

**Janardhan Bhagat Shikshan Prasarak Sanstha’s**

**CHANGU KANA THAKUR ARTS, COMMERCE AND SCIENCE**

**COLLEGE**

**NEW PANVEL(Autonomous)**

**PROJECT ON**

**School Management System**

**DEVELOPED BY**

**Mr. Anuj Rajkumar Prajapati**

**UNDER THE GUIDANCE OF**

**Mr. Sagar Vyavahare**

**ACADEMIC YEAR**

### **2024-2025**

**Department of Computer Science**

## CERTIFICATE

**This is to certified that the project entitled**

**“School Management System Website”**

Is successfully completed by **Mr. Anuj Rajkumar Prajapati,** Roll No: 80, Examination No: **CS24677** under the guidance of **Mr. Sagar Vyavahare**, during the academic period of 16st July 2024 to 29th sept 2024 as per the syllabus, fulfilment for the completion of the BSc degree in the Computer Science. It is also to certify that this is original work of the candidate done during academic year 2024-2025.

**Place:** Panvel

**Date:** 10/10/2024

**Internal Examiner Principal**

**External Examiner Head of Department**

# ACKNOWLEDGEMENT

It is indeed a matter of great pleasure and proud privilege to be able to present this project on “**School Management System**”.

I would also like to express my deep regards and the gratitude towards the principal **Prof. (Dr.) S.K Patil.**

I respect and thank Head of the department **Prof. Mrs. Pratibha Jadhav**, for providing me an opportunity to do the project work and giving me all the support and guidance. Also, I would like to tender our sincere thanks to all the teachers for their co-operation.

The completion of the project work is a milestone in student life and it execution is inevitable in the hands of guide. I am highly indebted the projects guide **Mr. Sagar Vyavahare** for her invaluable guidance and appreciation for giving form and substance to this report. It is due to her enduring efforts; patience and enthusiasm, which has given a sense of direction and purposefulness to this project and ultimately made it a Success.

I would Wish to thank the non - teaching staff and my friends who have helped me.

Really it is highly impossible to repay the dept of all the people who have me all the time in one way or the other directly or indirectly helped me for performing the project.

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**INTRODUCTION**

1. **Introduction:**

The **School Management System** is an all-in-one solution that simplifies the management of various school operations through two core modules: the **Admin Module** and the **Teacher Module**. The **Admin Module** enables administrators to efficiently manage tasks such as adding and organizing classes, assigning class fees, and introducing new subjects while linking them to the appropriate teachers. Admins can also manage teacher profiles, track their attendance, and allocate subjects to them. Additionally, the admin can handle student registrations, monitor student attendance, enter and track student marks, and oversee school expenses, providing a clear overview of school performance.

On the other hand, the **Teacher Module** empowers teachers with a dedicated dashboard for managing daily academic activities. Teachers can mark student attendance, view detailed attendance reports, and access student marks for better academic evaluation. This module also allows teachers to track student progress and provide tailored feedback, enhancing student performance.It enhances decision-making for school administrators, reduces paperwork, and facilitates better communication between teachers. The system often includes secure login access for each user type, ensuring data privacy and smooth interactions.

Furthermore, the system promotes efficient communication between teachers, students, and parents by facilitating transparent progress reporting and enabling swift information exchange. With its streamlined functionality, the system is designed to enhance academic management, improve administrative control, and support the overall growth of the educational institution.

## Existing System:

The existing system for managing school operations is built on established practices that have served educational institutions over the years.Current solutions often include spreadsheets and word processors that allow administrators and teachers to manage data effectively. While these tools are basic, they provide a level of functionality that has been familiar and accessible for staff.The existing system employs manual processes for various administrative tasks, such as adding students, tracking attendance, and recording grades. This approach allows for personalized attention to each task and helps maintain a hands-on involvement in school operations.Overall, the existing system has its strengths in providing basic functionality and facilitating the essential operations of the school.

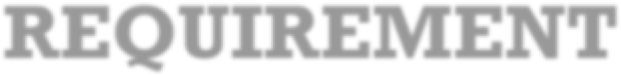
## Proposed System:

The proposed School Management System aims to transform the way educational institutions manage their operations by integrating various functionalities into a unified platform. This system will utilize advanced technology to streamline administrative tasks, enhance communication between teachers and parents, and improve overall efficiency within the school environment.The proposed system will operate on modern server infrastructure, ensuring reliable performance and scalability. It will be developed using a web-based application framework, allowing access from any device with internet connectivity. This flexibility will enable staff and parents to engage with the system seamlessly.

Overall, the proposed School Management System will significantly enhance operational efficiency, improve communication, and provide valuable insights into student performance. By adopting this new system, educational institutions can foster a more collaborative and supportive learning environment that ultimately benefits students and their academic journeys.

## Working of the Online Learning System

1. **User Login:**
   1. Users (Admins, Teachers, Parents) log into the system using secure credentials.
2. **Dashboard Access:**
   1. After logging in, users are directed to a personalized dashboard.
   2. Admins see administrative functions; teachers see classroom and student data; parents see their child's information.
3. **Admin Functions:**
   1. **Class Management:**
      * Admins can add, edit, or delete classes.
      * They can assign teachers to classes and manage class schedules.
   2. **Student Management:**
      * Admins can enroll new students and update student details (name, address, contact information).
   3. **Subject Management:**
      * Admins can add new subjects to the curriculum and link them to respective classes.
   4. **Fee Management:**
      * Admins can set class fees, track payments, and generate fee reports.
   5. **Teacher Management:**
      * Admins can add, modify, or remove teacher profiles.
   6. **Expense Management:**
      * Admins can enter and track school expenses, including miscellaneous charges.
4. **Teacher Functions:**
   1. **Attendance Tracking:**
      * Teachers can mark student attendance daily.
      * Attendance records are automatically updated and stored.
   2. **Mark Entry:**
      * Teachers can enter students' grades and marks for assignments and exams.
      * They can generate reports on student performance.
5. **Forgot Password:**
   1. The user is prompted to enter their registered email address.The system checks if the email exists in the database.After clicking the link, the user is directed to the "Reset Password" page to enter and confirm their new password.
6. **Logout:**
   1. Users can log out securely at any time, ensuring data privacy and security.



# REQUIREMENT SPECIFICATION

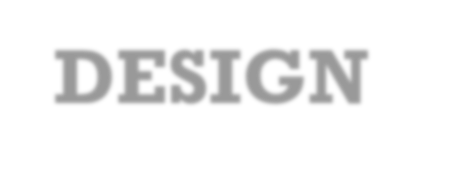
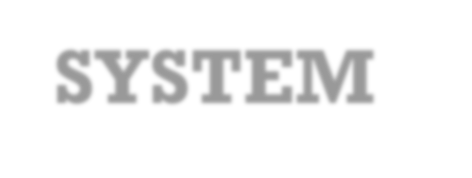
1. **Requirement Specification:**

## Software Requirements:

* + 1. **Languages:** C#,ASP.NET,Html,Css,Javascript,MySql.
    2. **Tools:**
       1. Visual Studio 2022
       2. SQL Server Management Studio 2022
    3. **Operating System:** Windows or Ubuntu

## Hardware Requirement:

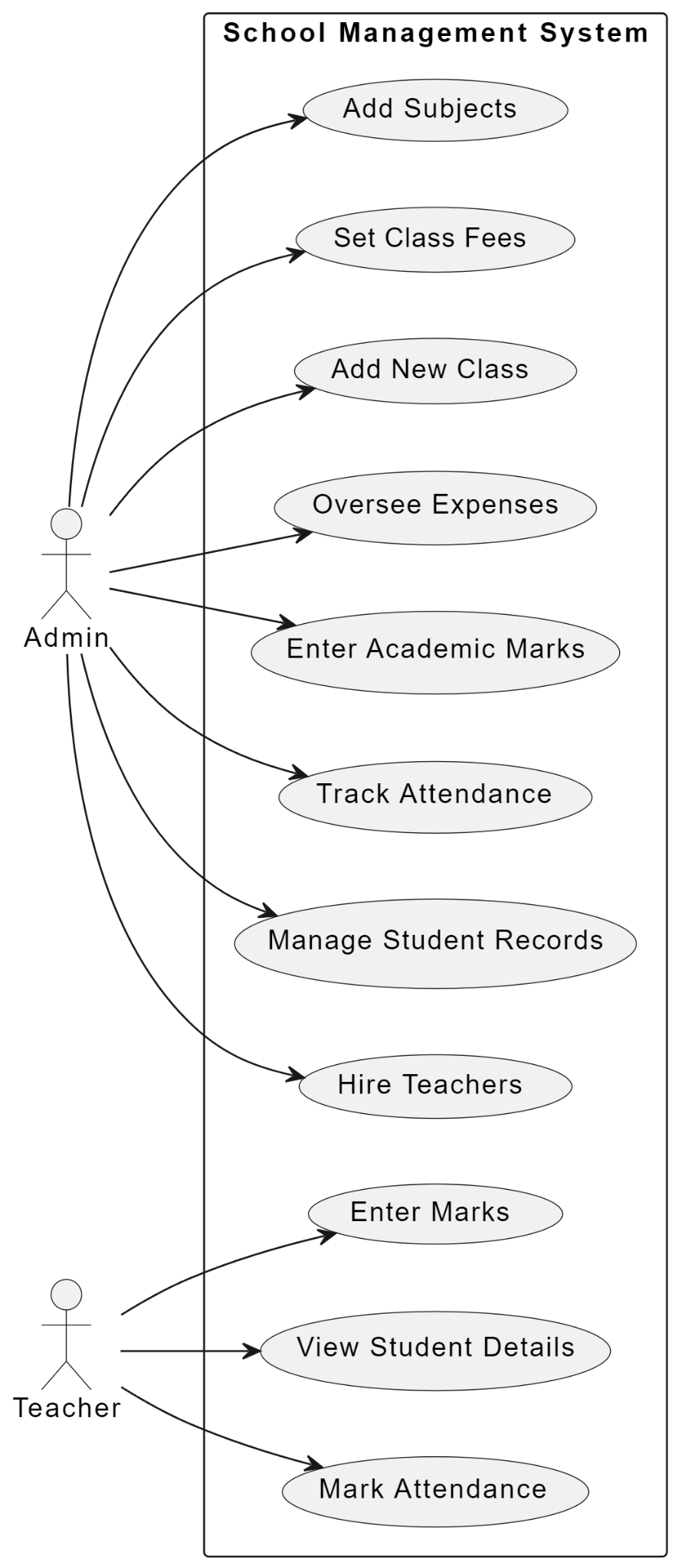
* + 1. **Processor:** Intel Core i5 and above
    2. **Storage:** 50 MB
    3. **Ram: 4** GB
    4. **Laptop with basic hardware**
    5. **Stable internet connection**



