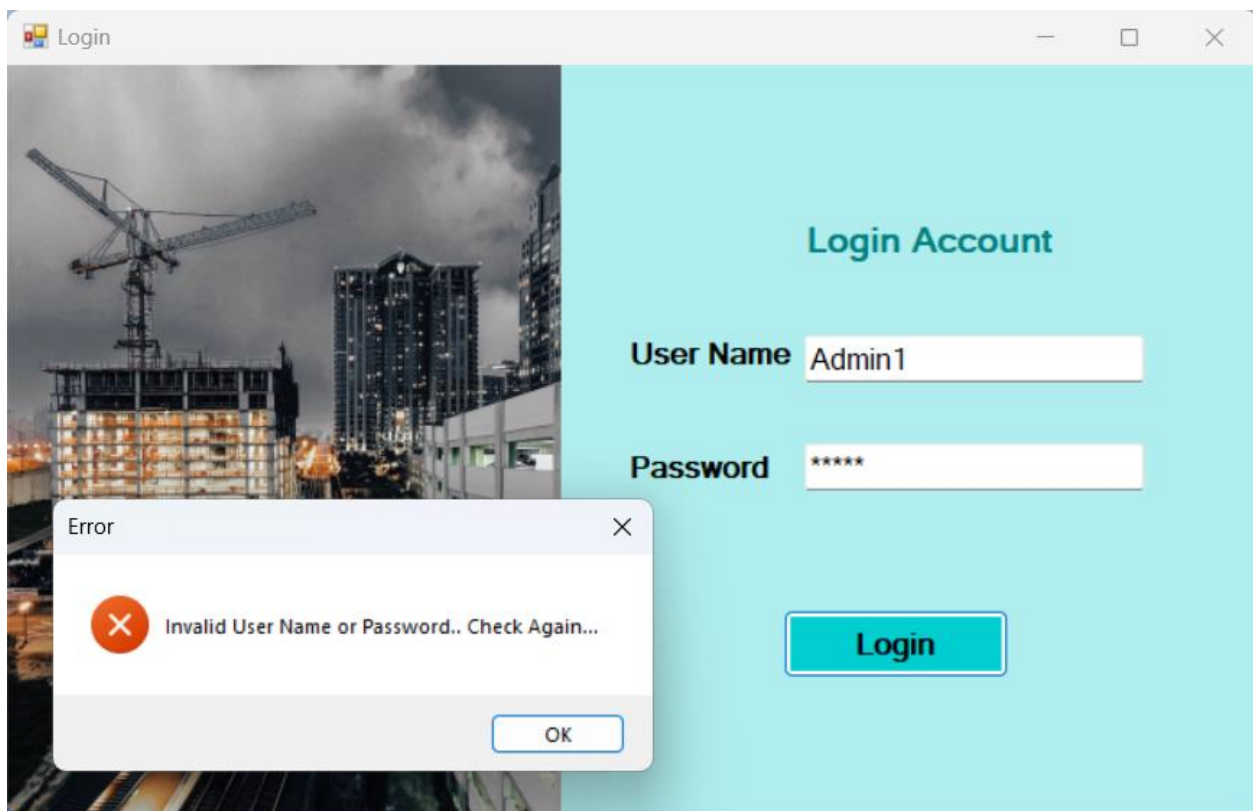
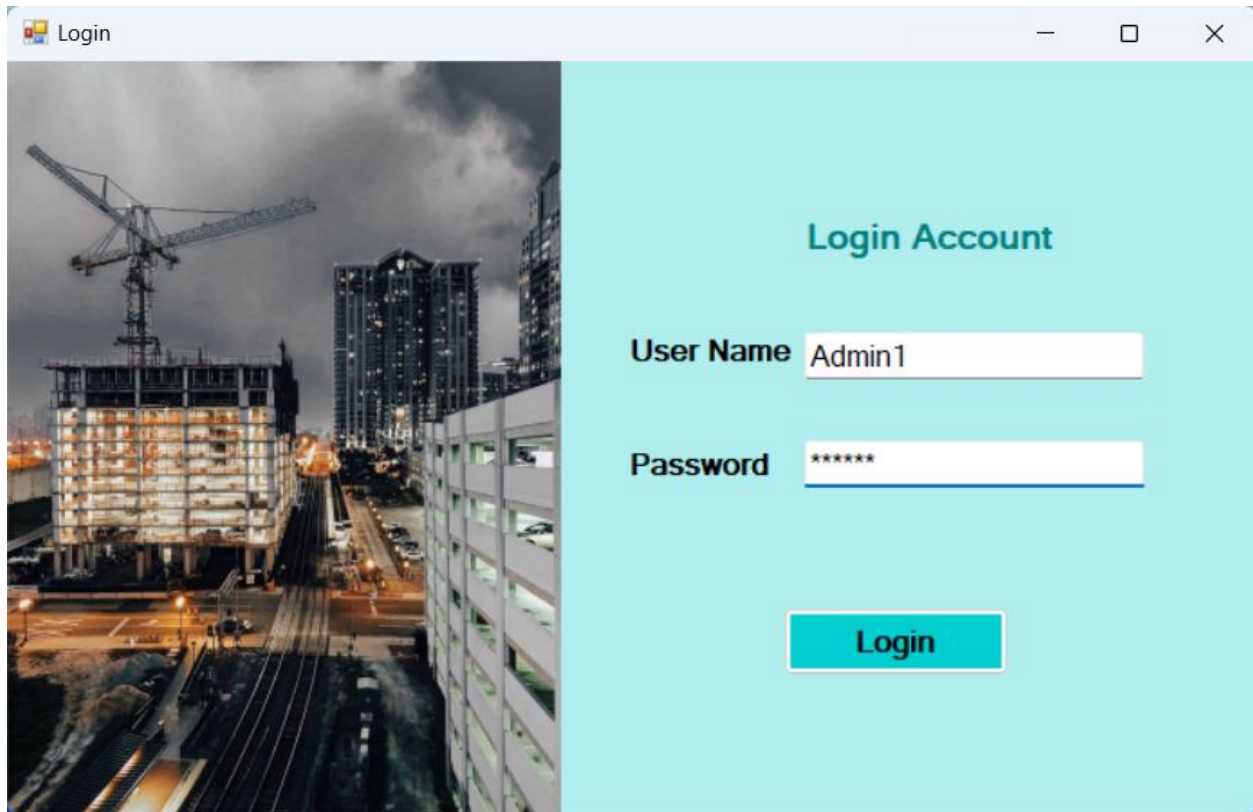


Design of each form in the application & code implementation

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;

namespace ProjectManagementSystem
{
    public partial class Login : Form
    {
        public Login()
        {
            InitializeComponent();
        }

        private void btnLogin_Click(object sender, EventArgs e)
        {
            if (textUser.Text == "Admin1" && textPassword.Text == "admin1") {
                Home h1 = new Home();
                this.Hide();
                h1.ShowDialog();
                this.Close();
            }
        }
    }
}
```

```

    }
    else
    {
        MessageBox.Show("Invalid User Name or Password.. Check
Again...", "Error", MessageBoxButtons.OK , MessageBoxIcon.Error);
        textUser.Clear();
        textPassword.Clear();
    };
}
}
}

```

=====

Dashboard



```

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 ProjectManagementSystem
{
    public partial class Home : Form
    {
        public Home()
        {
            InitializeComponent();

            private void button2_Click(object sender, EventArgs e)
            {
                button1.BackColor = Color.Cyan;
                button2.BackColor = Color.Coral;
                button3.BackColor = Color.Cyan;
                button4.BackColor = Color.Cyan;
                button5.BackColor = Color.Cyan;
                pictureBox2.Visible = false;
                Employees e1 = new Employees();
                e1.MdiParent = this;
                e1.Dock = DockStyle.Fill;
                e1.Show();
            }

            private void button1_Click(object sender, EventArgs e)
            {
                button1.BackColor = Color.Coral;
                button2.BackColor = Color.Cyan;
                button3.BackColor = Color.Cyan;
                button4.BackColor = Color.Cyan;
                button5.BackColor = Color.Cyan;
                pictureBox2.Visible = false;
                Projects p1 = new Projects();
                p1.MdiParent = this;
                p1.Dock = DockStyle.Fill;
                p1.Show();
            }

            private void panel3_Paint(object sender, PaintEventArgs e)
            {
            }

            private void Home_Load(object sender, EventArgs e)
            {
                date.Text = DateTime.Now.ToString("yyyy-MM-dd");
            }
        }
    }

```

