We learnt about uses of database, importance of database and how to create database.
- We learnt how to create a site and input output data.
- We encountered different difficulties and problem which were then solved gradually.
- At last we developed a confidence and happiness after creating of something on our own.

CONCLUSION:

We successfully made a project that allows management of employee data and provides better payroll tracking for the admin. This project is built keeping in mind that it is to be used by only one user that is the admin. It is built for use in small scale organization where the number of employees is limited. According to the requested requirement the admin can add new employees in various departments. The Admin can also calculate predefined pay grades for the employees, with the addition of overtime wage. The required department records can be easily viewed by the admin anytime time he wants in an instant. The payment of the employee is based on monthly basis. This amount can be calculated using the paycheck calculator. The main objective of this framework is to save time, make the system cost effective and management records efficiently.

FUTURE SCOPE:

- The option to print the records in future.
- We intend to add a leave structure in the future.
- We would like to implement a regular backup mechanism to back up the employee database to avoid disasters.
- The system can be developed in such a way that its existing features can be modified to better versions.

REFERNECES:

- https://www.w3schools.com/asp/default.ASP
- https://www.tutorialspoint.com/asp.net/index.htm
- https://www.youtube.com/watch?v=C5cnZ-gZy2I
- https://www.javatpoint.com/asp-net-tutorial