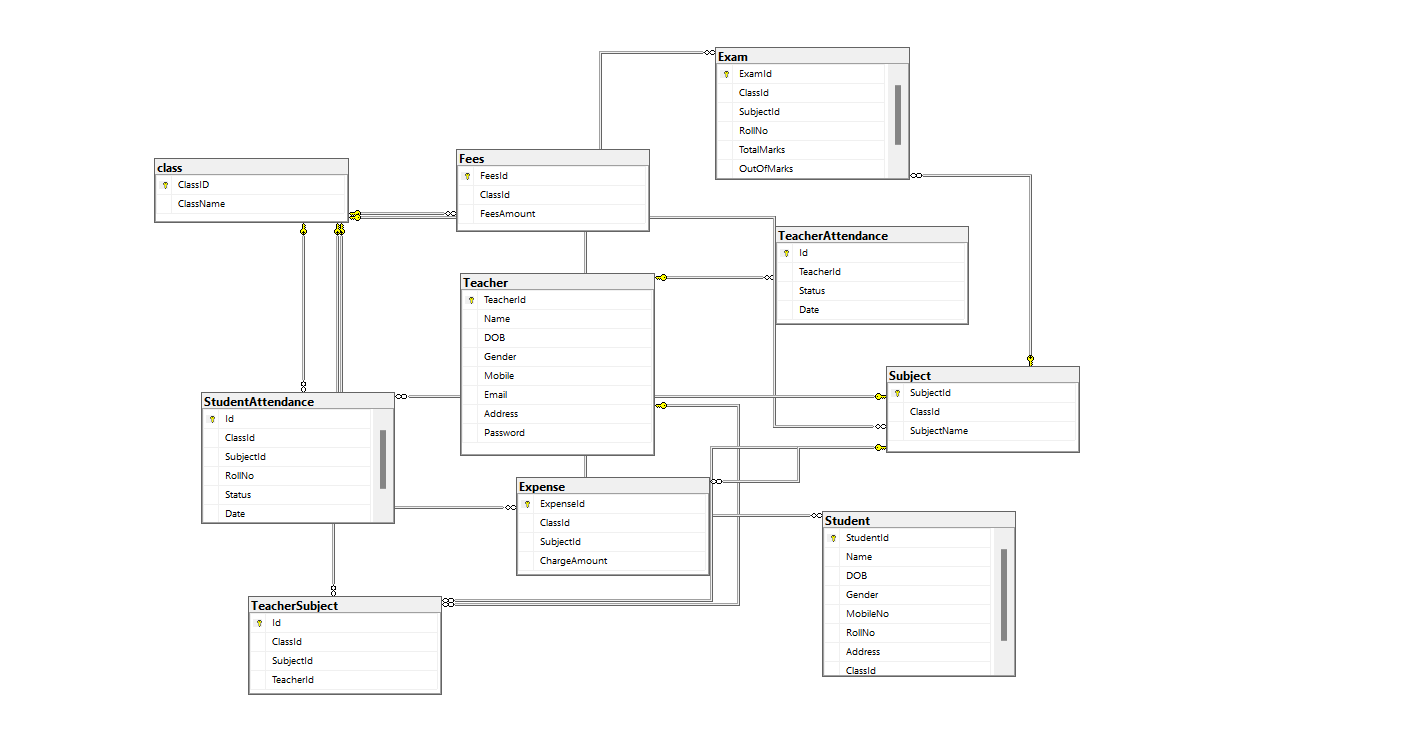
# SYSTEM DESIGN

**3. System Design Details:**

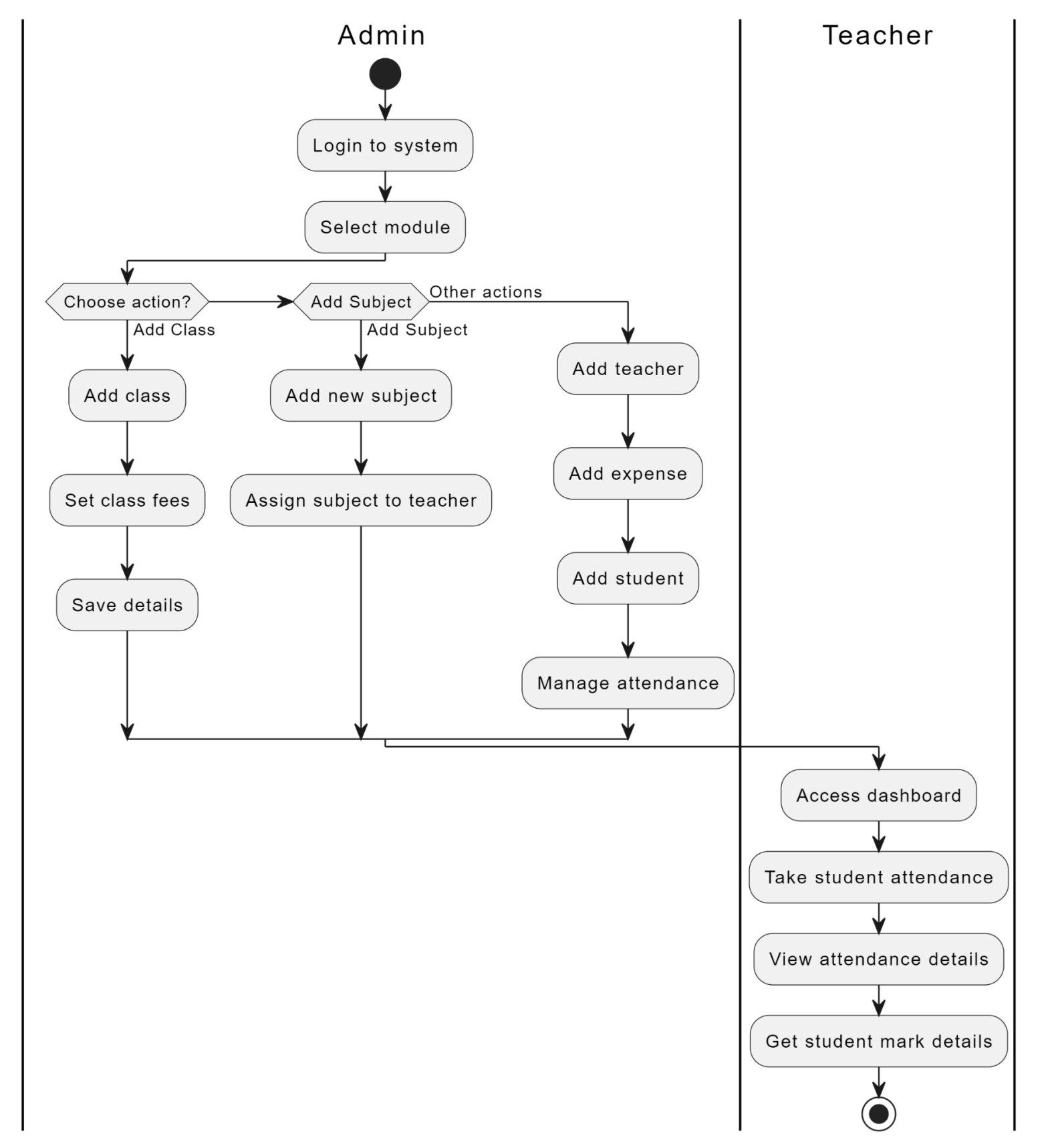
* 1. **Use-Case Diagram**

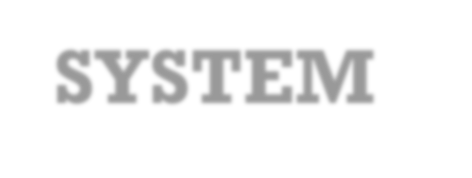
****

* 1. **Entity Relationship Diagram**



* 1. **Activity Diagram**

****



# SYSTEM IMPLEMENTATION

1. **System Implementation:**

**AdminMst.Master :**

<%@ Master Language="C#" AutoEventWireup="true" CodeBehind="AdminMst.master.cs" Inherits="StudentManagementSystem.Admin.AdminMst" %>

<!DOCTYPE html>

<html>

<head runat="server">

<title>School Management System </title>

<meta charset="UTF-8">

<%-- BOOTSTRAP CSS FILE --%>

<link href="../Content/bootstrap.min.css" rel="stylesheet" />

<script src="https://kit.fontawesome.com/b99e675b6e.js"></script>

<!-- <link href="Content/styles.css" rel="stylesheet" /> -->

<link href="../styles.css" rel="stylesheet" />

<%-- JQUERY JS & BOOTSTRAP JS FILES IMPORT --%>

<script src="../Scripts/bootstrap.min.js"></script>

<script src="../Scripts/jquery-3.0.0.min.js"></script>

<script src="../Scripts/popper.min.js"></script>

<script>

$(document).ready(function () {

$(".siderbar\_menu li").click(function () {

$(".siderbar\_menu li").removeClass("active");

$(this).addClass("active");

});

$(".hamburger").click(function () {

$(".wrapper").addClass("active");

});

$(".close, .bg\_shadow").click(function () {

$(".wrapper").removeClass("active");

});

});

</script>

<script>

$(function () {

var url = window.location.href;

$("#sub-header a").each(function () {

if (url == (this.href)) {

$(this).closest("li").addClass("active");

}

});

});

</script>

<asp:ContentPlaceHolder ID="head" runat="server">

</asp:ContentPlaceHolder>

</head>

<body>

<form id="form1" runat="server">

<div class="wrapper">

<div class="sidebar">

<div class="bg\_shadow"></div>

<div class="sidebar\_inner" id="sub-header">

<div class="close">

<i class="fas fa-times"></i>

</div>

<div class="profile\_info">

<div class="profile\_img">

<img src="../Image/logo.jpg" alt="profile\_img">

</div>

<div class="profile\_data">

<p class="name">Admin Module</p>

<span><i class="fas fa-map-marker-alt"></i>Mumbai, India</span>

</div>

</div>

<ul class="siderbar\_menu">

<li>

<a href="../Admin/AdminHome.aspx">

<div class="icon"><i class="fas fa-home"></i></div>

<div class="title">Home</div>

</a>

</li>

<li>

<a href="#">

<div class="icon"><i class="fas fa-hotel"></i></div>

<div class="title">Class</div>

<div class="arrow"><i class="fas fa-chevron-down"></i></div>

</a>

<ul class="accordion">

<li><a href="../Admin/AddClass.aspx" class="active"><i class="fas fa-user-plus pr-1"></i>Add Class</a></li>

<li><a href="../Admin/ClassFees.aspx" class="active"><i class="fas fa-money-bill-alt pr-1"></i>Class Fees</a></li>

</ul>

</li>

<li>

<a href="../Admin/Subject.aspx">

<div class="icon"><i class="fas fa-book"></i></div>

<div class="title">Subjects</div>

</a>

</li>

<li>

<a href="#">

<div class="icon"><i class="fas fa-user-tie"></i></div>

<div class="title">Teachers</div>

<div class="arrow"><i class="fas fa-chevron-down"></i></div>

</a>

<ul class="accordion">

<li><a href="../Admin/Teacher.aspx" class="active"><i class="fas fa-user-plus pr-1"></i>Add Teachers</a></li>

<li><a href="../Admin/TeacherSubject.aspx" class="active"><i class="fas fa-book-reader pr-1"></i>Teachers Subject</a></li>

<li><a href="../Admin/Expense.aspx" class="active"><i class="fas fa-hand-holding-usd pr-1"></i>Add Expense</a></li>

<li><a href="../Admin/ExpenseDetails.aspx" class="active"><i class="fas fa-money-check-alt pr-1"></i>Expense Details</a></li>

</ul>

</li>

<li>

<a href="#">

<div class="icon"><i class="fas fa-user-graduate"></i></div>

<div class="title">Students</div>

<div class="arrow"><i class="fas fa-chevron-down"></i></div>

</a>

<ul class="accordion">

<li><a href="../Admin/Student.aspx" class="active"><i class="fas fa-users pr-1"></i>Add Students</a></li>

<li><a href="../Admin/StudAttendanceDetails.aspx" class="active"><i class="far fa-list-alt pr-1"></i>Attendance Details</a></li>

</ul>

</li>

<li>

<a href="#">

<div class="icon"><i class="fas fa-clipboard-list"></i></div>

<div class="title">Examination</div>

<div class="arrow"><i class="fas fa-chevron-down"></i></div>

</a>

<ul class="accordion">

<li><a href="../Admin/Marks.aspx" class="active"><i class="fas fa-notes-medical pr-1"></i>Add Marks</a></li>

<li><a href="../Admin/MarkDetails.aspx" class="active"><i class="fas fa-clipboard-check pr-1"></i>Marks Details</a></li>

</ul>

</li>

<li>

<a href="#">

<div class="icon"><i class="fas fa-calendar-alt"></i></div>

<div class="title">Attendance</div>

<div class="arrow"><i class="fas fa-chevron-down"></i></div>

</a>

<ul class="accordion">

<li><a href="../Admin/EmployeeAttendance.aspx" class="active"><i class="fas fa-calendar-plus pr-1"></i>Employee Attendance</a></li>

<li><a href="../Admin/EmpAttendanceDetails.aspx" class="active"><i class="fas fa-calendar-check pr-1"></i>Employee Details</a></li>

</ul>

</li>

</ul>

<div class="logout\_btn">

<asp:LinkButton ID="btnLogOut" runat="server" CausesValidation="false" OnClick="btnLogOut\_Click">Logout</asp:LinkButton>

</div>

</div>

</div>

<div class="main\_container">

<div class="navbar">

<div class="hamburger">

<i class="fas fa-bars"></i>

</div>

<div class="logo">

<a href="#">English High School</a>

</div>

</div>

<asp:ContentPlaceHolder ID="ContentPlaceHolder1" runat="server">

</asp:ContentPlaceHolder>

</div>

</div>

</form>

</body>

</html>

**AdminHome.aspx**

<%@ Page Title="" Language="C#" MasterPageFile="~/Admin/AdminMst.Master" AutoEventWireup="true" CodeBehind="AdminHome.aspx.cs" Inherits="StudentManagementSystem.Admin.AdminHome" %>

<%@ Register Assembly="System.Web.DataVisualization, Version=4.0.0.0, Culture=neutral, PublicKeyToken=31bf3856ad364e35" Namespace="System.Web.UI.DataVisualization.Charting" TagPrefix="asp" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">

    <style>

        .card-counter {

            box-shadow: 2px 2px 10px #DADADA;

            margin: 5px;

            padding: 20px 10px;

            background-color: #fff;

            height: 100px;

            border-radius: 5px;

            transition: .3s linear all;

        }

            .card-counter:hover {

                box-shadow: 4px 4px 20px #DADADA;

                transition: .3s linear all;

            }

            .card-counter.primary {

                background-color: #007bff;

                color: #FFF;

            }

            .card-counter.danger {

                background-color: #ef5350;

                color: #FFF;

            }

            .card-counter.success {

                background-color: #66bb6a;

                color: #FFF;

            }

            .card-counter.info {

                background-color: #26c6da;

                color: #FFF;

            }

            .card-counter i {

                font-size: 5em;

                opacity: 0.2;

            }

            .card-counter .count-numbers {

                position: absolute;

                right: 35px;

                top: 20px;

                font-size: 32px;

                display: block;

            }

            .card-counter .count-name {

                position: absolute;

                right: 35px;

                top: 65px;

                font-style: italic;

                text-transform: capitalize;

                opacity: 0.5;

                display: block;

                font-size: 18px;

            }

    </style>

</asp:Content>

<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">

    <div style="background-color:#7091E6">

        <%--<div class="container p-md-4 p-sm-4">

            <div>

                <asp:Label ID="lblmsg" runat="server"></asp:Label>

            </div>

            <h2 class="text-center">Admin Home Page</h2>

        </div>--%>

        <div class="container">

            <div class="row pt-5">

                <div class="col-md-3">

                    <div class="card-counter primary">

                        <i class="fa fa-users"></i>

                        <span class="count-numbers"><%Response.Write(Session["student"]); %></span>

                        <span class="count-name">Total Students</span>

                    </div>

                </div>

                <div class="col-md-3">

                    <div class="card-counter danger">

                        <i class="fa fa-chalkboard-teacher"></i>

                        <span class="count-numbers"><%Response.Write(Session["teacher"]); %></span>

                        <span class="count-name">Total Teacher</span>

                    </div>

                </div>

                <div class="col-md-3">

                    <div class="card-counter success">

                        <i class="fa fa-building"></i>

                        <span class="count-numbers"><%Response.Write(Session["class"]); %></span>

                        <span class="count-name">Total Class</span>

                    </div>

                </div>

                <div class="col-md-3">

                    <div class="card-counter info">

                        <i class="fa fa-book"></i>

                        <span class="count-numbers"><%Response.Write(Session["subject"]); %></span>

                        <span class="count-name">Total Subject</span>

                    </div>

                </div>

            </div>

            <br> <br />

            <div class="col-md-3">

                <!-- Embedding another ASPX page using iframe -->

                <iframe src="../Dashboard.aspx" width="600px" height="400px" frameborder="0"></iframe>

            </div>

        </div>

    </div>

</asp:Content>

**AdminHome.aspx.cs**

using System;

using System.Collections.Generic;

using System.Data;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

using static StudentManagementSystem.Models.CommonFn;

namespace StudentManagementSystem.Admin

{

    public partial class AdminHome : System.Web.UI.Page

    {

        Commonfnx fn = new Commonfnx();

        protected void Page\_Load(object sender, EventArgs e)

        {

            if (Session["admin"] == null)

            {

                Response.Redirect("../Login.aspx");

            }

            else

            {

                StudentCount();

                TeacherCount();

                SubjectCount();

                ClassCount();

            }

        }

        void StudentCount()

        {

            DataTable dt = fn.Fetch("Select Count(\*) from Student");

            Session["student"] = dt.Rows[0][0];

        }

        void TeacherCount()

        {

            DataTable dt = fn.Fetch("Select Count(\*) from Teacher");

            Session["teacher"] = dt.Rows[0][0];

        }

        void ClassCount()

        {

            DataTable dt = fn.Fetch("Select Count(\*) from Class");

            Session["class"] = dt.Rows[0][0];

        }

        void SubjectCount()

        {

            DataTable dt = fn.Fetch("Select Count(\*) from Subject");

            Session["subject"] = dt.Rows[0][0];

        }

    }

}

**Login.aspx**

<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="Login.aspx.cs" Inherits="StudentManagementSystem.Login" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">

<head runat="server">

    <title>School Management System</title>

    <link href="Content/bootstrap.min.css" rel="stylesheet" />

    <script src="Scripts/popper.min.js"></script>

    <script src="Scripts/jquery-3.0.0.min.js"></script>

    <script src="Scripts/bootstrap.min.js"></script>

    <script src="Scripts/bootstrap.bundle.min.js"></script>

    <style>

        .login, .image {

            min-height: 100vh;

        }

        .bg-image {

            background-image: url("../Image/login.jpg");

            background-size: cover;

        }

    </style>

</head>

<body>

    <form id="form1" runat="server">

        <div class="container-fluid">

            <div class="row no-gutters">

                <!-- The Image Half -->

                <div class="col-md-6 d-none d-md-flex bg-image"></div>

                <!-- The Content Half  -->

                <div class="col-md-6 bg-light">

                    <div class="login d-flex align-items-center py-5">

                        <!-- Demo Content -->

                        <div class="container">

                            <div class="row">

                                <div class="col-lg-10 col-xl-7 mx-auto">

                                    <h3 class="display-4 pb-3">Sign In</h3>

                                    <p class="text-muted mb-4">Login Page for Admin And Teacher</p>

                                    <div class="form-group mb-3">

                                        <input type="text" id="inputEmail" placeholder="Enter Email" required="" runat="server" autofocus="" class="form-control rounded-pill border-0 shadow-sm px-4" />

                                    </div>

                                    <div class="form-group mb-3 mb-2">

                                        <input type="password" id="inputPassword" placeholder="Password" required="" runat="server" class="form-control rounded-pill border-0 shadow-sm px-4 text-primary" />

                                    </div>

                                    <asp:Button ID="btnLogin" runat="server" Text="Sign In" CssClass="btn btn-primary btn-block text-uppercase mb-2 rounded-pill shadow-sm" BackColor="#5558C9" OnClick="btnLogin\_Click" />

                                    <p class="sign\_up">

                                        Don't have an account as Teacher?