```

    }

    private void button5_Click(object sender, EventArgs e)
    {
        button1.BackColor = Color.Cyan;
        button2.BackColor = Color.Cyan;
        button3.BackColor = Color.Cyan;
        button4.BackColor = Color.Cyan;
        button5.BackColor = Color.Coral;
        pictureBox2.Visible = false;
        Progress p2 = new Progress();
        p2.MdiParent = this;
        p2.Dock = DockStyle.Fill;
        p2.Show();
    }

    public void timer5_Tick(object sender, EventArgs e)
    {
        // Update the label with the current date and time
    }

    private void panel2_Paint(object sender, PaintEventArgs e)
    {
    }

    private void button3_Click(object sender, EventArgs e)
    {
        button1.BackColor = Color.Cyan;
        button2.BackColor = Color.Cyan;
        button3.BackColor = Color.Coral;
        button4.BackColor = Color.Cyan;
        button5.BackColor = Color.Cyan;
        pictureBox2.Visible = false;
        Labour l1 = new Labour();
        l1.MdiParent = this;
        l1.Dock = DockStyle.Fill;
        l1.Show();
    }

    private void button4_Click(object sender, EventArgs e)
    {
        button1.BackColor = Color.Cyan;
        button2.BackColor = Color.Cyan;
        button3.BackColor = Color.Cyan;
        button4.BackColor = Color.Coral;
        button5.BackColor = Color.Cyan;
        pictureBox2.Visible = false;
        Resources r1 = new Resources();
        r1.MdiParent = this;
        r1.Dock = DockStyle.Fill;
        r1.Show();
    }
}

```

=====

Projects 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.Tasks;
using System.Windows.Forms;

namespace ProjectManagementSystem
{
    public partial class Projects : Form
    {
        public Projects()
        {
            InitializeComponent();
        }

        private void label1_Click(object sender, EventArgs e)
        {
        }
    }
}
```

```

    }

    private void viewProjectsToolStripMenuItem_Click(object sender, EventArgs e)
    {

    }

    private void newToolStripMenuItem_Click(object sender, EventArgs e)
    {

    }

    private void addNewToolStripMenuItem_Click(object sender, EventArgs e)
    {

    }

    private void projCount_Click(object sender, EventArgs e)
    {

    }

    private void label2_Click(object sender, EventArgs e)
    {

    }

    private void Projects_Load(object sender, EventArgs e)
    {
        SqlConnection conn = new SqlConnection("Data
Source=localhost\\SQLEXPRESS;Initial Catalog=PMSDB;Integrated Security=True");
        conn.Open();
        SqlCommand cmd1 = new SqlCommand("Select Count(ProjectId) From
Projects", conn);
        int projectCount = (int)cmd1.ExecuteScalar();
        total.Text = projectCount.ToString();

        SqlCommand cmd2 = new SqlCommand("Select Count(ProjectId) From Projects
Where (Status = 'Completed' or Status = 'Closed')", conn);
        int CompleteCount = (int)cmd2.ExecuteScalar();
        complete.Text = CompleteCount.ToString();
        conn.Close();
    }

    private void label3_Click(object sender, EventArgs e)
    {

    }

    private void exitToolStripMenuItem_Click(object sender, EventArgs e)
    {
        Home h1 = new Home();
        this.Hide();
        h1.ShowDialog();
        this.Close();
    }

```

```

e)    private void viewAllProjectsToolStripMenuItem_Click(object sender, EventArgs
      {
      }

      private void serchProjectToolStripMenuItem_Click(object sender, EventArgs e)
      {
      }

      private void searchToolStripMenuItem_Click(object sender, EventArgs e)
      {
      }

e)    private void searchProjectsToolStripMenuItem_Click(object sender, EventArgs
      {
      }

      private void button1_Click(object sender, EventArgs e)
      {
          Add_Projects ap1 = new Add_Projects();
          ap1.ShowDialog();
      }

      private void button2_Click(object sender, EventArgs e)
      {
          View_Projects vp = new View_Projects();
          vp.ShowDialog();
      }

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

```

=====

Add Project Form

The screenshot shows a web application interface for 'PJM Project Management'. A sidebar on the left contains navigation buttons: 'Projects' (highlighted in orange), 'Employee', 'Labour', 'Resource', and 'Progress'. The main content area displays a modal window titled 'Add Projects' with the heading 'Create a new Project'. The form fields are as follows:

Field	Value
Project Id	P007
Name	icing Track Repair
Customer Id	C001
Responsible	E002
Start Date	Friday, September 29, 2023
End Date	Saturday, July 27, 2024
Status	Planned
Labor Count	30

At the bottom of the form, there are two buttons: 'Save' (highlighted) and 'Clear'.

This screenshot shows the same 'Add Projects' form as above, but with a success message overlay. The 'Save' button is highlighted. A small dialog box titled 'Successfull' is centered on the screen, containing an information icon and the text 'Project Added Successfully'. The dialog box has an 'OK' button at the bottom.

```

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.Tasks;
using System.Windows.Forms;

namespace ProjectManagementSystem
{
    public partial class Add_Projects : Form
    {
        public Add_Projects()
        {
            InitializeComponent();
        }

        private void button2_Click(object sender, EventArgs e)
        {
            Projects p1 = new Projects();
            this.Hide();
            p1.ShowDialog();
            this.Close();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            SqlConnection conn = new SqlConnection("Data
Source=localhost\\SQLEXPRESS;Initial Catalog=PMSDB;Integrated Security=True");
            conn.Open();
            SqlCommand cmd = new SqlCommand("Insert into Projects values
(@ProjectId,@Name,@StartDate,@EndDate,@Responsible,@CustomerId,@LaborCount,@Status)"
, conn);
            cmd.Parameters.AddWithValue("@ProjectId", txtId.Text);
            cmd.Parameters.AddWithValue("@Name", txtName.Text);
            cmd.Parameters.AddWithValue("@StartDate", DateTime.Parse(date1.Text));
            cmd.Parameters.AddWithValue("@EndDate", DateTime.Parse(date2.Text));
            cmd.Parameters.AddWithValue("@Responsible", resBox.Text);
            cmd.Parameters.AddWithValue("@CustomerId", customerBox.Text);
            cmd.Parameters.AddWithValue("@LaborCount", int.Parse(txtLabor.Text));
            cmd.Parameters.AddWithValue("@Status", statusBox.Text);
            cmd.ExecuteNonQuery();

            conn.Close();

            MessageBox.Show("Project Added Successfully", "Successfull",
MessageBoxButtons.OK, MessageBoxIcon.Information);

            txtId.Clear();
            txtName.Clear();
            date1.Text = DateTime.Now.ToString();
            date2.Text = DateTime.Now.ToString();
            resBox.Text = "";
            customerBox.Text = "";
            txtLabor.Clear();

```

```

        statusBox.Text = "";
    }

    private void button3_Click(object sender, EventArgs e)
    {
        txtId.Clear();
        txtName.Clear();
        date1.Text = DateTime.Now.ToString();
        date2.Text = DateTime.Now.ToString();
        resBox.Text = "";
        customerBox.Text = "";
        txtLabor.Clear();
        statusBox.Text = "";
    }

    private void Add_Projects_Load(object sender, EventArgs e)
    {
        SqlConnection conn = new SqlConnection("Data
Source=localhost\\SQLEXPRESS;Initial Catalog=PMSDB;Integrated Security=True");
        conn.Open();
        SqlCommand cmd1 = new SqlCommand("Select EmployeeId From EmpTemp Where
Role = 'Manager'", conn);
        List<string> EmpIds = new List<string>();

        using (SqlDataReader reader1 = cmd1.ExecuteReader())
        {
            while (reader1.Read())
            {
                string empId = reader1["EmployeeId"].ToString(); // Assuming
ProjectId is a string
                EmpIds.Add(empId);
            }
        }

        // Convert the list to an array if needed
        string[] empIdsArray = EmpIds.ToArray();

        // Populate a ListBox or another control with the array
        resBox.Items.AddRange(empIdsArray);

        SqlCommand cmd2 = new SqlCommand("Select CustomerId From Customer",
conn);
        List<string> custIds = new List<string>();

        using (SqlDataReader reader2 = cmd2.ExecuteReader())
        {
            while (reader2.Read())
            {
                string custId = reader2["CustomerId"].ToString(); // Assuming
ProjectId is a string
                custIds.Add(custId);
            }
        }

        // Convert the list to an array if needed
        string[] custIdsArray = custIds.ToArray();
    }

```

```

        // Populate a ListBox or another control with the array
        customerBox.Items.AddRange(custIdsArray);

        conn.Close();
    }
}

```

=====

View Project Form

The screenshot shows a web application window titled "View_Projects". The main content area has a light blue header with the word "PROJECTS" in bold. Below the header is a table with the following data:

ProjectId	Name	StartDate	EndDate	Responsible	CustomerId	LaborCount	Status
P001	A-Construction	9/23/2023	6/30/2024	E001	C001	50	Analyzed
P002	A - Road Construction	9/24/2023	2/29/2024	E002	C002	60	Planned
P003	B-Construction	9/24/2023	12/31/2023	E001	C001	40	Analyzed
P004	B - Yard Construction	9/25/2023	12/31/2023	E002	C002	20	Planned
P005	B - School Building	9/28/2023	4/30/2024	E001	C001	70	Started
P006	C - Apartment Construc...	9/28/2023	8/31/2024	E002	C002	100	Analyzed
P007	A - Racing Track Repair	9/29/2023	7/27/2024	E002	C001	30	Planned

At the bottom of the window, there are two buttons: "Search Project" and "Add a Project".

```

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 ProjectManagementSystem
{
    public partial class View_Projects : Form

```

```

{
    public View_Projects()
    {
        InitializeComponent();
    }

    private void button1_Click(object sender, EventArgs e)
    {
        Add_Projects ap1 = new Add_Projects();
        ap1.ShowDialog();
    }

    private void button2_Click(object sender, EventArgs e)
    {
        Projects p1 = new Projects();
        this.Hide();
        p1.ShowDialog();
        this.Close();
    }

    private void label1_Click(object sender, EventArgs e)
    {
    }

    private void View_Projects_Load(object sender, EventArgs e)
    {
        this.sqlDataAdapter1.Fill(this.projectsSet1.Projects);
    }

    private void button2_Click_1(object sender, EventArgs e)
    {
        Search_Project sp1 = new Search_Project();
        sp1.ShowDialog();
    }
}