                                    <asp:LinkButton ID="LinkButton1" runat="server" OnClick="LinkButton1\_Click">Register</asp:LinkButton>

                                    </p>

                                    <p class="forgot-password text-center">

                                        <a href="ChangePassword.aspx"> Forgot Password </a>

                                    </p>

                                    <div class="text-center d-flex justify-content-between mt-4">

                                        <asp:Label ID="lblMsg" runat="server"></asp:Label>

                                    </div>

                                </div>

                            </div>

                        </div>

                    </div>

                </div>

            </div>

        </div>

    </form>

</body>

</html>

**Login.aspx.cs**

using System;

using System.Collections.Generic;

using System.Data;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

using System.Net.Mail;

using static StudentManagementSystem.Models.CommonFn;

using System.Data.SqlClient;

namespace StudentManagementSystem

{

    public partial class Login : System.Web.UI.Page

    {

        Commonfnx fn = new Commonfnx();

        protected void Page\_Load(object sender, EventArgs e)

        {

        }

        protected void btnLogin\_Click(object sender, EventArgs e)

        {

            string email = inputEmail.Value.Trim();

            string password = inputPassword.Value.Trim();

            DataTable dt = fn.Fetch("Select \* from Teacher where Email = '"+email+"' and Password = '"+password+"' ");

            if (email == "Admin" && password == "123")

            {

                Session["admin"] = email;

                Response.Redirect("Admin/AdminHome.aspx");

            }

            else if (dt.Rows.Count > 0)

            {

                Session["staff"] = email;

                Response.Redirect("Teacher/TeacherHome.aspx");

            }

            else

            {

                lblMsg.Text = "Login Failed!!";

                lblMsg.ForeColor = System.Drawing.Color.Red;

            }

        }

        protected void LinkButton1\_Click(object sender, EventArgs e)

        {

            Response.Redirect("Register.aspx");

        }

    }

}

**AddClass.aspx**

<%@ Page Title="" Language="C#" MasterPageFile="~/Admin/AdminMst.Master" AutoEventWireup="true" CodeBehind="AddClass.aspx.cs" Inherits="StudentManagementSystem.Admin.AddClass" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">

</asp:Content>

<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">

    <div style="background-image: url('../Image/bg.jpg'); width: 100%; height: 720px; background-repeat: no-repeat; background-size: cover; background-attachment: fixed;">

        <div class="container p-md-4 p-sm-4">

            <div>

                <asp:Label ID="lblmsg" runat="server"></asp:Label>

            </div>

            <h3 class="text-center">New Class</h3>

            <%-- TextBox --%>

            <div class="row mb-3 mr-lg-5 ml-lg-5 mt-md-5">

                <div class="col-md-6">

                    <label>Class Name</label>

                    <asp:TextBox ID="txtClass" runat="server" CssClass="form-control" placeholder="Enter Class Name" required></asp:TextBox>

                </div>

            </div>

            <%-- Button --%>

            <div class="row mb-3 mr-lg-5 ml-lg-5">

                <div class="col-md-3 col-md-offset-2 mb-3">

                    <asp:Button ID="btnAdd" runat="server" Text="Add Class" CssClass="btn btn-primary btn-block" BackColor="#5558C9" OnClick="btnAdd\_Click" />

                </div>

            </div>

            <div class="row mb-3 mr-lg-5 ml-lg-5">

                <div class="col-md-6">

                    <asp:GridView ID="GridView1" runat="server" CssClass="table table-bordered table-hover"

                        DataKeyNames="ClassId" AutoGenerateColumns="False" EmptyDataText="No Record to Display!"

                        OnPageIndexChanged="Page\_Load" OnPageIndexChanging="GridView1\_PageIndexChanging" OnRowCancelingEdit="GridView1\_RowCancelingEdit"

                        OnRowEditing="GridView1\_RowEditing" OnRowUpdating="GridView1\_RowUpdating" AllowPaging="true" PageSize="4">

                        <Columns>

                            <asp:BoundField DataField="Sr.No" HeaderText="Sr.No" ReadOnly="True">

                            <ItemStyle HorizontalAlign="Center" />

                            </asp:BoundField>

                            <asp:TemplateField HeaderText="Class">

                                <EditItemTemplate>

                                    <asp:TextBox ID="txtClassEdit" runat="server" Text='<%# Eval("ClassName") %>' CssClass="form-control"></asp:TextBox>

                                </EditItemTemplate>

                                <ItemTemplate>

                                    <asp:Label ID="lblClassName" runat="server" Text='<%# Eval("ClassName") %>'></asp:Label>

                                </ItemTemplate>

                                <ItemStyle HorizontalAlign="Center" />

                            </asp:TemplateField>

                            <asp:CommandField CausesValidation="False" HeaderText="Operation" ShowEditButton="True" />

                        </Columns>

                        <HeaderStyle BackColor="#5558C9" ForeColor="White" />

                    </asp:GridView>

                   </div>

            </div>

        </div>

    </div>

</asp:Content>

**AddClass.aspx.cs**

using StudentManagementSystem.Models;

using System;

using System.Collections.Generic;

using System.Data;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

using static StudentManagementSystem.Models.CommonFn;

namespace StudentManagementSystem.Admin

{

    public partial class AddClass : System.Web.UI.Page

    {

        Commonfnx fn = new Commonfnx();

        protected void Page\_Load(object sender, EventArgs e)

        {

            if (Session["admin"] == null)

            {

                Response.Redirect("../Login.aspx");

            }

            if (!IsPostBack)

            {

                GetClass();

            }

        }

        private void GetClass()

        {

            DataTable dt = fn.Fetch("Select Row\_NUMBER() over(Order by (Select 1)) as [Sr.No],ClassID, ClassName from class");

            GridView1.DataSource = dt;

            GridView1.DataBind();

        }

        protected void btnAdd\_Click(object sender, EventArgs e)

        {

            try

            {

                // Check whether the class entry for the first time

                DataTable dt = fn.Fetch("Select \* FROM class where ClassName = '"+txtClass.Text.Trim()+"' ");

                if (dt.Rows.Count == 0)

                {

                    string query = "Insert Into class values('" + txtClass.Text.Trim() + "') ";

                    fn.Query(query);

                    lblmsg.Text = "Inserted Successfully";

                    lblmsg.CssClass = "alert alert-success";

                    txtClass.Text = string.Empty;

                    GetClass();

                }

                else

                {

                    lblmsg.Text = "Entered Class already exists";

                    lblmsg.CssClass = "alert alert-danger";

                }

            }

            catch (Exception ex)

            {

                Response.Write("<script> alert('"+ ex.Message +"'); </script>");

            }

        }

        protected void GridView1\_PageIndexChanging(object sender, GridViewPageEventArgs e)

        {

            GridView1.PageIndex = e.NewPageIndex;

            GetClass() ;

        }

        protected void GridView1\_RowCancelingEdit(object sender, GridViewCancelEditEventArgs e)

        {

            GridView1.EditIndex = -1;

            GetClass();

        }

        protected void GridView1\_RowEditing(object sender, GridViewEditEventArgs e)

        {

            GridView1.EditIndex = e.NewEditIndex;

        }

        protected void GridView1\_RowUpdating(object sender, GridViewUpdateEventArgs e)

        {

            try

            {

                GridViewRow row = GridView1.Rows[e.RowIndex];

                int cId = Convert.ToInt32(GridView1.DataKeys[e.RowIndex].Values[0]);

                string ClassName = (row.FindControl("txtClassEdit") as TextBox).Text;

                fn.Query("Update Class set ClassName = '" + ClassName + "' where ClassId = '" + cId + "' ");

                lblmsg.Text = "Class Update Successfully";

                lblmsg.CssClass = "alert alert-success";

                GridView1.EditIndex = -1;

                GetClass();

            }

            catch (Exception ex)

            {

                Response.Write("<script> alert('" + ex.Message + "'); </script>");

            }

        }

    }

}

**ClassFees.aspx**

<%@ Page Title="" Language="C#" MasterPageFile="~/Admin/AdminMst.Master" AutoEventWireup="true" CodeBehind="ClassFees.aspx.cs" Inherits="StudentManagementSystem.Admin.ClassFees" %>

<asp:Content ID="Content1" ContentPlaceHolderID="head" runat="server">

</asp:Content>

<asp:Content ID="Content2" ContentPlaceHolderID="ContentPlaceHolder1" runat="server">

    <div style="background-image: url('../Image/bg.jpg'); width: 100%; height: 720px; background-repeat: no-repeat; background-size: cover; background-attachment: fixed;">

        <div class="container p-md-4 p-sm-4">

            <div>

                <asp:Label ID="lblmsg" runat="server"></asp:Label>

            </div>

            <h3 class="text-center">New Fees</h3>

            <%-- DropDownList --%>

            <div class="row mb-3 mr-lg-5 ml-lg-5 mt-md-5">

                <div class="col-md-6">

                    <label for="ddlClass">Class</label>

                    <asp:DropDownList ID="ddlClass" runat="server" CssClass="form-control"></asp:DropDownList>

                    <asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server" ErrorMessage="Class is Required.."

                        ControlToValidate="ddlClass" Display="Dynamic" ForeColor="Red" InitialValue="Select Class" SetFocusOnError="True">

                    </asp:RequiredFieldValidator>

                </div>

            <%-- TextBox --%>

                <div class="col-md-6">

                    <label for="txtFeeAmounts">Fees(Annual)</label>

                    <asp:TextBox ID="txtFeeAmounts" runat="server" CssClass="form-control" placeholder="Enter Fees Amount " TextMode="Number" required></asp:TextBox>

                </div>

            </div>

            <%-- Button --%>

            <div class="row mb-3 mr-lg-5 ml-lg-5">

                <div class="col-md-3 col-md-offset-2 mb-3">

                    <asp:Button ID="btnAdd" runat="server" Text="Add Class" CssClass="btn btn-primary btn-block" BackColor="#5558C9" OnClick="btnAdd\_Click" />

                </div>

            </div>

            <div class="row mb-3 mr-lg-5 ml-lg-5">

                <div class="col-md-8">

                    <asp:GridView ID="GridView1" runat="server" CssClass="table table-hover table-bordered" EmptyDataText="No record to Display"

                        AutoGenerateColumns="False" OnPageIndexChanging="GridView1\_PageIndexChanging" OnRowCancelingEdit="GridView1\_RowCancelingEdit" OnRowDeleting="GridView1\_RowDeleting"

                        OnRowEditing="GridView1\_RowEditing" OnRowUpdating="GridView1\_RowUpdating" AllowPaging="true" PageSize="4" DataKeyNames="FeesId">

                        <Columns>

                            <asp:BoundField DataField="Sr.No" HeaderText="Sr.No" ReadOnly="True">

                                <ItemStyle HorizontalAlign="Center" />

                            </asp:BoundField>

                            <asp:BoundField DataField="ClassName" HeaderText="Class" ReadOnly="True">

                                <ItemStyle HorizontalAlign="Center" />

                            </asp:BoundField>

                            <asp:TemplateField HeaderText="Fees(Annual)">

                                <EditItemTemplate>

                                    <asp:TextBox ID="TextBox1" runat="server" Text='<%# Eval("FeesAmount") %>' CssClass="form-control"></asp:TextBox>

                                </EditItemTemplate>

                                <ItemTemplate>

                                    <asp:Label ID="Label1" runat="server" Text='<%# Eval("FeesAmount") %>'></asp:Label>

                                </ItemTemplate>

                                <ItemStyle HorizontalAlign="Center" />

                            </asp:TemplateField>

                            <asp:CommandField  CausesValidation="false" HeaderText="Operation" ShowDeleteButton="True" ShowEditButton="True">

                                <ItemStyle HorizontalAlign="Center" />

                            </asp:CommandField>

                        </Columns>

                        <HeaderStyle BackColor="#5558C9" ForeColor="White" />

                    </asp:GridView>

                </div>

            </div>

        </div>

    </div>

</asp:Content>

**ClassFees.aspx.cs**

using System;

using System.Collections.Generic;

using System.Data;

using System.Linq;

using System.Runtime.InteropServices;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

using static StudentManagementSystem.Models.CommonFn;

namespace StudentManagementSystem.Admin

{

    public partial class ClassFees : System.Web.UI.Page

    {

        Commonfnx fn = new Commonfnx();

        protected void Page\_Load(object sender, EventArgs e)

        {

            if (Session["admin"] == null)

            {

                Response.Redirect("../Login.aspx");

            }

            if (!IsPostBack)

            {

                GetClass();

                GetFees();

            }

        }

        private void GetClass()

        {

            DataTable dt = fn.Fetch("Select \* from Class");

            ddlClass.DataSource = dt;

            ddlClass.DataTextField = "ClassName";

            ddlClass.DataValueField = "ClassId";

            ddlClass.DataBind();

            ddlClass.Items.Insert(0, "Select Class");

        }

        protected void btnAdd\_Click(object sender, EventArgs e)

        {

            try

            {

                string classVal = ddlClass.SelectedItem.Text;

                // Check whether the class entry for the first time

                DataTable dt = fn.Fetch("Select \* from Fees where ClassId = '"+ddlClass.SelectedItem.Value+"' ");

                if (dt.Rows.Count == 0)

                {

                    string query = "Insert Into Fees values('"+ddlClass.SelectedItem.Value+"','" + txtFeeAmounts.Text.Trim() + "') ";

                    fn.Query(query);

                    lblmsg.Text = "Inserted Successfully";

                    lblmsg.CssClass = "alert alert-success";

                    ddlClass.SelectedIndex = 0;

                    txtFeeAmounts.Text = string.Empty;

                    GetFees();

                }

                else

                {

                    lblmsg.Text = "Entered Fees already exists for <b> '"+classVal+"' </b>";

                    lblmsg.CssClass = "alert alert-danger";

                }

            }

            catch (Exception ex)

            {

                Response.Write("<script> alert('" + ex.Message + "'); </script>");

            }

        }

        private void GetFees()

        {

            DataTable dt = fn.Fetch(@"Select Row\_NUMBER() over(Order by (Select 1)) as [Sr.No],f.FeesId, f.ClassId, c.ClassName,f.FeesAmount

                                    from Fees f inner join Class c on c.ClassId = f.ClassId");

            GridView1.DataSource = dt;

            GridView1.DataBind();

        }

        protected void GridView1\_PageIndexChanging(object sender, GridViewPageEventArgs e)

        {

            GridView1.PageIndex = e.NewPageIndex;

            GetFees() ;

        }

        protected void GridView1\_RowCancelingEdit(object sender, GridViewCancelEditEventArgs e)

        {

            GridView1.EditIndex = -1;

            GetFees() ;

        }

        protected void GridView1\_RowDeleting(object sender, GridViewDeleteEventArgs e)

        {

            try

            {

                int feesId = Convert.ToInt32(GridView1.DataKeys[e.RowIndex].Values[0]);

                fn.Query("Delete from fees where FeesId = '"+feesId+"' ");

                lblmsg.Text = "Fees Deleted Successfully";

                lblmsg.CssClass = "alert alert-success";

                GridView1.EditIndex = -1;

                GetFees();

            }

            catch (Exception ex)

            {

                Response.Write("<script> alert('" + ex.Message + "'); </script>");

            }

        }

        protected void GridView1\_RowEditing(object sender, GridViewEditEventArgs e)

        {

            GridView1.EditIndex = e.NewEditIndex;

            GetFees();

        }

        protected void GridView1\_RowUpdating(object sender, GridViewUpdateEventArgs e)

        {

            try

            {

                GridViewRow row = GridView1.Rows[e.RowIndex];

                int feesId = Convert.ToInt32(GridView1.DataKeys[e.RowIndex].Values[0]);

                // TextBox1 is getting from the gridview...

                string feeAmt = (row.FindControl("TextBox1") as TextBox).Text;

                fn.Query("Update Fees set FeesAmount = '"+feeAmt.Trim() +"' where FeesId = '"+feesId+"' ");

                lblmsg.Text = "Fees Update Successfully";

                lblmsg.CssClass = "alert alert-success";

                GridView1.EditIndex = -1;

                GetFees();

            }

            catch (Exception ex)

            {

                Response.Write("<script> alert('" + ex.Message + "'); </script>");

            }

        }

    }

}

**StudentAttendanceUC.ascx**

<%@ Control Language="C#" AutoEventWireup="true" CodeBehind="StudentAttendanceUC.ascx.cs" Inherits="StudentManagementSystem.StudentAttendanceUC" %>

<div style="background-image: url('../Image/bg.jpg'); width: 100%; height: 720px; background-repeat: no-repeat; background-size: cover; background-attachment: fixed;">

    <div class="container p-md-4 p-sm-4">

        <div>

            <asp:Label ID="lblmsg" runat="server"></asp:Label>

        </div>

        <h3 class="text-center">Student's Attendance Detail</h3>

        <div class="row mb-3 mr-lg-5 ml-lg-5 mt-md-5">

            <div class="col-md-6">

                <label for="ddlClass">Class</label>

                <asp:DropDownList ID="ddlClass" runat="server" CssClass="form-control" AutoPostBack="true" OnSelectedIndexChanged="ddlClass\_SelectedIndexChanged"></asp:DropDownList>

                <asp:RequiredFieldValidator ID="RequiredFieldValidator1" runat="server" ErrorMessage="Class is Required.."

                    ControlToValidate="ddlClass" Display="Dynamic" ForeColor="Red" InitialValue="Select Class" SetFocusOnError="True">

                </asp:RequiredFieldValidator>

            </div>

            <div class="col-md-6">

                <label for="ddlSubject">Subject</label>

                <asp:DropDownList ID="ddlSubject" runat="server" CssClass="form-control"></asp:DropDownList>

                <%--<asp:RequiredFieldValidator ID="RequiredFieldValidator2" runat="server" ErrorMessage="Subject is Required.."

                 ControlToValidate="ddlSubject" Display="Dynamic" ForeColor="Red" InitialValue="Select Subject" SetFocusOnError="True">

             </asp:RequiredFieldValidator>--%>

            </div>

        </div>

        <div class="row mb-3 mr-lg-5 ml-lg-5 mt-md-5">

            <div class="col-md-6">

                <label for="ddlClass">Roll Number</label>

                <asp:TextBox ID="txtRollNo" runat="server" CssClass="form-control" placeholder="Enter Student Roll Number"></asp:TextBox>

                <asp:RequiredFieldValidator ID="RequiredFieldValidator2" runat="server" ErrorMessage="RollNo is Required.."

                    ControlToValidate="txtRollNo" Display="Dynamic" ForeColor="Red" SetFocusOnError="True">

                </asp:RequiredFieldValidator>

            </div>

            <div class="col-md-6">

                <label for="ddlSubject">Month</label>

                <asp:TextBox ID="txtMonth" runat="server" CssClass="form-control" TextMode="Month"></asp:TextBox>

                <asp:RequiredFieldValidator ID="RequiredFieldValidator3" runat="server" ErrorMessage="Month is Required.."

                    ControlToValidate="txtMonth" Display="Dynamic" ForeColor="Red" SetFocusOnError="True">

                </asp:RequiredFieldValidator>

            </div>

        </div>

        <div class="row mb-3 mr-lg-5 ml-lg-5">

            <div class="col-md-3 col-md-offset-2 mb-3">

                <asp:Button ID="btnCheckAttendance" runat="server" Text="Check Attendance" CssClass="btn btn-primary btn-block" BackColor="#5558C9" OnClick="btnCheckAttendance\_Click" />

            </div>

        </div>

        <div class="row mb-3 mr-lg-5 ml-lg-5">

            <div class="col-md-12">

                <asp:GridView ID="GridView1" runat="server" CssClass="table table-hover table-bordered" EmptyDataText="No record to Display"

                    AutoGenerateColumns="False">

                    <Columns>

                        <asp:BoundField DataField="Sr.No" HeaderText="Sr.No">

                            <ItemStyle HorizontalAlign="Center" />

                        </asp:BoundField>

                        <asp:BoundField DataField="Name" HeaderText="Name">

                            <ItemStyle HorizontalAlign="Center" />

                        </asp:BoundField>

                        <%--<asp:BoundField DataField="Status" HeaderText="Status">

            <ItemStyle HorizontalAlign="Center" />

        </asp:BoundField>--%>

                        <asp:TemplateField HeaderText="Status">

                            <ItemTemplate>

                                <asp:Label ID="Label1" runat="server" Text='<%#  Boolean.Parse(Eval("Status").ToString()) ? "Present" : "Absent"  %>'> </asp:Label>

                            </ItemTemplate>

                        </asp:TemplateField>

                        <asp:BoundField DataField="Date" HeaderText="Date" DataFormatString="{0:dd MMMM yyyy}">

                            <ItemStyle HorizontalAlign="Center" />

                        </asp:BoundField>

                    </Columns>

                    <HeaderStyle BackColor="#5558C9" ForeColor="White" />

                </asp:GridView>

            </div>

        </div>

    </div>

</div>

**StudentAttendanceUC.ascx.cs**

using System;

using System.Collections.Generic;

using System.Data;

using System.Linq;

using System.Web;

using System.Web.UI;

using System.Web.UI.WebControls;

using static StudentManagementSystem.Models.CommonFn;

namespace StudentManagementSystem

{

    public partial class StudentAttendanceUC : System.Web.UI.UserControl

    {

        Commonfnx fn = new Commonfnx();

        protected void Page\_Load(object sender, EventArgs e)

        {

            //if (Session["admin"] == null)

            //{

            //    Response.Redirect("../Login.aspx");

            //}

            if (!IsPostBack)

            {

                GetClass();

            }

        }

        private void GetClass()

        {

            DataTable dt = fn.Fetch("Select \* from Class");

            ddlClass.DataSource = dt;

            ddlClass.DataTextField = "ClassName";

            ddlClass.DataValueField = "ClassId";

            ddlClass.DataBind();

            ddlClass.Items.Insert(0, "Select Class");

        }

        protected void ddlClass\_SelectedIndexChanged(object sender, EventArgs e)

        {

            string classId = ddlClass.SelectedValue;

            DataTable dt = fn.Fetch("Select \* from Subject where ClassId = '" + classId + "' ");

            ddlSubject.DataSource = dt;

            ddlSubject.DataTextField = "SubjectName";

            ddlSubject.DataValueField = "SubjectId";

            ddlSubject.DataBind();

            ddlSubject.Items.Insert(0, "Select Subject");

        }

        protected void btnCheckAttendance\_Click(object sender, EventArgs e)

        {

            DataTable dt;

            DateTime date = Convert.ToDateTime(txtMonth.Text);

            if (ddlSubject.SelectedValue == "Select Subject")

            {

                dt = fn.Fetch(@"select ROW\_NUMBER() over(order by (select 1)) as [Sr.No],s.Name,sa.Status,sa.Date from StudentAttendance sa

                                    inner join Student s on s.RollNo = sa.RollNo where sa.ClassId = '"+ ddlClass.SelectedValue +"' and sa.RollNo = '"+ txtRollNo.Text.Trim()+"' and DATEPART(yy,Date) = '" + date.Year + "' " +

                                    "and DATEPART(M,Date) = '" + date.Month + "' and sa.Status = 1 ");

            }

            else

            {

                dt = fn.Fetch(@"select ROW\_NUMBER() over(order by (select 1)) as [Sr.No],s.Name,sa.Status,sa.Date from StudentAttendance sa

                                    inner join Student s on s.RollNo = sa.RollNo where sa.ClassId = '" + ddlClass.SelectedValue + "' and sa.RollNo = '" + txtRollNo.Text.Trim() + "' " +

                                    "and sa.SubjectId = '"+ddlSubject.SelectedValue+"' and  DATEPART(yy,Date) = '" + date.Year + "' and DATEPART(M,Date) = '" + date.Month + "' and sa.Status = 1  ");

            }

            GridView1.DataSource = dt;

            GridView1.DataBind();