```

=====

Project Details Form

PJM
Project Management

Projects

Employee

Labour

Resource

Progress

Project Details

Project Id: P007 Search View All

Name: A - Racing Track Repair

Customer Id: C001 Responsible: E002

Start Date: 9/29/2023 12:00:00 AM

End Date: 7/27/2024 12:00:00 AM

Labor Count: 30 Status: Planned

Save

Planned
Analyzed
Started
Completed
Closed

PJM
Project Management

Projects

Employee

Labour

Resource

Progress

Project Details

Project Id: P007 Search View All

Name: A - Racing Track Repair

Customer Id: C001 Responsible: E002

Start Date: 9/29/2023 12:00:00 AM

End Date: 7/27/2024 12:00:00 AM

Labor Count: 30 Status: Started

Save Clear

Successfull

Updated Successfully

OK


```

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.OleDb;
using System.Data.SqlClient;

namespace ProjectManagementSystem
{
    public partial class Search_Project : Form
    {
        public Search_Project()
        {
            InitializeComponent();
        }

        private void button2_Click(object sender, EventArgs e)
        {
            Home h1 = new Home();
            this.Hide();
            h1.ShowDialog();
            this.Close();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            SqlConnection conn = new SqlConnection("Data
Source=localhost\\SQLEXPRESS;Initial Catalog=PMSDB;Integrated Security=True");
            conn.Open();
            SqlCommand cmd = new SqlCommand("Select * from Projects where
ProjectId=@id", conn);
            cmd.Parameters.AddWithValue("id", txtId.Text);
            SqlDataReader reader1;
            reader1 = cmd.ExecuteReader();
            if(reader1.Read())
            {
                txtName.Text = reader1["Name"].ToString();
                Responsible.Text = reader1["Responsible"].ToString();
                CustomerId.Text = reader1["CustomerId"].ToString();
                StartDate.Text = reader1["StartDate"].ToString();
                EndDate.Text = reader1["EndDate"].ToString();
                LaborCount.Text = reader1["LaborCount"].ToString();
                statusBox.Text = reader1["Status"].ToString();
            }
            else
            {
                MessageBox.Show("Invalid Project ID Check Again..", "Data Not
Found", MessageBoxButtons.OK, MessageBoxIcon.Error);
            }
        }

        private void button3_Click(object sender, EventArgs e)

```

```

    {
        txtId.Clear();
        txtName.Text = "";
        Responsible.Text = "";
        CustomerId.Text = "";
        StartDate.Text = "";
        EndDate.Text = "";
        LaborCount.Text = "";
        statusBox.Text = "";
    }

    private void button2_Click_1(object sender, EventArgs e)
    {
        SqlConnection conn = new SqlConnection("Data
Source=localhost\\SQLEXPRESS;Initial Catalog=PMSDB;Integrated Security=True");
        conn.Open();
        SqlCommand cmd = new SqlCommand("update Projects set Status=@Status
Where ProjectId=@id ", conn);
        cmd.Parameters.AddWithValue("id", txtId.Text);
        cmd.Parameters.AddWithValue("@Status", statusBox.Text);
        cmd.ExecuteNonQuery();

        conn.Close();

        MessageBox.Show("Updated Successfully", "Successfull",
MessageBoxButtons.OK, MessageBoxIcon.Information);

        txtId.Clear();
        txtName.Text = "";
        Responsible.Text = "";
        CustomerId.Text = "";
        StartDate.Text = "";
        EndDate.Text = "";
        LaborCount.Text = "";
        statusBox.Text = "";
    }

    private void button4_Click(object sender, EventArgs e)
    {
        View_Projects vp1 = new View_Projects();
        this.Hide();
        vp1.ShowDialog();
        this.Close();
    }
}

```

Employee 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.Tasks;
using System.Windows.Forms;

namespace ProjectManagementSystem
{
    public partial class Employees : Form
    {
        public Employees()
        {
            InitializeComponent();
        }

        private void Employees_Load(object sender, EventArgs e)
        {
            SqlConnection conn = new SqlConnection("Data
Source=localhost\\SQLEXPRESS;Initial Catalog=PMSDB;Integrated Security=True");
```

```

        conn.Open();
        SqlCommand cmd1 = new SqlCommand("Select Count(EmployeeId) From
EmpTemp", conn);
        int empCount = (int)cmd1.ExecuteScalar();
        total.Text = empCount.ToString();

        conn.Close();
    }

    private void button1_Click(object sender, EventArgs e)
    {
        Add_Employee ae1 = new Add_Employee();
        ae1.ShowDialog();
    }

    private void button3_Click(object sender, EventArgs e)
    {
        Employee_Details ed1 = new Employee_Details();
        ed1.ShowDialog();
    }

    private void button2_Click(object sender, EventArgs e)
    {
        View_Employees ve1 = new View_Employees();
        ve1.ShowDialog();
    }
}

```

=====

Add Employee Form

The screenshot shows a web application window titled "Home" with a sidebar containing navigation buttons: "Projects", "Employee", "Labour", "Resource", and "Progress". The "Employee" button is highlighted. A modal window titled "Add New Employee" is open, displaying a form with the following fields:

- Employee Id:
- Name:
- Position: - Gender: ☐ Male ☒ Female
- Age:
- Salary:

At the bottom of the form are "Save" and "Clear" buttons.

This screenshot shows the same "Add New Employee" form as above, but with a small success message dialog box overlaid. The dialog box has a title bar "Successfull" and an information icon. The message inside reads "Employee Added Successfully". There is an "OK" button at the bottom of the dialog box. The form fields and buttons remain visible in the background.

```

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.Tasks;
using System.Windows.Forms;

namespace ProjectManagementSystem
{
    public partial class Add_Employee : Form
    {
        public Add_Employee()
        {
            InitializeComponent();

            private void Add_Employee_Load(object sender, EventArgs e)
            {

            }

            private void button3_Click(object sender, EventArgs e)
            {
                txtId.Clear();
                txtName.Clear();
                roleBox.Text = "";
                radioButton1.Checked = false;
                radioButton2.Checked = false;
                age.Clear();
                empSalary.Clear();

            }

            private void button1_Click(object sender, EventArgs e)
            {
                SqlConnection conn = new SqlConnection("Data
Source=localhost\\SQLEXPRESS;Initial Catalog=PMSDB;Integrated Security=True");
                conn.Open();
                SqlCommand cmd = new SqlCommand("Insert into EmpTemp values
(@EmployeeId,@EmpName,@Role,@Age,@Gender,@Salary)", conn);
                cmd.Parameters.AddWithValue("@EmployeeId", txtId.Text);
                cmd.Parameters.AddWithValue("@EmpName", txtName.Text);
                cmd.Parameters.AddWithValue("@Role", roleBox.Text);
                cmd.Parameters.AddWithValue("@Age", int.Parse(age.Text));
                if (radioButton1.Checked)
                {
                    cmd.Parameters.AddWithValue("@Gender", "Male");
                }
                if (radioButton2.Checked)
                {
                    cmd.Parameters.AddWithValue("@Gender", "Female");
                }
                cmd.Parameters.AddWithValue("@Salary", int.Parse(empSalary.Text));
                cmd.ExecuteNonQuery();
            }
        }
    }
}

```



```

        conn.Close();

        MessageBox.Show("Employee Added Successfully", "Successfull",
        MessageBoxButtons.OK, MessageBoxIcon.Information);

        txtId.Clear();
        txtName.Clear();
        roleBox.Text = "";
        radioButton1.Checked = false;
        radioButton2.Checked = false;
        age.Clear();
        empSalary.Clear();

        this.Refresh();
    }

    private void txtLabor_TextChanged(object sender, EventArgs e)
    {
    }
}

```

=====

View Employee Form

The screenshot shows a Windows application window titled 'View_Employees'. The form has a light blue header with the title 'Employees'. Below the header is a table with 7 columns: EmployeeId, EmpName, Role, Age, Gender, and Salary. The table contains 10 rows of employee data. The first row (E001) is highlighted in blue. At the bottom of the form, there are two buttons: 'Employee Details' and 'Add Employee'.

EmployeeId	EmpName	Role	Age	Gender	Salary
E001	Harshana	Manager	24	Male	200000
E002	Chameera	Manager	23	Male	200000
E003	Smith	Cleark	25	Male	60000
E004	Lahiru	Engineer	24	Male	200000
E005	Kevin	Surveyor	28	Male	150000
E006	David	Inspector	30	Male	120000
E007	Dimuthu	Architect	34	Male	200000
E008	James	Equipment Operator	30	Male	80000
E009	Cammeron	Engineer	28	Female	150000
E010	Daniel	Architect	30	Female	160000

```
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 ProjectManagementSystem
{
    public partial class View_Employees : Form
    {
        public View_Employees()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            Add_Employee ae1 = new Add_Employee();
            ae1.ShowDialog();
        }
    }
}
```