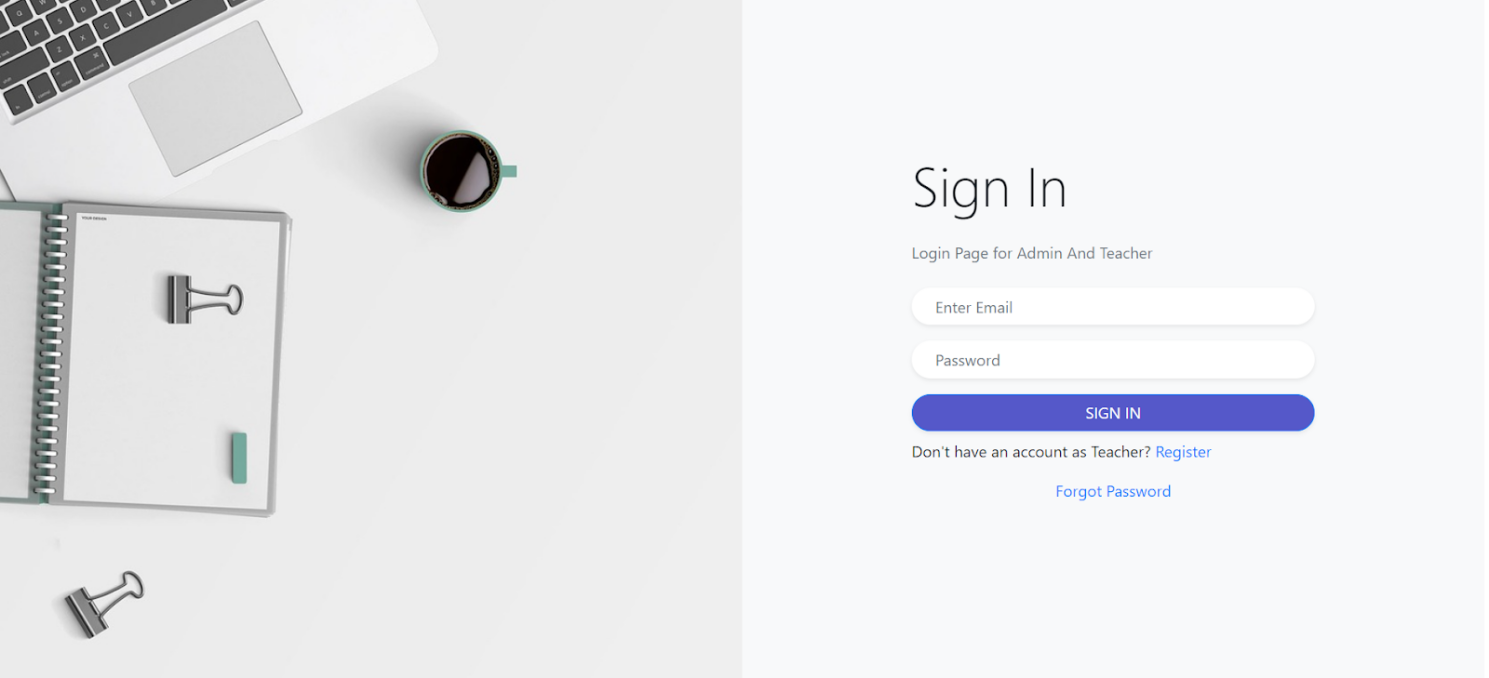
        }

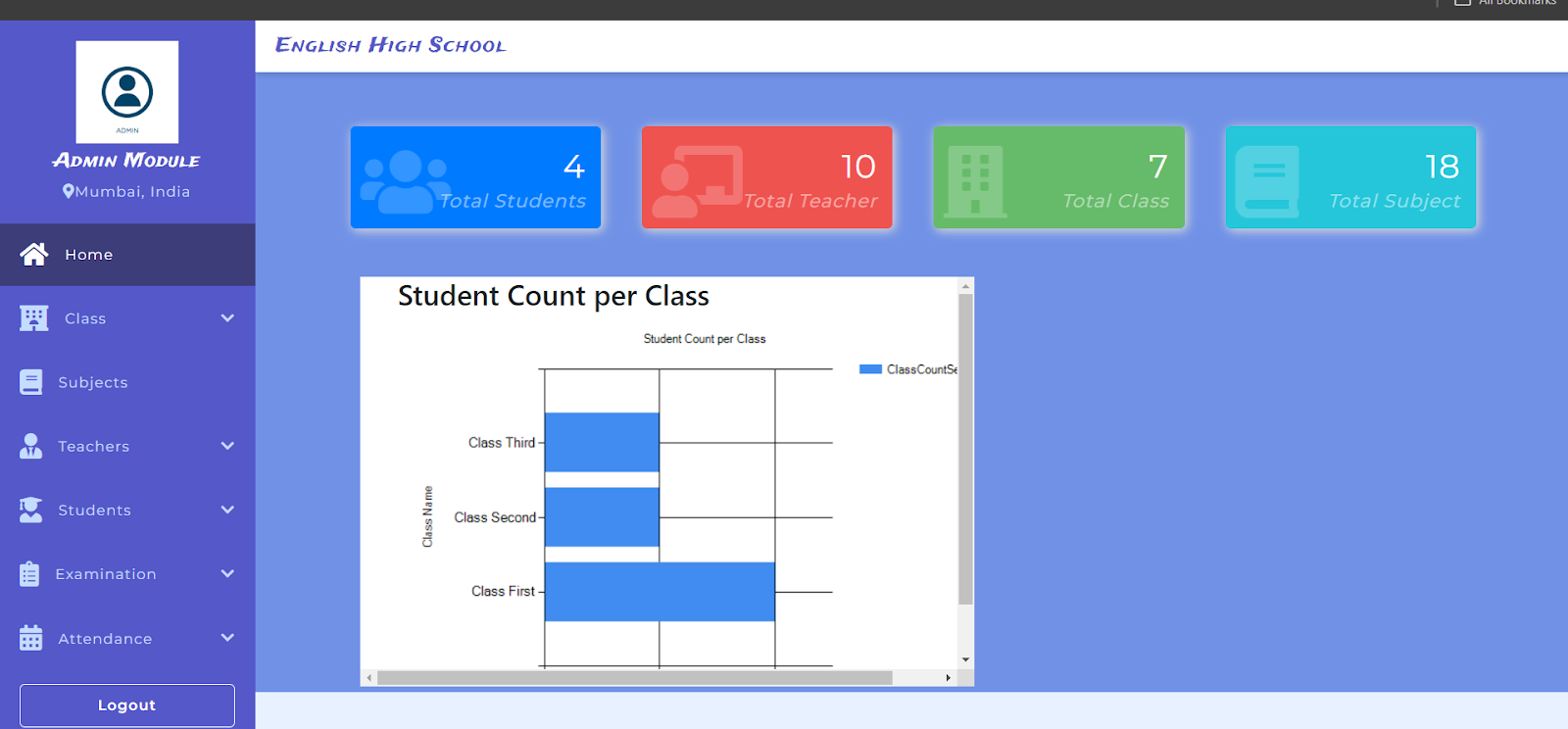
    }

}

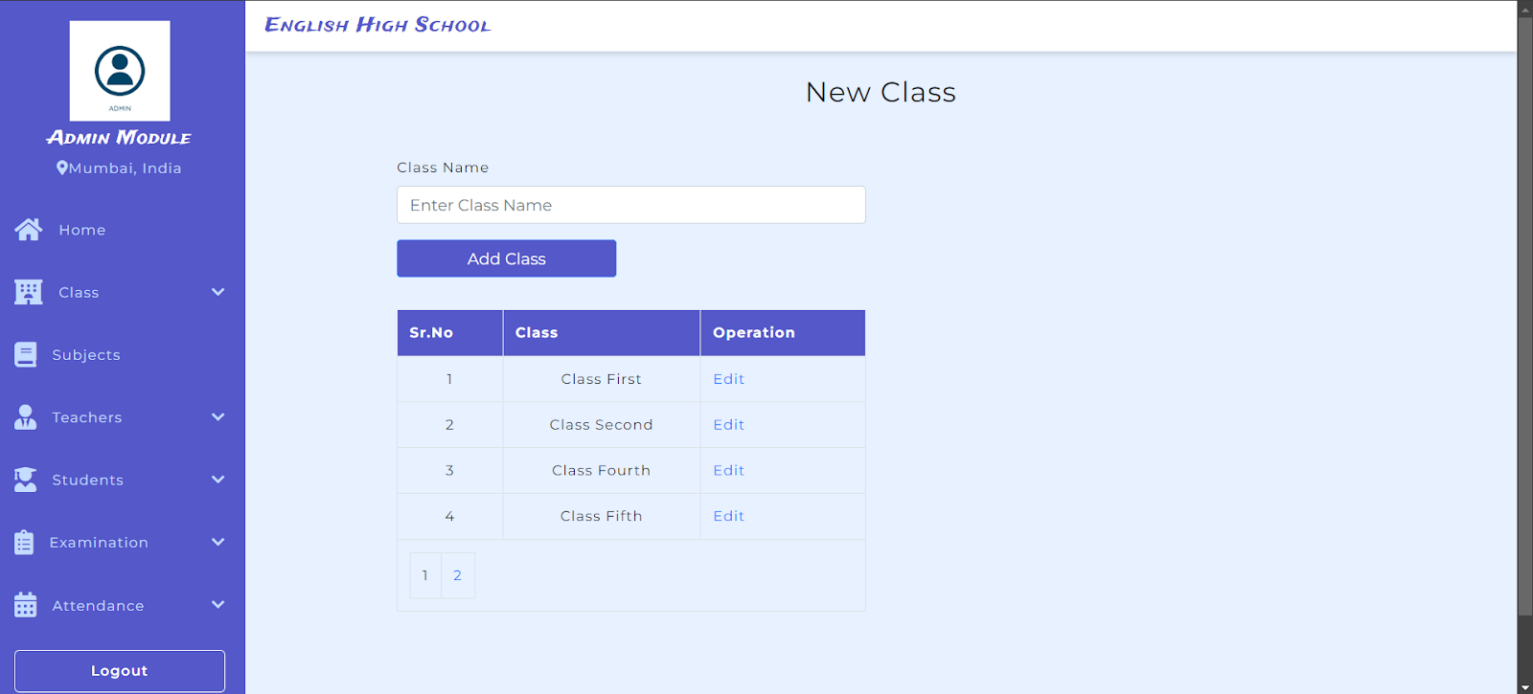
**Output:**

**Login Page**

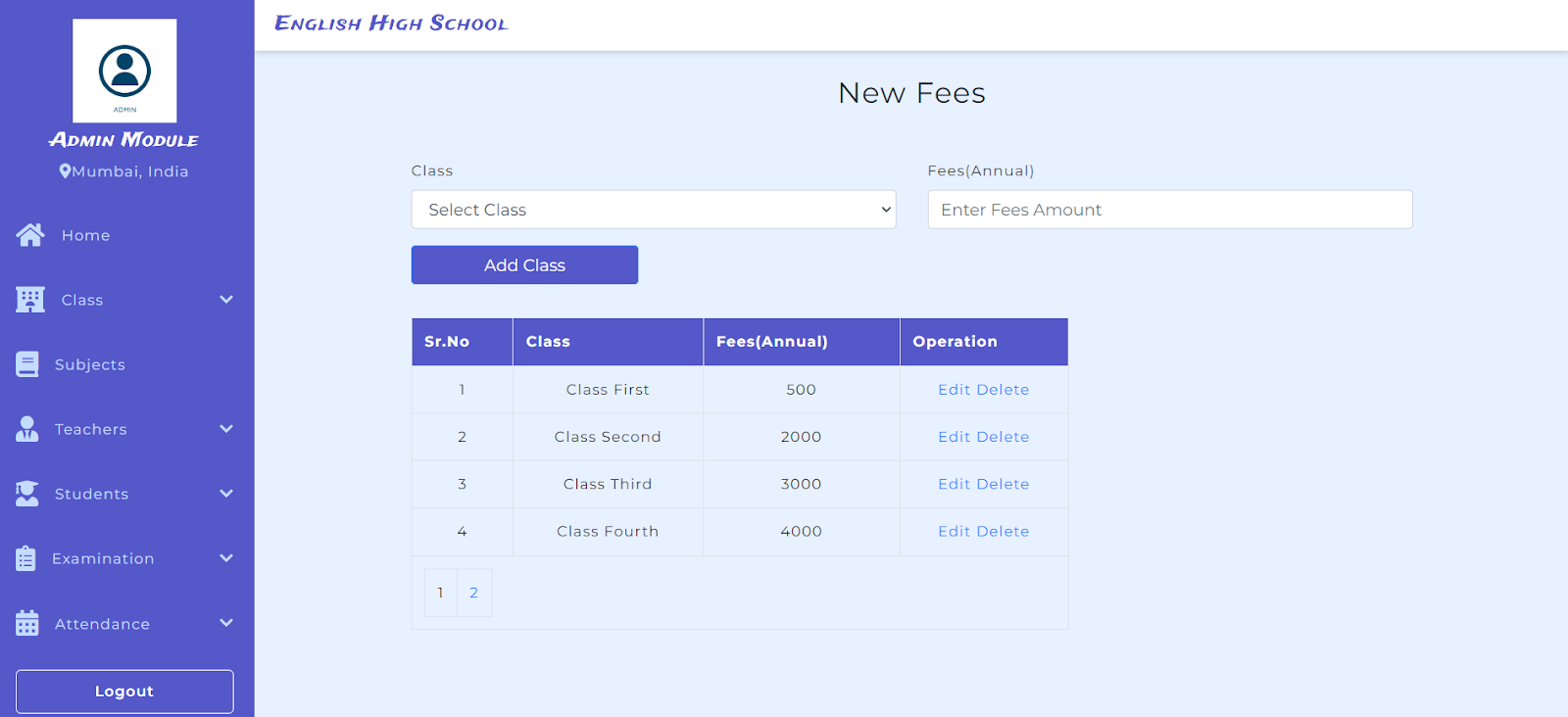


**Admin Dashboard**

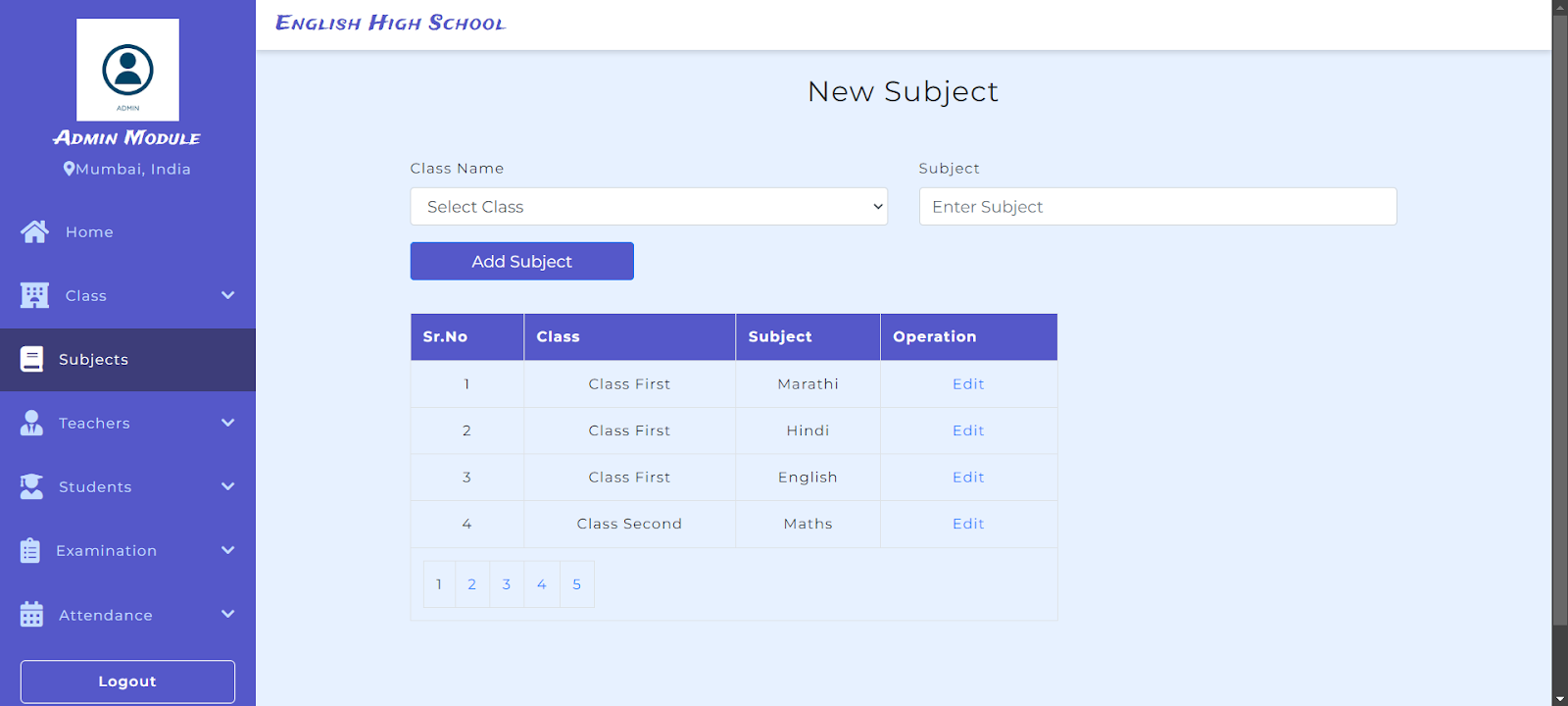
**Add Class**



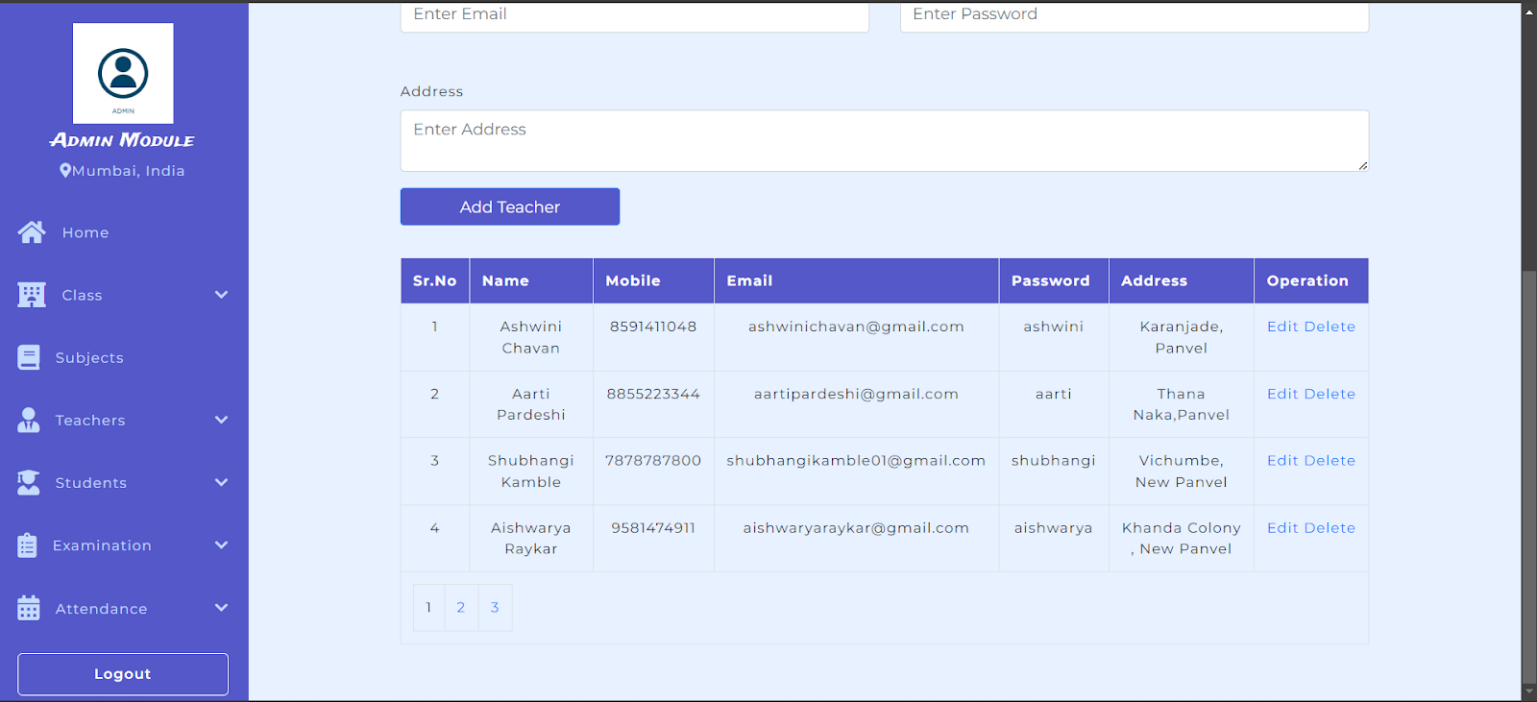
**Class Fees**



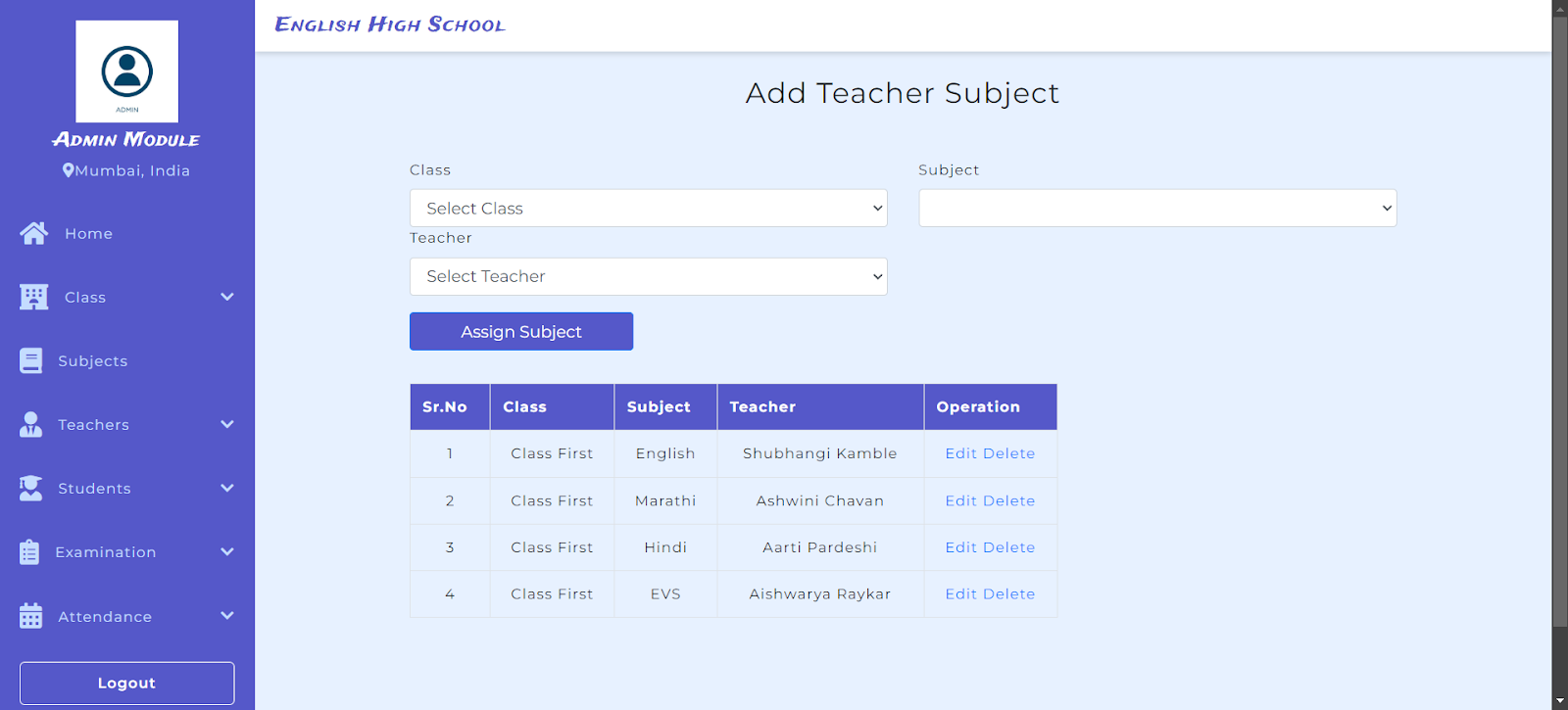
**Subjects**



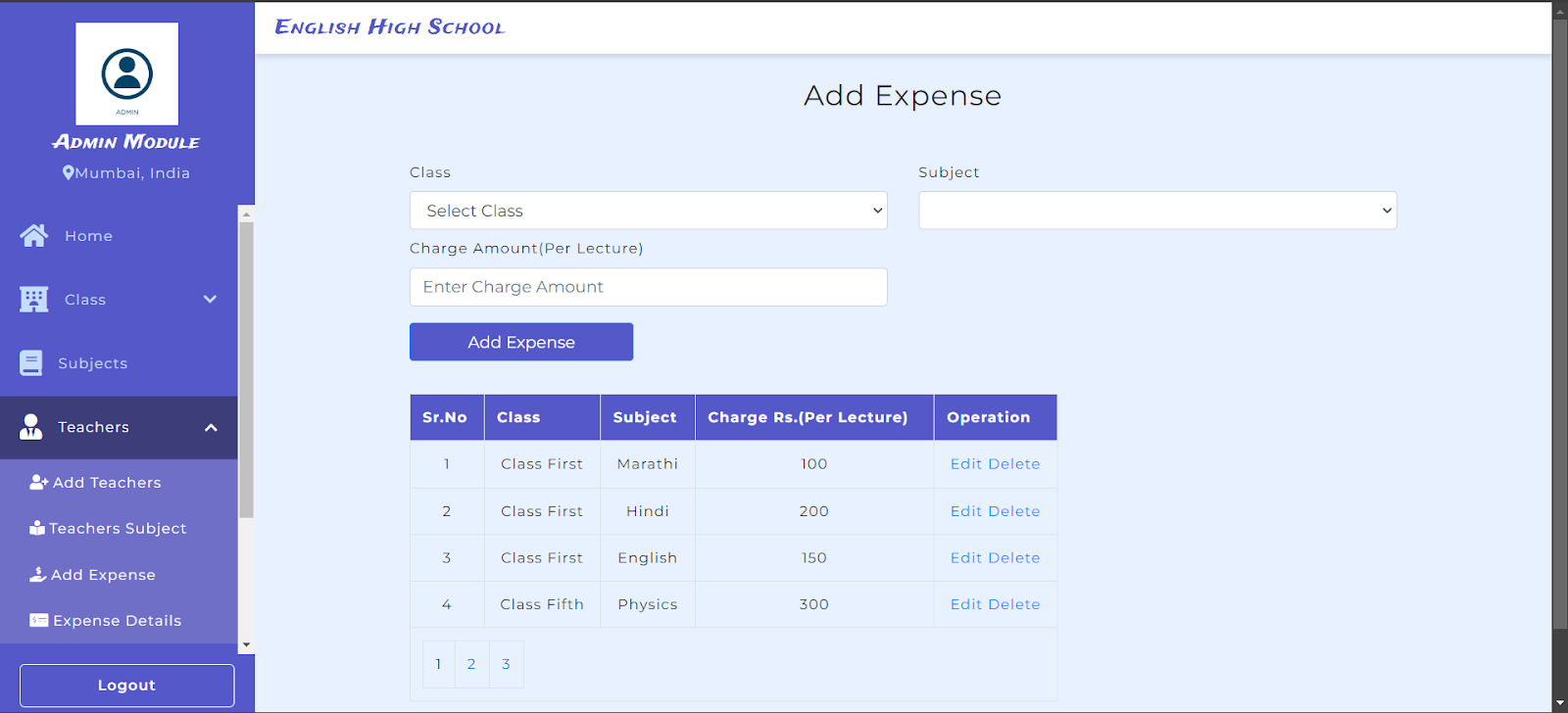
**Add Teachers**



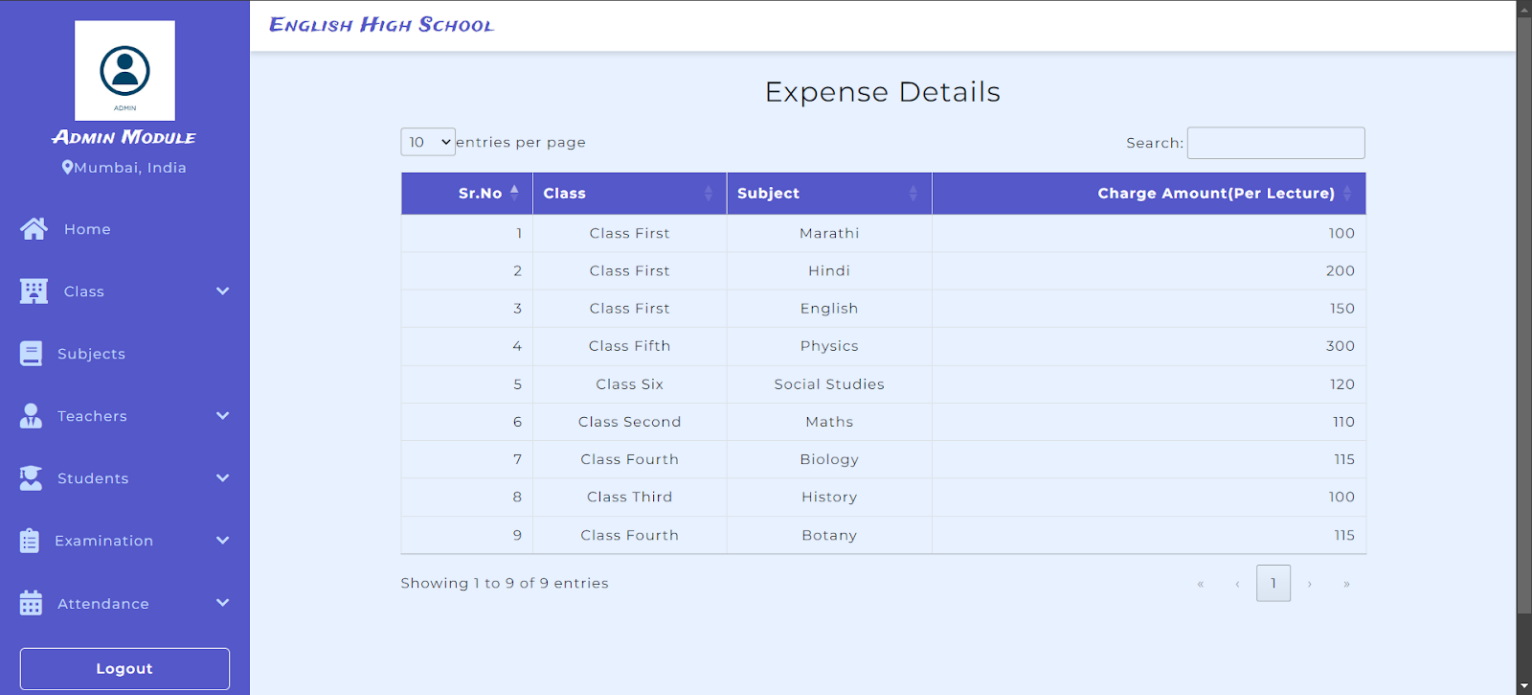
**Add Subject Teacher**



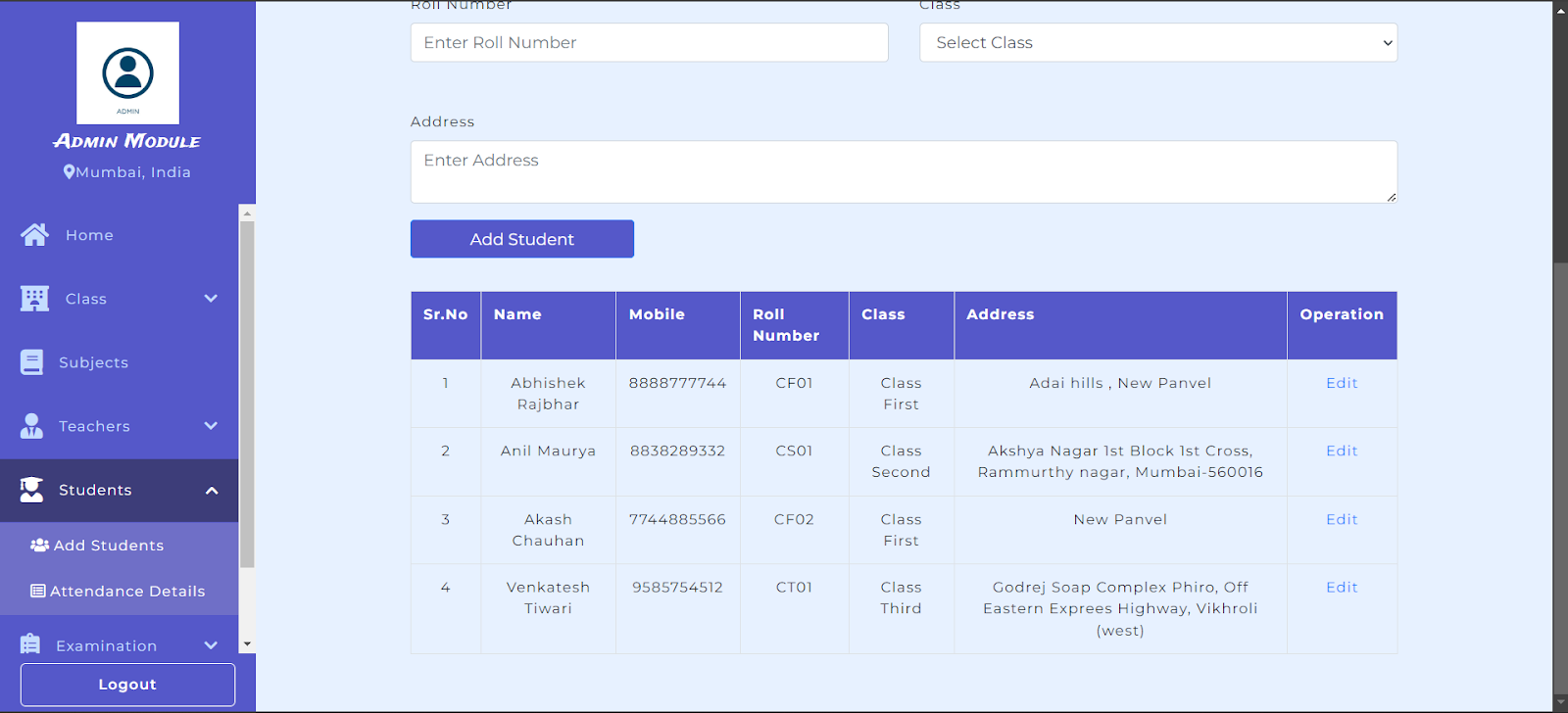