```

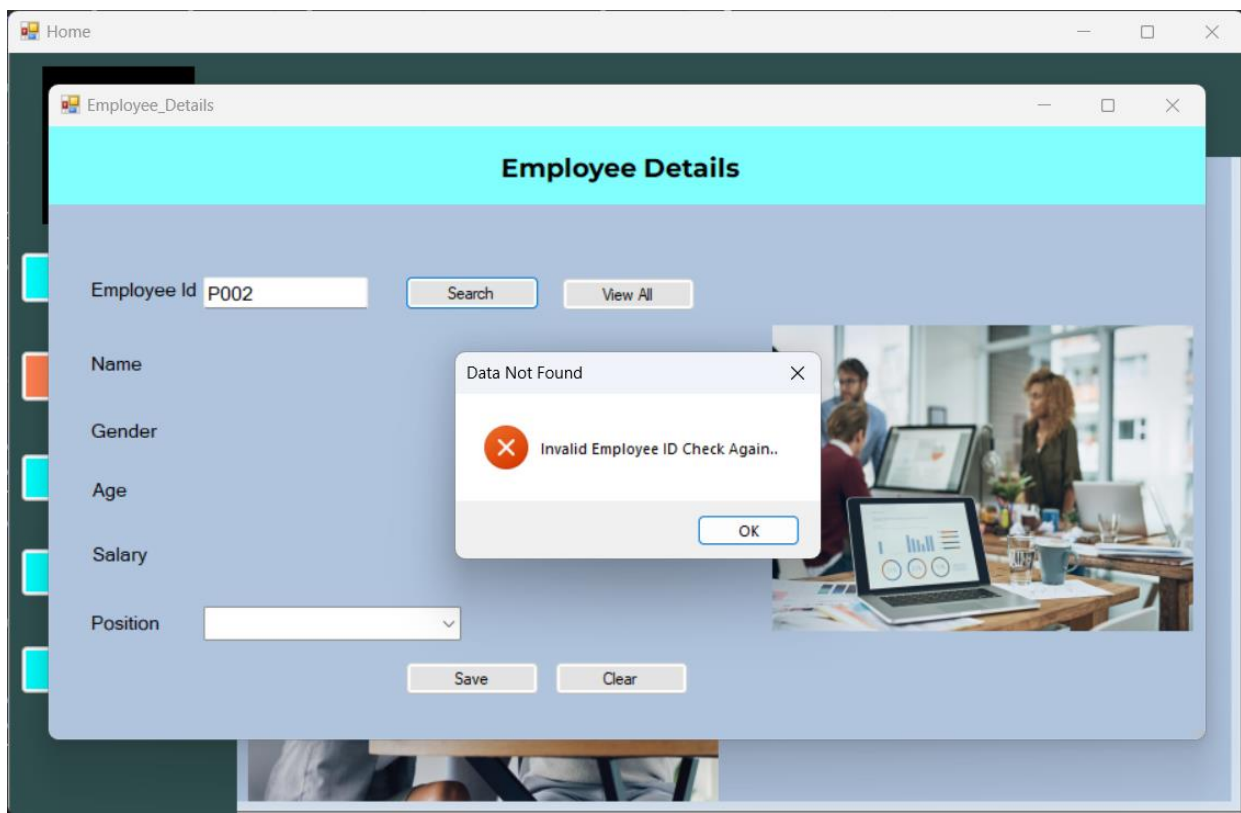
private void button2_Click(object sender, EventArgs e)
{
    Employee_Details ed1 = new Employee_Details();
    ed1.ShowDialog();
}

private void View_Employees_Load(object sender, EventArgs e)
{
    this.sqlDataAdapter1.Fill(this.employeeSet.EmpTemp);
}
}

```

=====

Employee Details Form



Home

Employee_Details

Employee Details

Employee Id

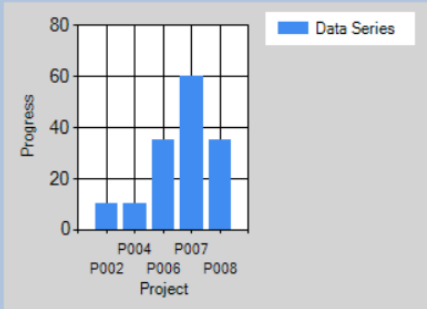
Name **Chameera**

Gender **Male**

Age **23**

Salary **200000**

Position



Project	Progress
P002	10
P004	10
P006	35
P007	60
P008	35

Home

Employee_Details

Employee Details

Employee Id


Name **Daniel**

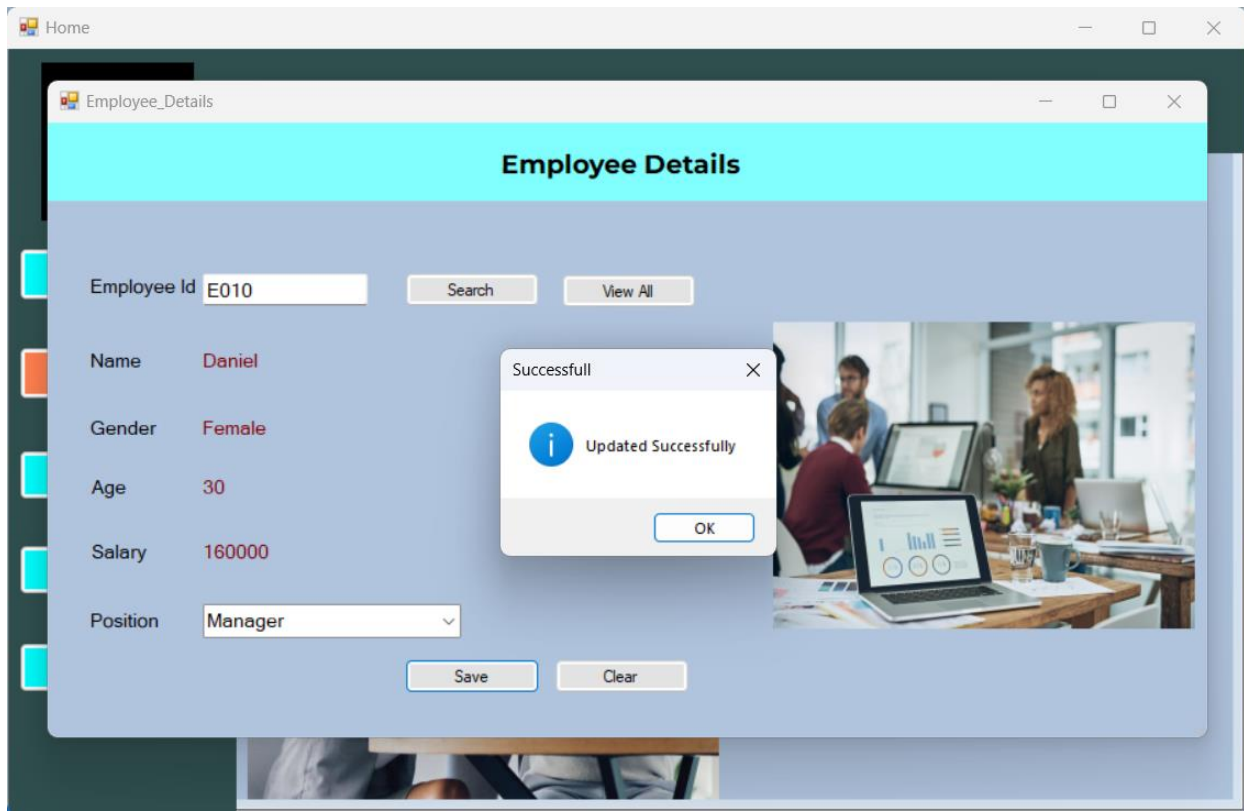
Gender **Female**

Age **30**

Salary **160000**

Position





```

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Data.SqlClient;
using System.Drawing;
using System.Linq;
using System.Runtime.InteropServices.ComTypes;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Windows.Forms.DataVisualization.Charting;
using System.Xml.Linq;

namespace ProjectManagementSystem
{
    public partial class Employee_Details : Form
    {
        public Employee_Details()
        {
            InitializeComponent();
        }

        private void button2_Click(object sender, EventArgs e)
        {
            SqlConnection conn = new SqlConnection("Data
Source=localhost\\SQLEXPRESS;Initial Catalog=PMSDB;Integrated Security=True");

```

```

        conn.Open();
        SqlCommand cmd = new SqlCommand("Select * from EmpTemp where
EmployeeId=@id", conn);
        cmd.Parameters.AddWithValue("id", txtId.Text);
        SqlDataReader reader1;
        reader1 = cmd.ExecuteReader();
        if (reader1.Read())
        {
            empName.Text = reader1["EmpName"].ToString();
            roleBox.Text = reader1["Role"].ToString();
            empAge.Text = reader1["Age"].ToString();
            empGender.Text = reader1["Gender"].ToString();
            Salary.Text = reader1["Salary"].ToString();
        }
        else
        {
            MessageBox.Show("Invalid Employee ID Check Again..", "Data Not
Found", MessageBoxButtons.OK, MessageBoxIcon.Error);
        }
        reader1.Close();
        conn.Close();
        if (roleBox.Text == "Manager")
        {
            pictureBox1.Visible = false;
            // Create a series
            Series series = new Series("Data Series");
            series.ChartType = SeriesChartType.Column;
            chart1.Series.Add(series);

            // Connect to the database
            string connectionString = "Data Source=localhost\\SQLEXPRESS;Initial
Catalog=PMSDB;Integrated Security=True";
            using (SqlConnection connection = new
SqlConnection(connectionString))
            {
                connection.Open();
                SqlCommand cmd1 = new SqlCommand("SELECT ProjectId, Status FROM
Projects Where Responsible=@eId", connection);
                cmd1.Parameters.AddWithValue("eId", txtId.Text);

                // Read data from the database and add data points to the series
                SqlDataReader reader2 = cmd1.ExecuteReader();
                while (reader2.Read())
                {
                    string Id = reader2["ProjectId"].ToString();
                    int value = 0;

                    switch (reader2["Status"].ToString())
                    {
                        case "Planned":
                            value = 10;
                            break;
                        case "Analyzed":
                            value = 35;
                            break;
                        case "Started":

```



```

        value = 60;
        break;
    case "Completed":
        value = 80;
        break;
    case "Closed":
        value = 100;
        break;
    // Handle other statuses as needed
}

// Add data points based on the "Name" column value
series.Points.AddXY(Id, value);

// Label the X-axis directly
chart1.ChartAreas[0].AxisX.Title = "Project";

// Label the Y-axis directly
chart1.ChartAreas[0].AxisY.Title = "Progress";

// Refresh the chart to display the changes
chart1.Refresh();

}

}
else
{
    pictureBox1.Visible = true;
}

}

private void button1_Click(object sender, EventArgs e)
{
    SqlConnection conn = new SqlConnection("Data
Source=localhost\\SQLEXPRESS;Initial Catalog=PMSDB;Integrated Security=True");
    conn.Open();
    SqlCommand cmd = new SqlCommand("update EmpTemp set Role=@Role Where
EmployeeId=@id ", conn);
    cmd.Parameters.AddWithValue("id", txtId.Text);
    cmd.Parameters.AddWithValue("@Role", roleBox.Text);
    cmd.ExecuteNonQuery();

    conn.Close();