**Add Expense**



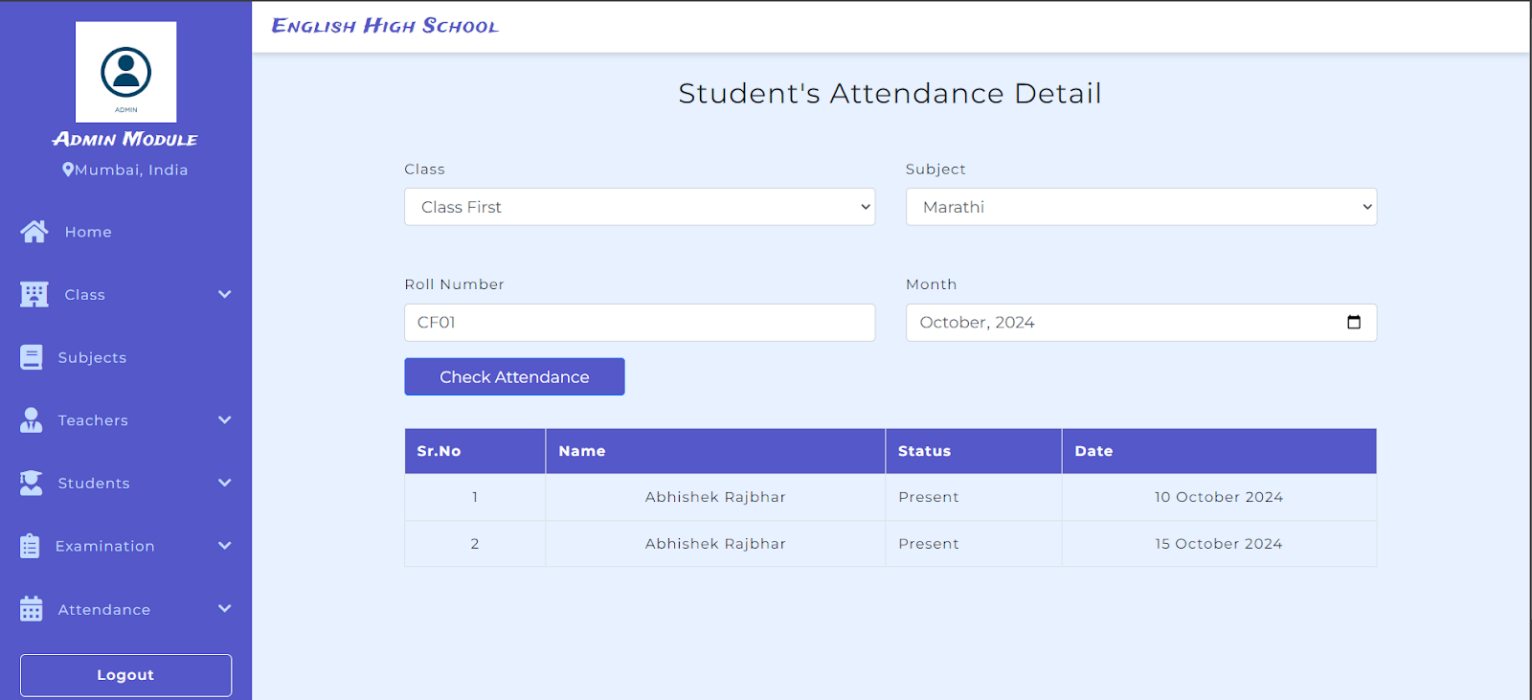
**Expense Details**



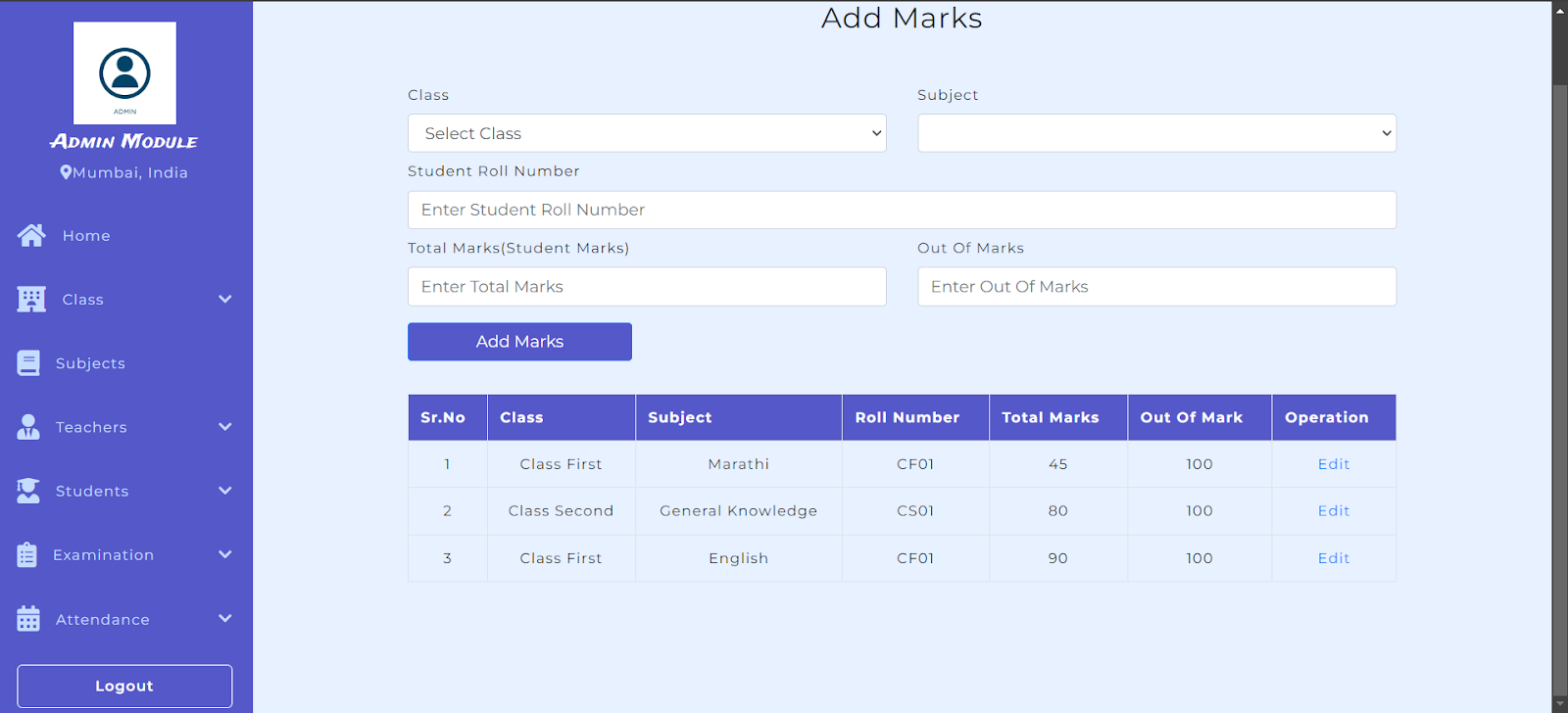
**Add Student**



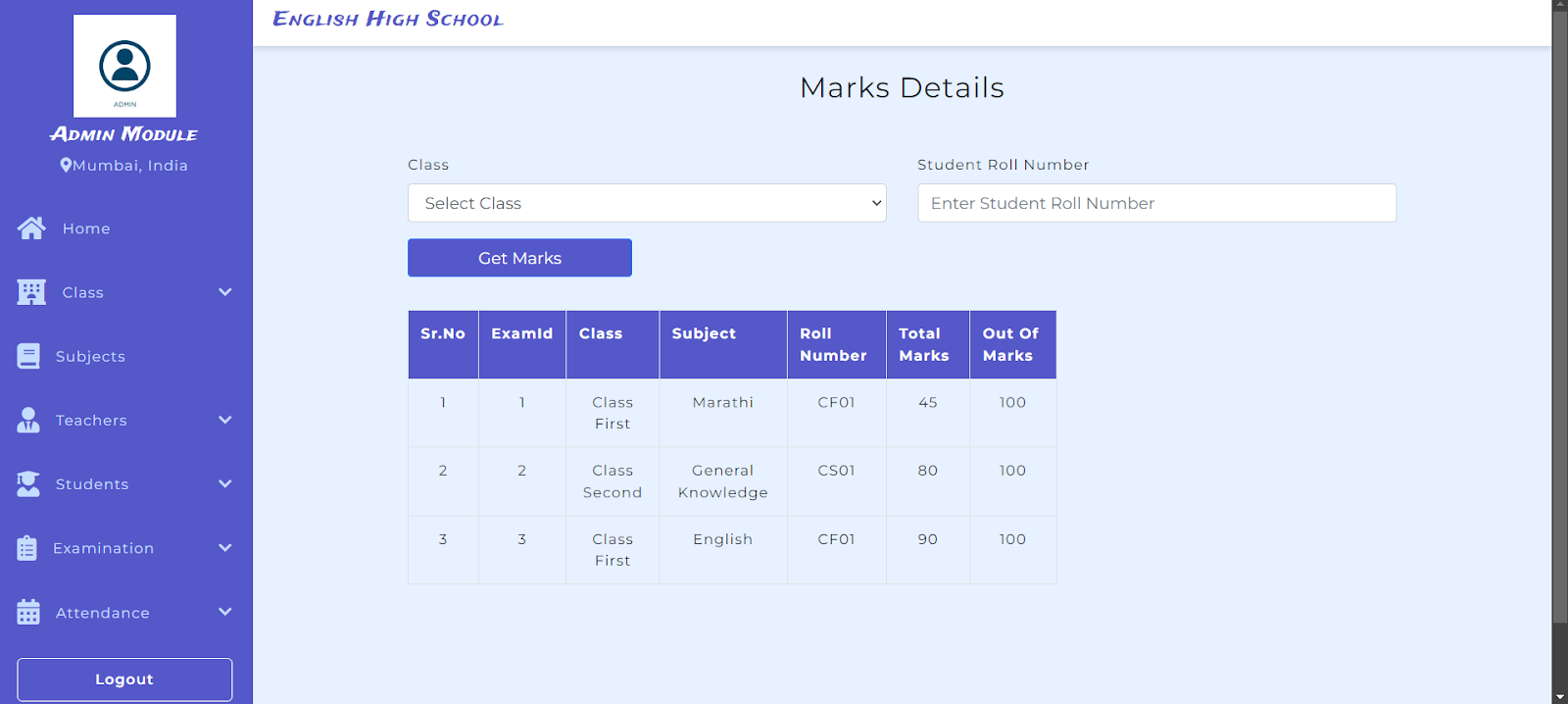
**Student Attendance Details**



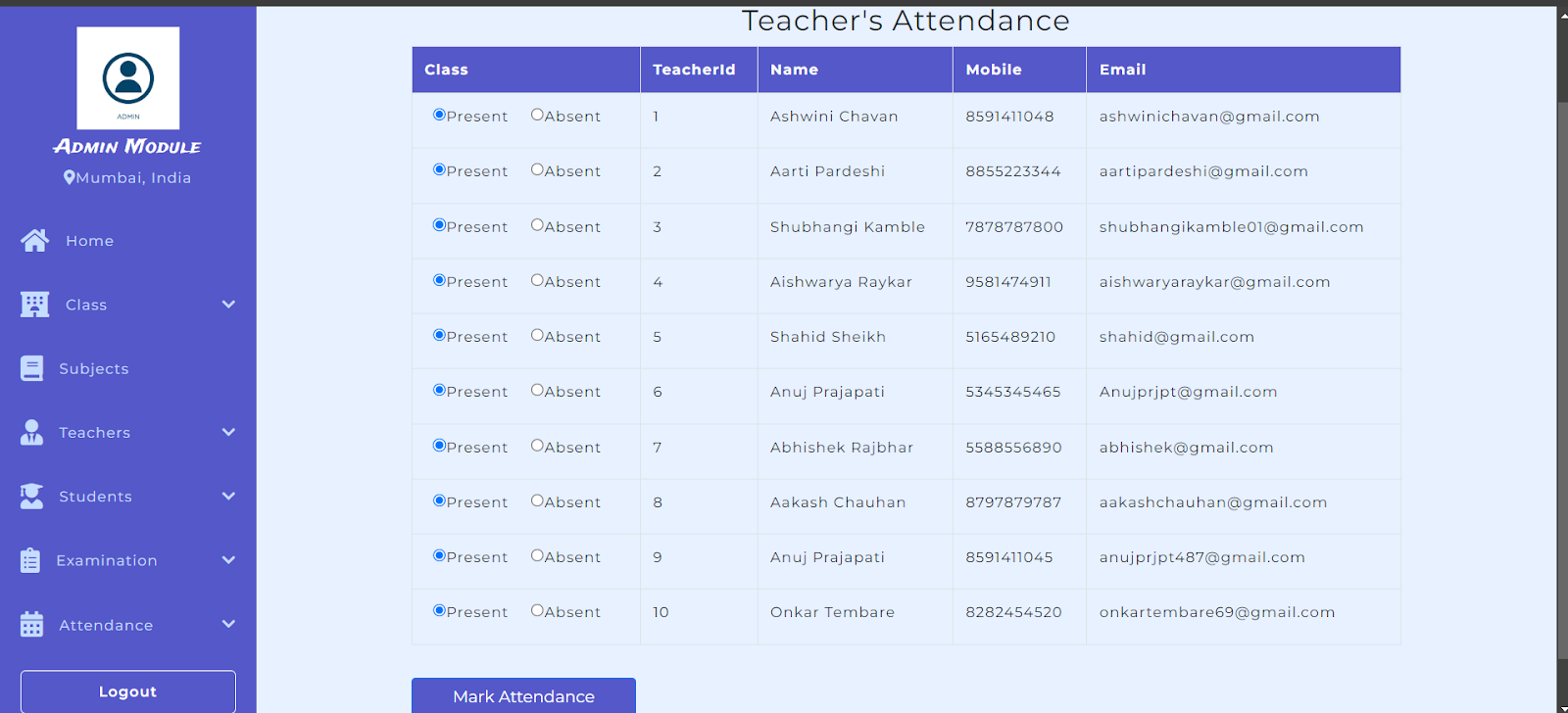