    MessageBox.Show("Updated Successfully", "Successfull",
    MessageBoxButtons.OK, MessageBoxIcon.Information);

    txtId.Clear();
    empName.Text = "";
    empAge.Text = "";
    empGender.Text = "";
    roleBox.Text = "";
    Salary.Text = "";
    pictureBox1.Visible = true;
}

```

```

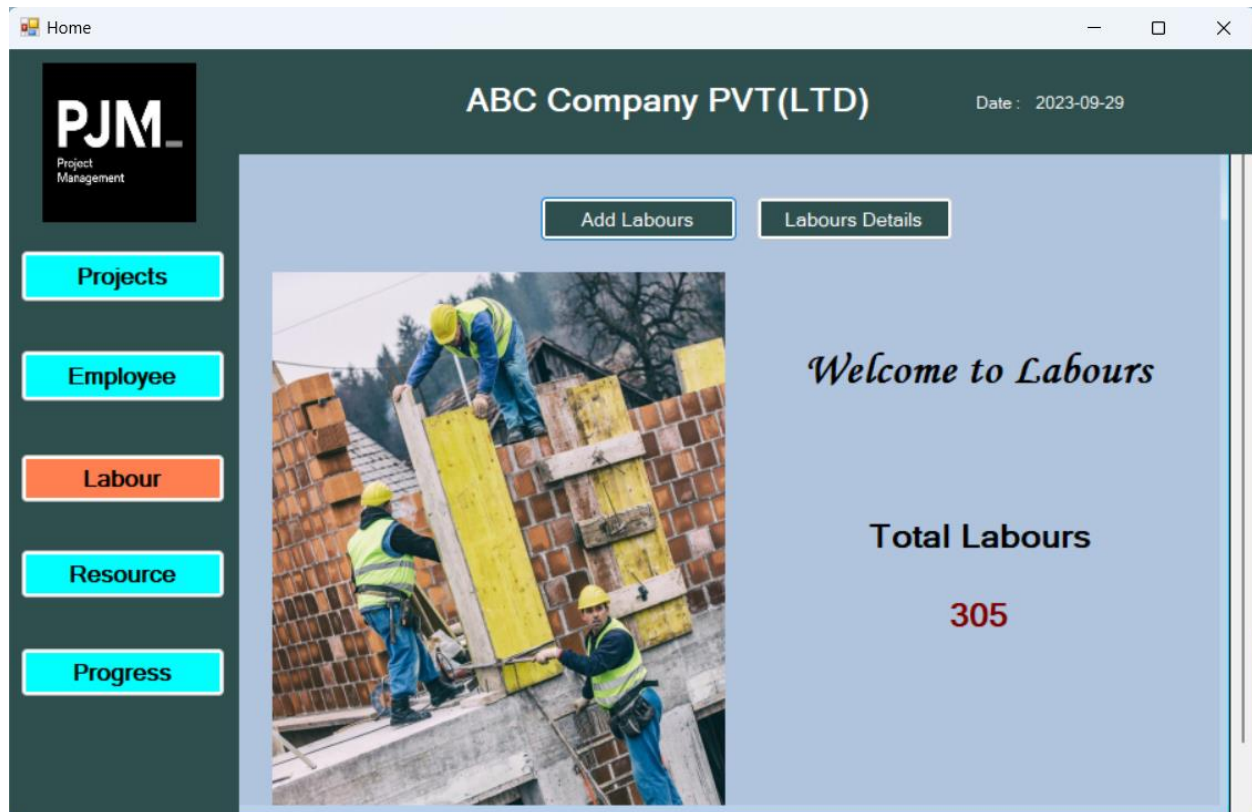
private void button3_Click(object sender, EventArgs e)
{
    txtId.Clear();
    empName.Text = "";
    empAge.Text = "";
    empGender.Text = "";
    roleBox.Text = "";
    Salary.Text = "";
    pictureBox1.Visible = true;
}

private void button4_Click(object sender, EventArgs e)
{
    View_Employees ve1 = new View_Employees();
    ve1.ShowDialog();
}
}

```

=====

Labour 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.Tasks;
using System.Windows.Forms;

namespace ProjectManagementSystem
{
    public partial class Labour : Form
    {
        public Labour()
        {
            InitializeComponent();
        }

        private void Labour_Load(object sender, EventArgs e)
        {
        }
    }
}
```

```

        SqlConnection conn = new SqlConnection("Data
Source=localhost\\SQLEXPRESS;Initial Catalog=PMSDB;Integrated Security=True");
        conn.Open();
        SqlCommand cmd1 = new SqlCommand("Select SUM(Count) From Labours",
conn);
        int lbrCount = (int)cmd1.ExecuteScalar();
        total.Text = lbrCount.ToString();

        conn.Close();
    }

    private void button1_Click(object sender, EventArgs e)
    {
        Add_Labours ae1 = new Add_Labours();
        ae1.ShowDialog();
    }

    private void button2_Click(object sender, EventArgs e)
    {
        Labour_Details ld1 = new Labour_Details();
        ld1.ShowDialog();
    }
}

```

=====

Add Labours Form

Home

ABC Company PVT(LTD) Date : 2023-09-29

PJM
Project Management

Projects

Employee

Labour

Resource

Progress

Add Labours


Labour Type Id L001 Labour Type Automobile Workers Search

Labour Count 35

Salary 35000

Adding Count 5

Add Clear



Home

ABC Company PVT(LTD) Date : 2023-09-29

PJM
Project Management

Projects

Employee

Labour

Resource

Progress

Add Labours

Labour Type Id L001 Labour Type Automobile Workers Search

Labour Count 35

Salary 35000


Adding Count 5

Add Clear

Successfull

Labours Added Successfully

OK



```

using System;
using System.Collections.Generic;
using System.ComponentModel;
using System.Data;
using System.Data.SqlClient;
using System.Drawing;
using System.Linq;
using System.Runtime.InteropServices.ComTypes;
using System.Text;
using System.Threading.Tasks;
using System.Windows.Forms;
using System.Xml.Linq;

namespace ProjectManagementSystem
{
    public partial class Add_Labours : Form
    {
        public Add_Labours()
        {
            InitializeComponent();
        }

        private void Add_Labours_Load(object sender, EventArgs e)
        {
            if(txtId.Text == "")
            {
                textCountBox.Visible = false;
            }
            else
            {
                textCountBox.Visible = true;
            }

            SqlConnection conn = new SqlConnection("Data
Source=localhost\\SQLEXPRESS;Initial Catalog=PMSDB;Integrated Security=True");
            conn.Open();
            SqlCommand cmd1 = new SqlCommand("Select LabourType From Labours",
conn);
            List<string> LabourTypes = new List<string>();

            using (SqlDataReader reader1 = cmd1.ExecuteReader())
            {
                while (reader1.Read())
                {
                    string labourType = reader1["LabourType"].ToString();
                    LabourTypes.Add(labourType);
                }
            }

            string[] labourTypeArray = LabourTypes.ToArray();

            comboBox1.Items.AddRange(labourTypeArray);

            conn.Close();
        }

        private void button3_Click(object sender, EventArgs e)
        {

```



```

        txtId.Text = "";
        txtCount.Text = "";
        txtSalary.Text = "";
        comboBox1.Text = "";
        textCountBox.Clear();
    }

    private void button1_Click(object sender, EventArgs e)
    {
        SqlConnection conn = new SqlConnection("Data
Source=localhost\\SQLEXPRESS;Initial Catalog=PMSDB;Integrated Security=True");
        conn.Open();
        SqlCommand cmd = new SqlCommand("Select * from Labours where
LabourType=@type", conn);
        cmd.Parameters.AddWithValue("type", comboBox1.Text);
        SqlDataReader reader1;
        reader1 = cmd.ExecuteReader();
        if (reader1.Read())
        {
            txtId.Text = reader1["LabourTypeId"].ToString();
            txtSalary.Text = reader1["Salary"].ToString();
            txtCount.Text = reader1["Count"].ToString();
        }
        else
        {
            MessageBox.Show("Invalid Labour Check Again..", "Data Not Found",
MessageBoxButtons.OK, MessageBoxIcon.Error);
        }

        if (txtId.Text == String.Empty)
        {
            textCountBox.Visible = false;
        }
        else
        {
            textCountBox.Visible = true;
        }
    }

    private void button2_Click(object sender, EventArgs e)
    {
        SqlConnection conn = new SqlConnection("Data
Source=localhost\\SQLEXPRESS;Initial Catalog=PMSDB;Integrated Security=True");
        conn.Open();
        SqlCommand cmd = new SqlCommand("UPDATE Labours SET Count=@Count WHERE
LabourTypeId=@id", conn);
        cmd.Parameters.AddWithValue("@id", txtId.Text);
        cmd.Parameters.AddWithValue("@Count", int.Parse(txtCount.Text) +
int.Parse(textCountBox.Text));
        cmd.ExecuteNonQuery();

        conn.Close();

        MessageBox.Show("Labours Added Successfully", "Successfull",
MessageBoxButtons.OK, MessageBoxIcon.Information);

        txtId.Text = "";
        txtCount.Text = "";
    }

```

```

        txtSalary.Text = "";
        comboBox1.Text = "";
        textCountBox.Clear();
    }
}

```

Labours Details Form

The screenshot shows a web application interface for 'PJM Project Management'. The 'Labour' section is active, displaying a table of labour details. The table has the following data:

LabourTypeid	LabourType	Salary	Count
L001	Automobile Workers	35000	40
L002	Service Station Workers	30000	60
L003	Construction Site Wor...	35000	100
L004	Drivers	40000	30
L005	Machine Operators	35000	30
L006	Security Officers	50000	30
L007	Cleaning Service	30000	20

Below the table is an 'Add Labours' button. The sidebar on the left contains buttons for 'Projects', 'Employee', 'Labour' (highlighted), 'Resource', and 'Progress'. The top right corner shows the date '2023-09-29'.

```

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 ProjectManagementSystem
{
    public partial class Labour_Details : Form

```

```

{
    public Labour_Details()
    {
        InitializeComponent();
    }

    private void button1_Click(object sender, EventArgs e)
    {
        Add_Labours al1 = new Add_Labours();
        al1.ShowDialog();
    }

    private void Labour_Details_Load(object sender, EventArgs e)
    {
        this.sqlDataAdapter1.Fill(this.laboursSet1.Labours);
    }

    private void label1_Click(object sender, EventArgs e)
    {
    }
}
}

```

=====

Resource 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.Tasks;
using System.Windows.Forms;

namespace ProjectManagementSystem
{
    public partial class Resources : Form
    {
        public Resources()
        {
            InitializeComponent();

            private void button1_Click(object sender, EventArgs e)
            {
                Add_Resources ar1 = new Add_Resources();
                ar1.ShowDialog();
            }

            private void Resources_Load(object sender, EventArgs e)
            {
                SqlConnection conn = new SqlConnection("Data
Source=localhost\\SQLEXPRESS;Initial Catalog=PMSDB;Integrated Security=True");
                conn.Open();
                SqlCommand cmd1 = new SqlCommand("Select SUM(Qty) From Resources",
conn);
                int rsCount = (int)cmd1.ExecuteScalar();
                total.Text = rsCount.ToString();

                conn.Close();
            }

            private void button2_Click(object sender, EventArgs e)
            {
                Resources_Details rd1 = new Resources_Details();
                rd1.ShowDialog();
            }
        }
    }
}

```

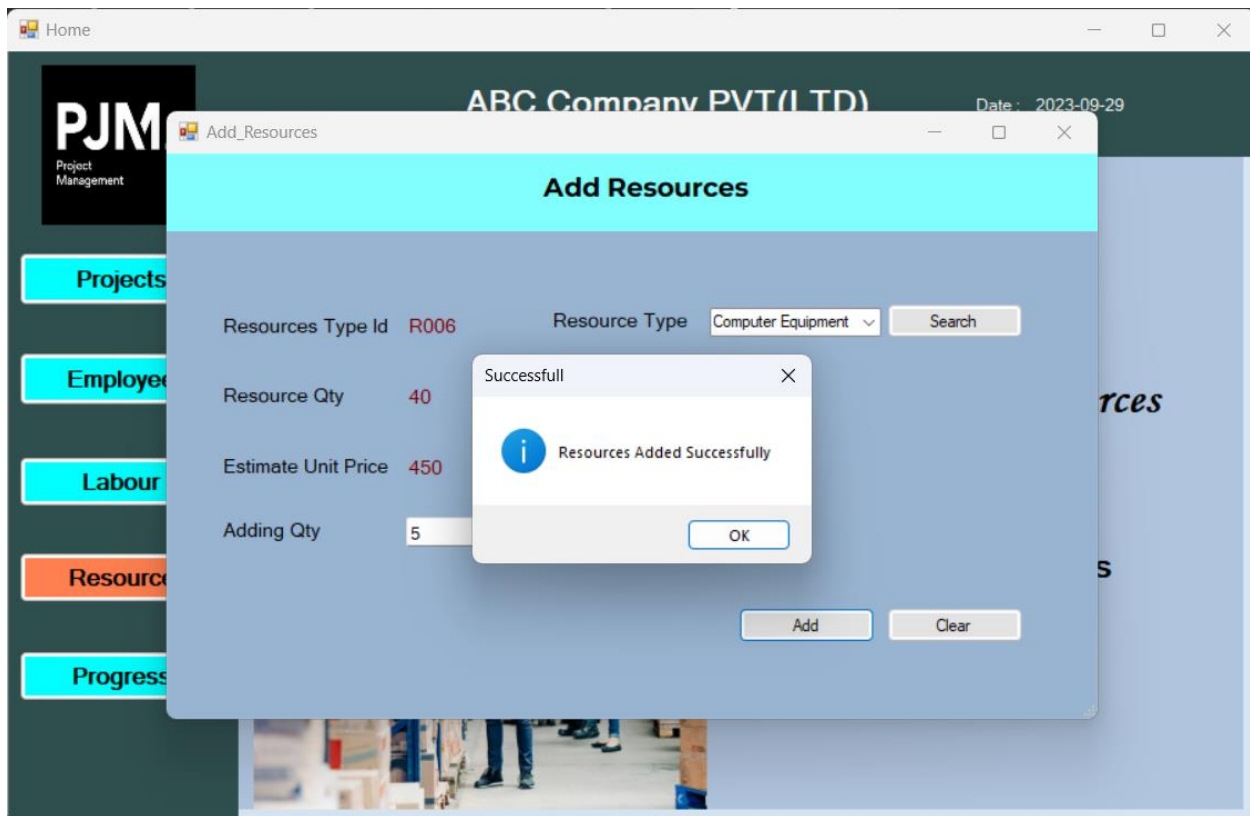
=====

Add Resources Form

The screenshot shows a web application interface for 'ABC Company PVT (LTD)' with a date of '2023-09-29'. A modal window titled 'Add Resources' is open, displaying the following form fields:

- Resources Type Id:** R006
- Resource Type:** Computer Equipment (dropdown menu)
- Resource Qty:** 40
- Estimate Unit Price:** 450
- Adding Qty:** 5 (input field)

At the bottom of the modal, there are two buttons: 'Add' and 'Clear'.



```

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.Tasks;
using System.Windows.Forms;

namespace ProjectManagementSystem
{
    public partial class Add_Resources : Form
    {
        public Add_Resources()
        {
            InitializeComponent();
        }

        private void Add_Resources_Load(object sender, EventArgs e)
        {
            if (txtId.Text == "")
            {
                textCountBox.Visible = false;
            }
            else

```

```

        {
            textCountBox.Visible = true;
        }

        SqlConnection conn = new SqlConnection("Data
Source=localhost\\SQLEXPRESS;Initial Catalog=PMSDB;Integrated Security=True");
        conn.Open();
        SqlCommand cmd1 = new SqlCommand("Select ResourceType From
Resources", conn);
        List<string> ResourceTypes = new List<string>();

        using (SqlDataReader reader1 = cmd1.ExecuteReader())
        {
            while (reader1.Read())
            {
                string ResourceType = reader1["ResourceTypeName"].ToString();
                ResourceTypes.Add(ResourceType);
            }
        }

        string[] ResourceTypeArray = ResourceTypes.ToArray();

        comboBox1.Items.AddRange(ResourceTypeArray);

        conn.Close();
    }

    private void button1_Click(object sender, EventArgs e)
    {
        SqlConnection conn = new SqlConnection("Data
Source=localhost\\SQLEXPRESS;Initial Catalog=PMSDB;Integrated Security=True");
        conn.Open();
        SqlCommand cmd = new SqlCommand("Select * from Resources where
ResourceTypeName=@type", conn);
        cmd.Parameters.AddWithValue("type", comboBox1.Text);
        SqlDataReader reader1;
        reader1 = cmd.ExecuteReader();
        if (reader1.Read())
        {
            txtId.Text = reader1["ResourceTypeId"].ToString();
            txtPrice.Text = reader1["UnitPrice"].ToString();
            txtCount.Text = reader1["Qty"].ToString();
        }
        else
        {
            MessageBox.Show("Invalid Resources Check Again..", "Data Not Found",
MessageBoxButtons.OK, MessageBoxIcon.Error);
        }

        if (txtId.Text == String.Empty)
        {
            textCountBox.Visible = false;
        }
        else
        {
            textCountBox.Visible = true;
        }
    }
}

```

```

private void button2_Click(object sender, EventArgs e)
{
    SqlConnection conn = new SqlConnection("Data
Source=localhost\\SQLEXPRESS;Initial Catalog=PMSDB;Integrated Security=True");
    conn.Open();
    SqlCommand cmd = new SqlCommand("UPDATE Resources SET Qty=@Qty WHERE
ResourceTypeId=@id", conn);
    cmd.Parameters.AddWithValue("@id", txtId.Text);
    cmd.Parameters.AddWithValue("@Qty", int.Parse(txtCount.Text) +
int.Parse(textCountBox.Text));
    cmd.ExecuteNonQuery();

    conn.Close();

    MessageBox.Show("Labours Added Successfully", "Successfull",
MessageBoxButtons.OK, MessageBoxIcon.Information);

    txtId.Text = "";
    txtCount.Text = "";
    txtPrice.Text = "";
    comboBox1.Text = "";
    textCountBox.Clear();
}

private void button3_Click(object sender, EventArgs e)
{
    txtId.Text = "";
    txtCount.Text = "";
    txtPrice.Text = "";
    comboBox1.Text = "";
    textCountBox.Clear();
}
}
}

```

=====

Resources Details Form

Resource Type Id	Resource Type	Qty	Estimate Unit Price
R001	Flow Racks	90	400
R002	Hand Trucks	60	500
R003	Lifts	40	600
R004	Paper Goods	30	200
R005	Light Bulbs	45	400
R006	Computer Equipment	40	450

Add Resources

```
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;

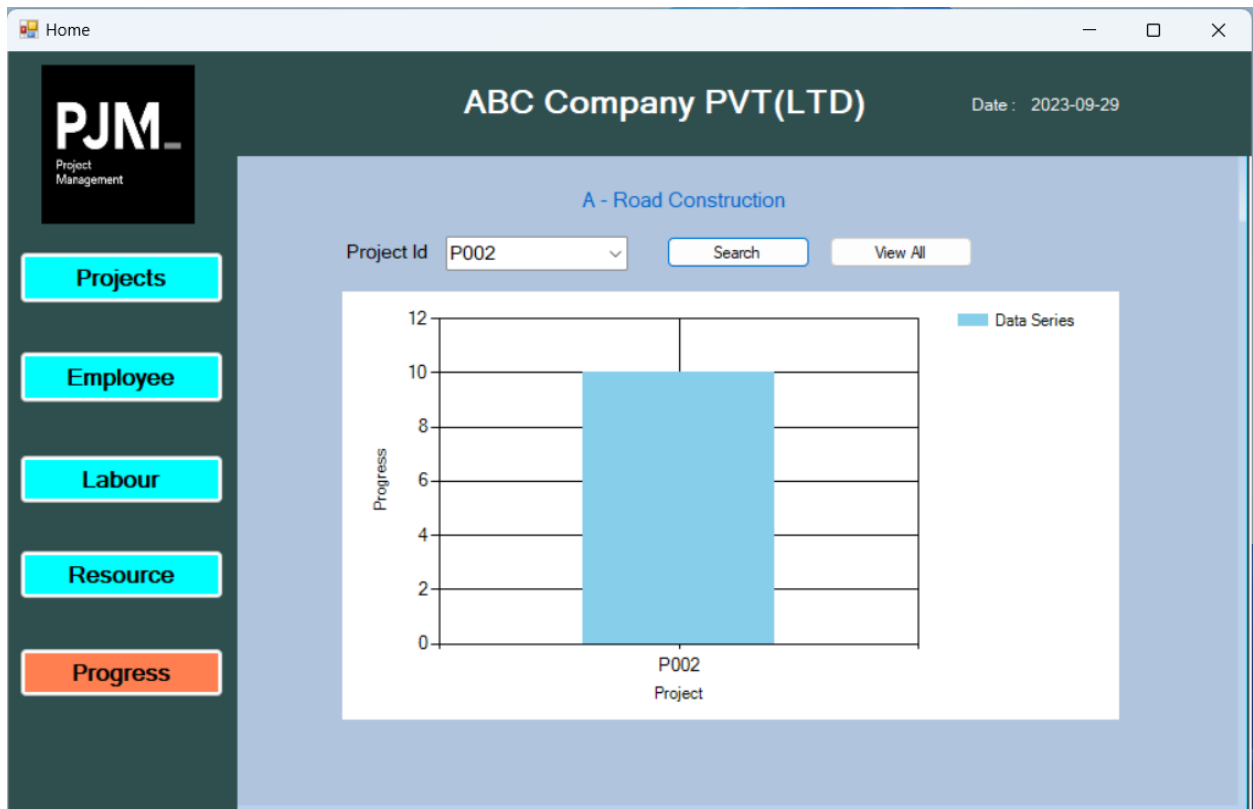
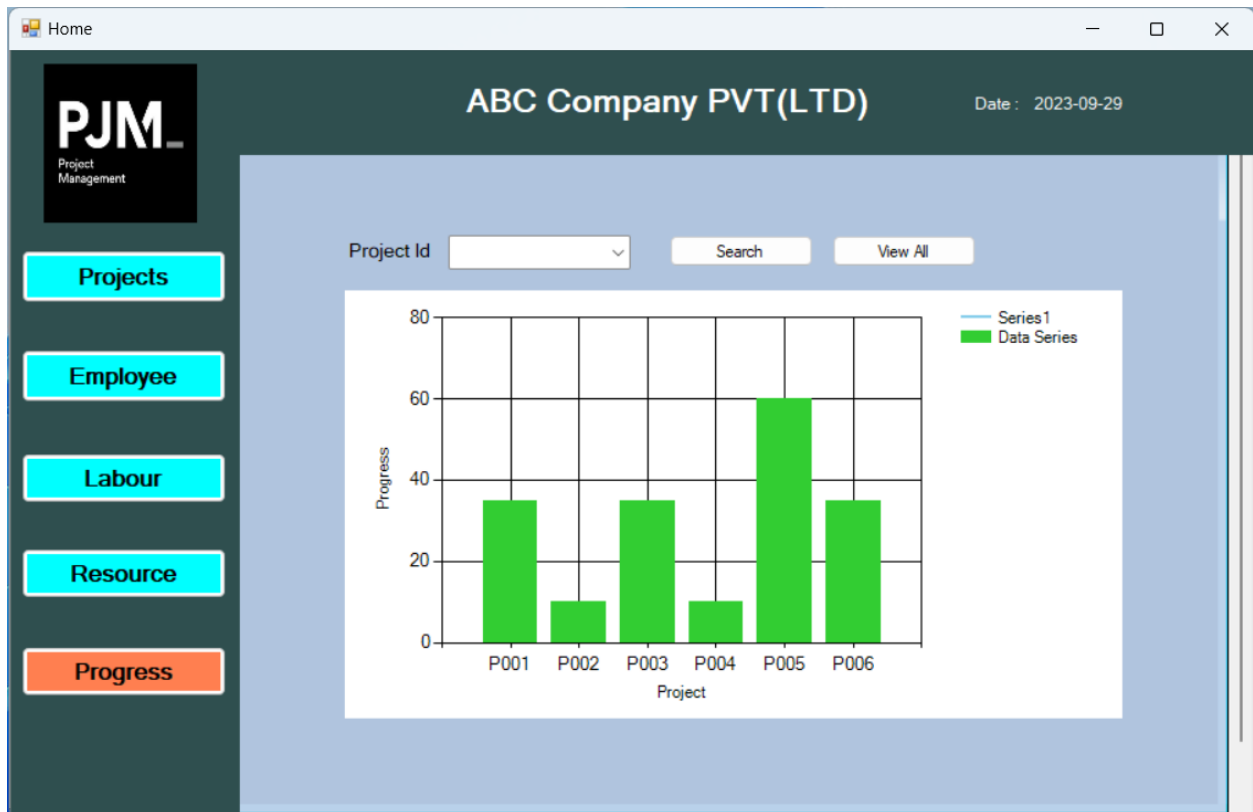
namespace ProjectManagementSystem
{
    public partial class Resources_Details : Form
    {
        public Resources_Details()
        {
            InitializeComponent();
        }

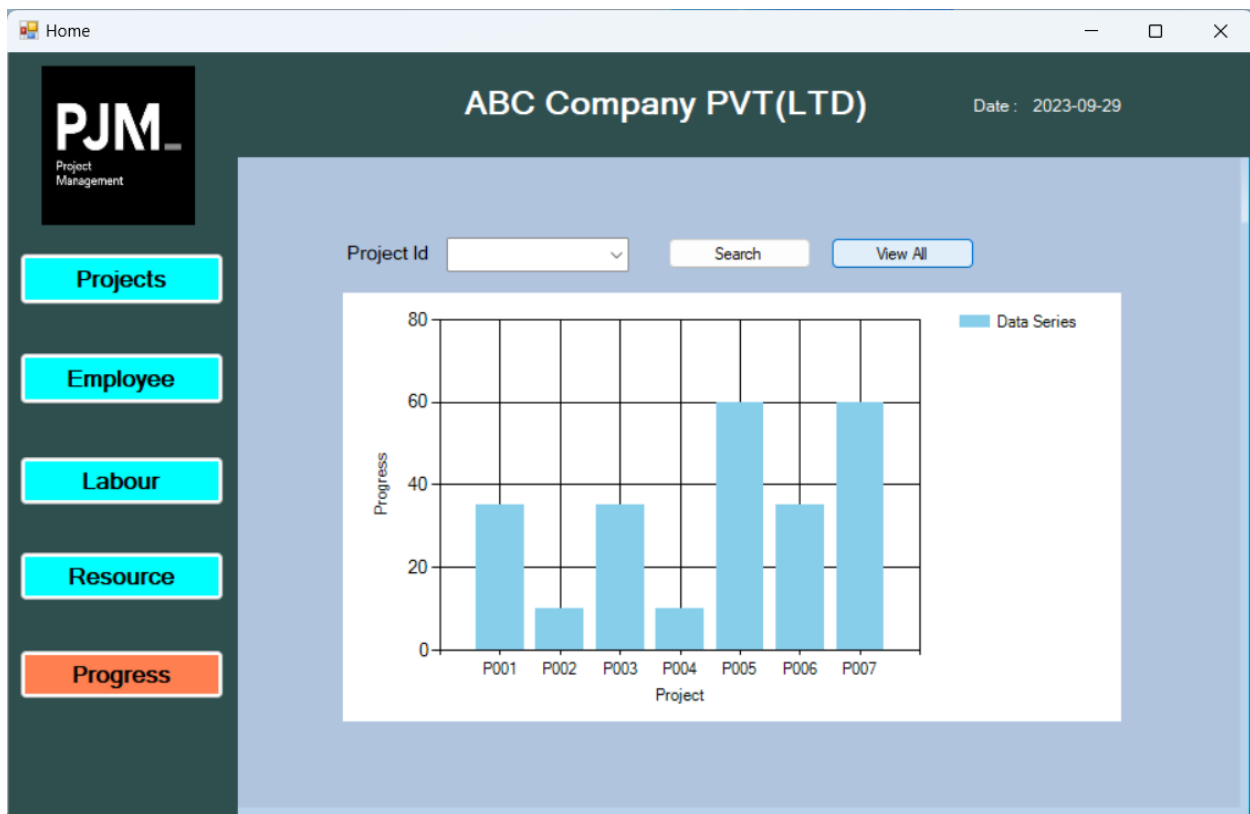
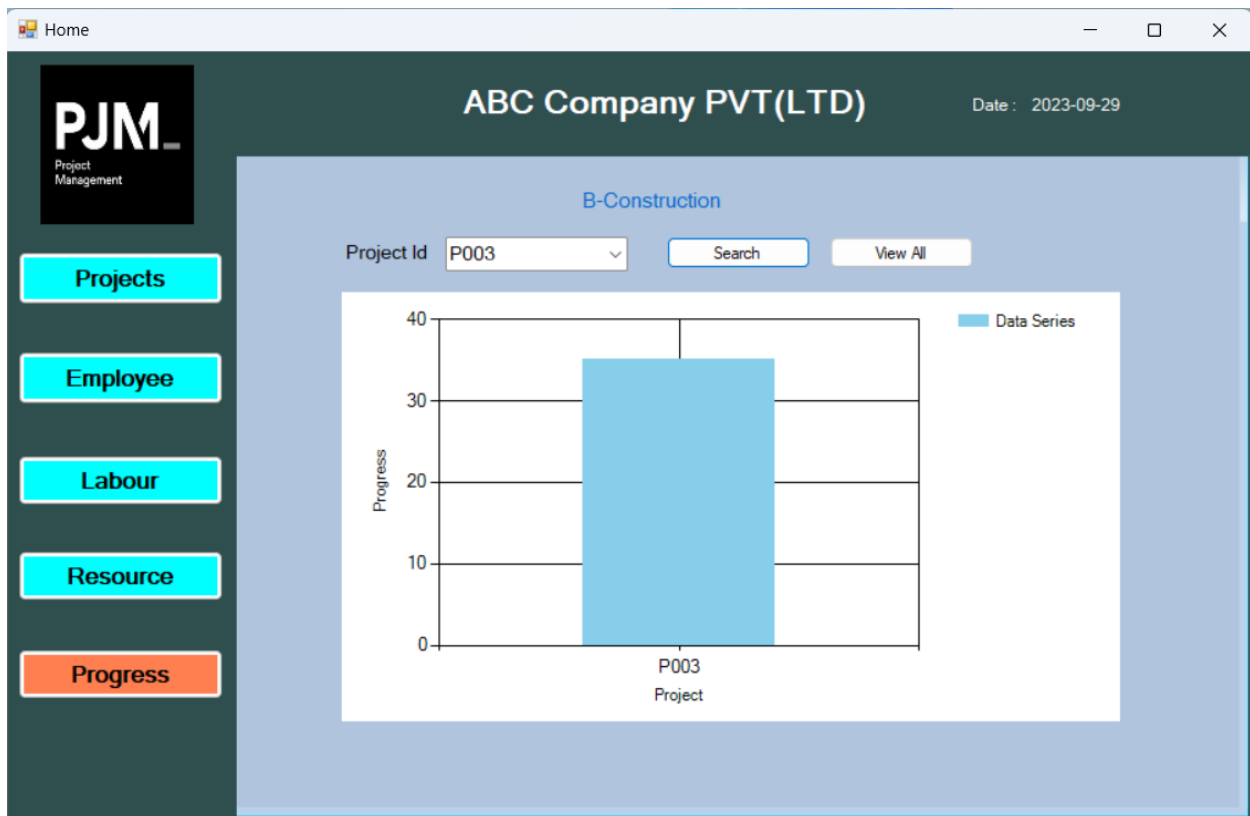
        private void button1_Click(object sender, EventArgs e)
        {
            Add_Resources ar1 = new Add_Resources();
        }
    }
}
```

```
        ar1.ShowDialog();
    }
    private void Resources_Details_Load(object sender, EventArgs e)
    {
        this.sqlDataAdapter1.Fill(this.resourceSet1.Resources);
    }
}
```

=====

Progress 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.Tasks;
using System.Windows.Forms;
using System.Windows.Forms.DataVisualization.Charting;
using System.Xml.Linq;
using static System.Windows.Forms.AxHost;
using static System.Windows.Forms.VisualStyles.VisualStyleElement;

namespace ProjectManagementSystem
{
    public partial class Progress : Form
    {
        public Progress()
        {
            InitializeComponent();

            private void button1_Click(object sender, EventArgs e)
            {
                Projects p1 = new Projects();
                this.Hide();
                p1.ShowDialog();
                this.Close();
            }

            private void Progress_Load(object sender, EventArgs e)
            {
                // Create a series
                Series series = new Series("Data Series");
                series.ChartType = SeriesChartType.Column;
                chart1.Series.Add(series);

                // Connect to the database
                string connectionString = "Data Source=localhost\\SQLEXPRESS;Initial
Catalog=PMSDB;Integrated Security=True";
                using (SqlConnection connection = new SqlConnection(connectionString))
                {
                    connection.Open();
                    SqlCommand cmd = new SqlCommand("SELECT ProjectId, Status FROM
Projects", connection);

                    // Read data from the database and add data points to the series
                    SqlDataReader reader1 = cmd.ExecuteReader();
                    while (reader1.Read())
                    {
                        string Id = reader1["ProjectId"].ToString();
                        int value = 0;

                        switch (reader1["Status"].ToString())
                        {

```

```

        case "Planned":
            value = 10;
            break;
        case "Analyzed":
            value = 35;
            break;
        case "Started":
            value = 60;
            break;
        case "Completed":
            value = 80;
            break;
        case "Closed":
            value = 100;
            break;
        // Handle other statuses as needed
    }

    // Add data points based on the "Name" column value
    series.Points.AddXY(Id, value);

    // Label the X-axis directly
    chart1.ChartAreas[0].AxisX.Title = "Project";

    // Label the Y-axis directly
    chart1.ChartAreas[0].AxisY.Title = "Progress";

    // Refresh the chart to display the changes
    chart1.Refresh();
}
reader1.Close();

}

SqlConnection conn = new SqlConnection(connectionString);
conn.Open();
SqlCommand cmd1 = new SqlCommand("Select ProjectId From Projects",
conn);
List<string> ProjIds = new List<string>();

using (SqlDataReader reader1 = cmd1.ExecuteReader())
{
    while (reader1.Read())
    {
        string projId = reader1["ProjectId"].ToString(); // Assuming
ProjectId is a string
        ProjIds.Add(projId);
    }
}

// Convert the list to an array if needed
string[] empIdsArray = ProjIds.ToArray();

// Populate a ListBox or another control with the array
comboBox1.Items.AddRange(empIdsArray);

```

```

    }

    private void button2_Click(object sender, EventArgs e)
    {
        Series series = new Series("Data Series");
        series.ChartType = SeriesChartType.Column;
        chart1.Series.Clear();
        chart1.Series.Add(series);

        SqlConnection conn = new SqlConnection("Data
Source=localhost\\SQLEXPRESS;Initial Catalog=PMSDB;Integrated Security=True");
        conn.Open();
        SqlCommand cmd = new SqlCommand("Select ProjectId,Name,Status from
Projects where ProjectId=@id", conn);
        cmd.Parameters.AddWithValue("id", comboBox1.Text);

        SqlDataReader reader1 = cmd.ExecuteReader();

        while (reader1.Read())
        {
            string Id = reader1["ProjectId"].ToString();
            ProjName.Text = reader1["Name"].ToString();

            int value = 0;

            switch (reader1["Status"].ToString())
            {
                case "Planned":
                    value = 10;
                    break;
                case "Analyzed":
                    value = 35;
                    break;
                case "Started":
                    value = 60;
                    break;
                case "Completed":
                    value = 80;
                    break;
                case "Closed":
                    value = 100;
                    break;
                // Handle other statuses as needed
            }

            // Add data points based on the "Name" column value
            series.Points.AddXY(Id, value);

            // Label the X-axis directly
            chart1.ChartAreas[0].AxisX.Title = "Project";

            // Label the Y-axis directly
            chart1.ChartAreas[0].AxisY.Title = "Progress";

            // Refresh the chart to display the changes
            chart1.Refresh();
        }
    }

```

```

        reader1.Close();
    }

    private void button1_Click_1(object sender, EventArgs e)
    {
        comboBox1.Text = "";
        ProjName.Text = " ";
        chart1.Series.Clear();
        Series series = new Series("Data Series");
        series.ChartType = SeriesChartType.Column;
        chart1.Series.Add(series);

        // Connect to the database
        string connectionString = "Data Source=localhost\\SQLEXPRESS;Initial
Catalog=PMSDB;Integrated Security=True";
        using (SqlConnection connection = new SqlConnection(connectionString))
        {
            connection.Open();
            SqlCommand cmd = new SqlCommand("SELECT ProjectId, Status FROM
Projects", connection);

            // Read data from the database and add data points to the series
            SqlDataReader reader1 = cmd.ExecuteReader();
            while (reader1.Read())
            {
                string Id = reader1["ProjectId"].ToString();
                int value = 0;

                switch (reader1["Status"].ToString())
                {
                    case "Planned":
                        value = 10;
                        break;
                    case "Analyzed":
                        value = 35;
                        break;
                    case "Started":
                        value = 60;
                        break;
                    case "Completed":
                        value = 80;
                        break;
                    case "Closed":
                        value = 100;
                        break;
                    // Handle other statuses as needed
                }

                // Add data points based on the "Name" column value
                series.Points.AddXY(Id, value);

                // Label the X-axis directly
                chart1.ChartAreas[0].AxisX.Title = "Project";

                // Label the Y-axis directly
                chart1.ChartAreas[0].AxisY.Title = "Progress";

                // Refresh the chart to display the changes
            }
        }
    }

```



```

        chart1.Refresh();
    }
    reader1.Close();
}
}
}
}
}

```

===== Screenshots & Code implementation end ... =====

[Demo video of our project](#)



[Click me](#)

<https://drive.google.com/file/d/1Bty0FCPX91jddkMx1wVGunjNbm2dikQo/view?usp=sharing>