**Add Marks**



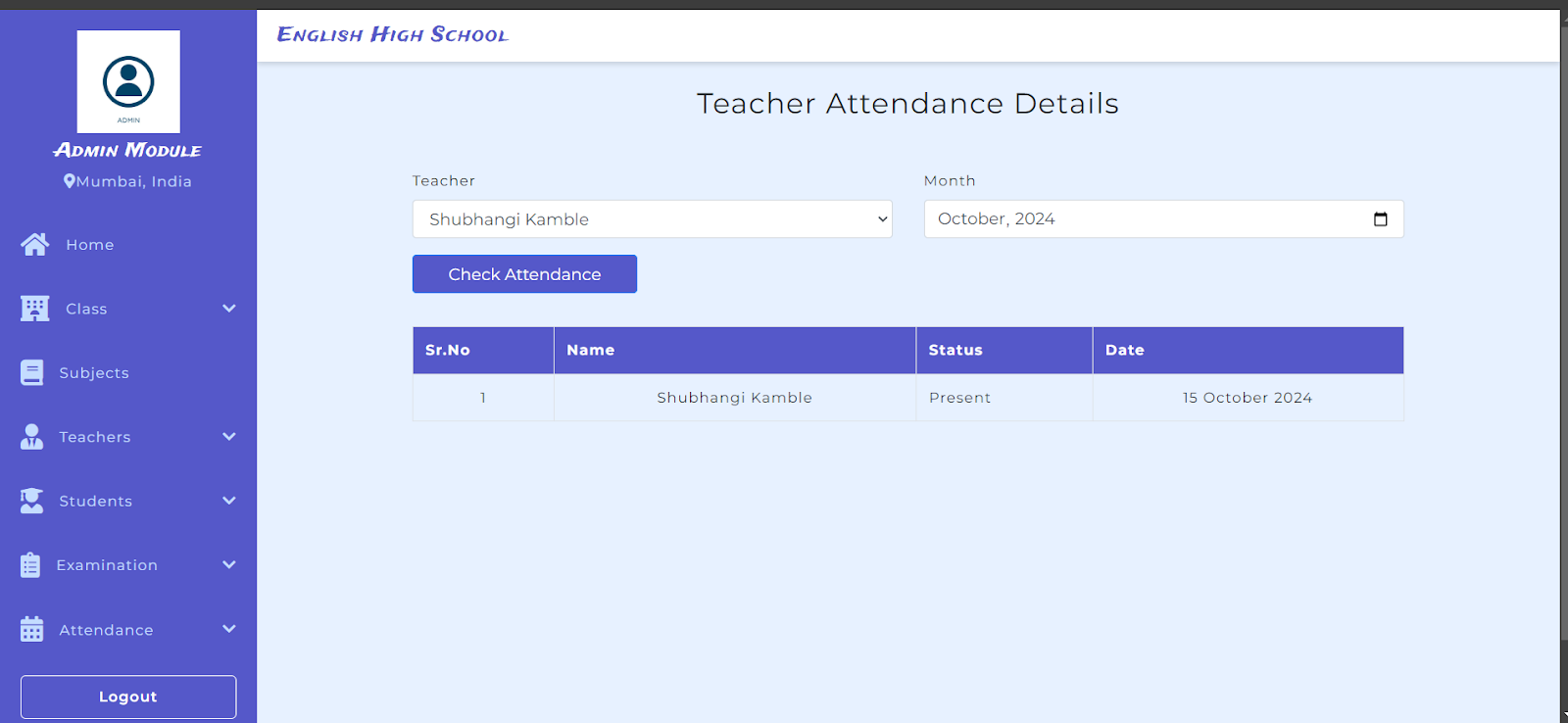
**Mark Details**



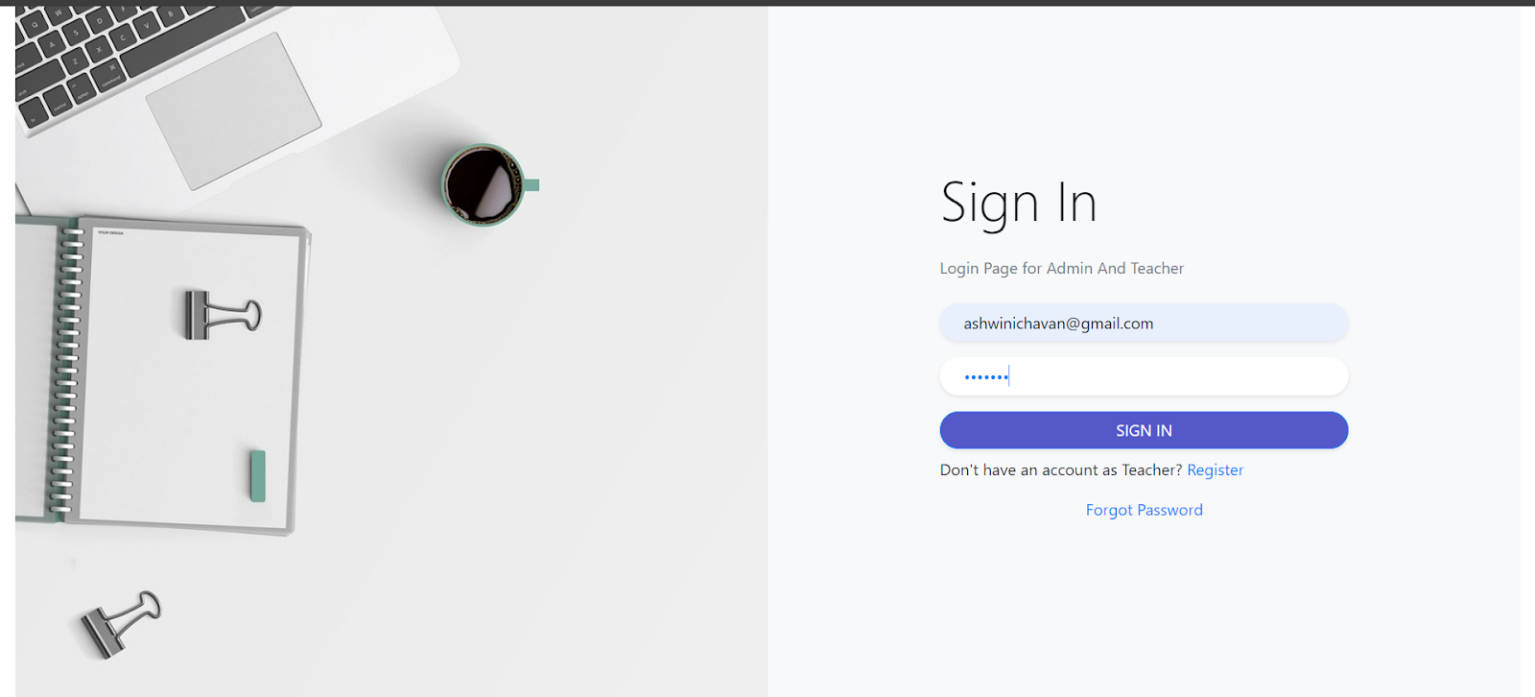
**Teacher Attendances**



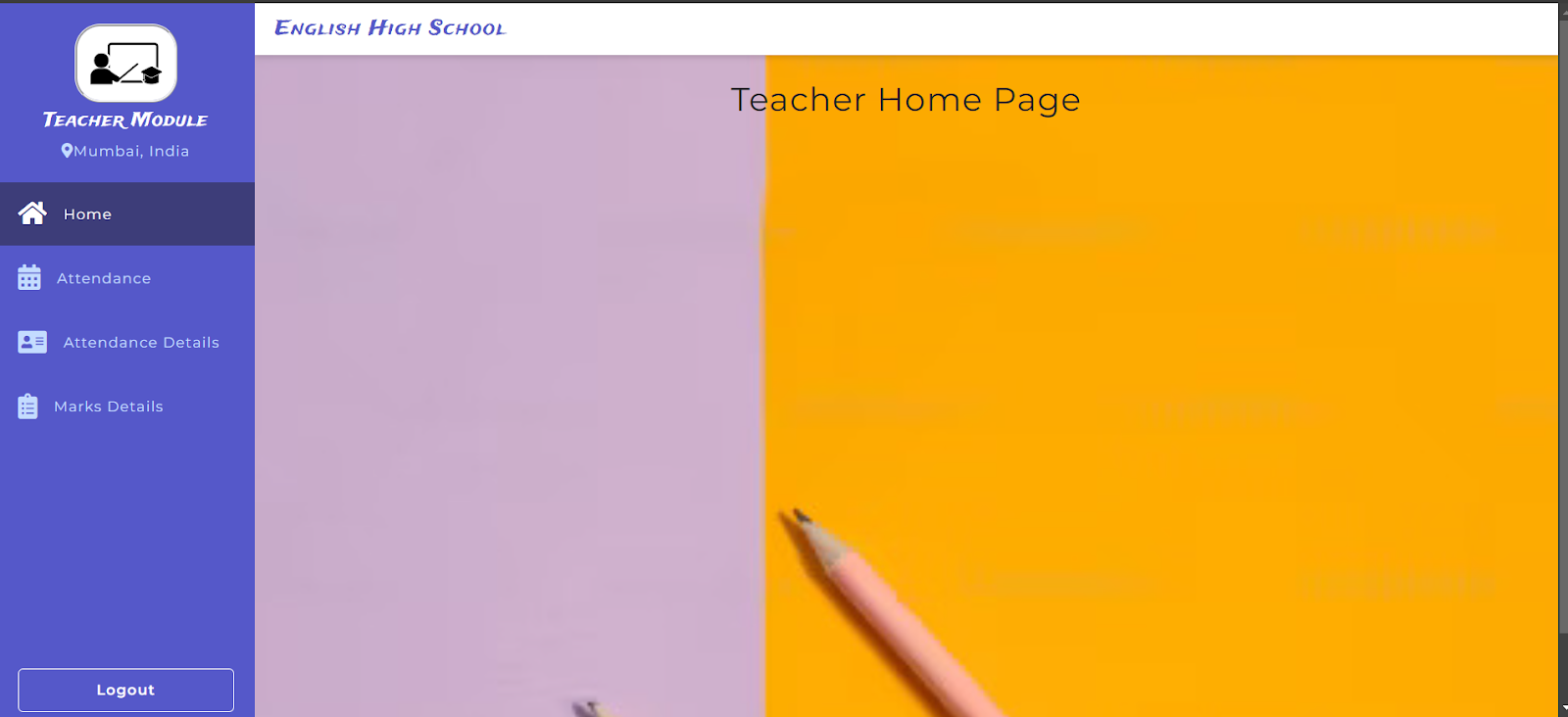
**Teacher attendance details**



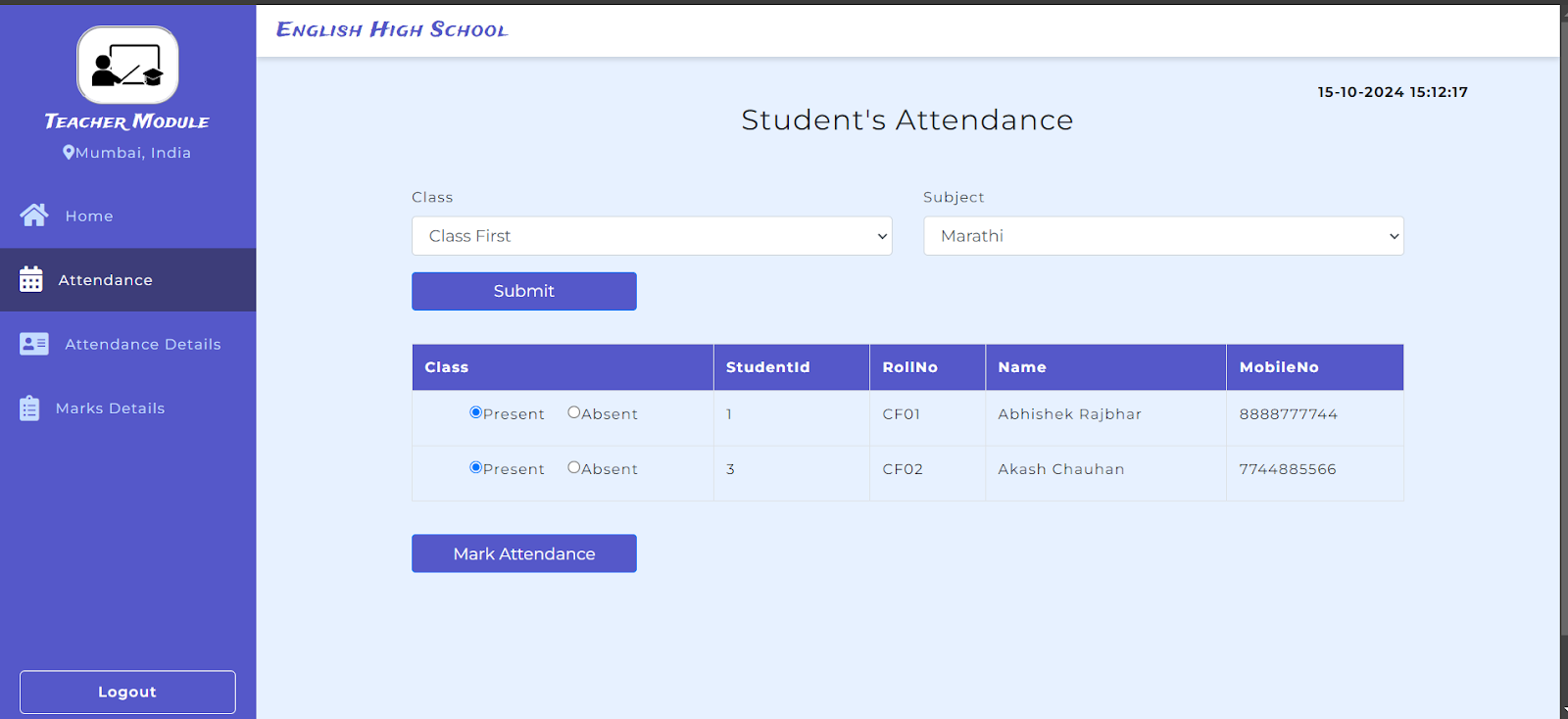
**Teacher login**



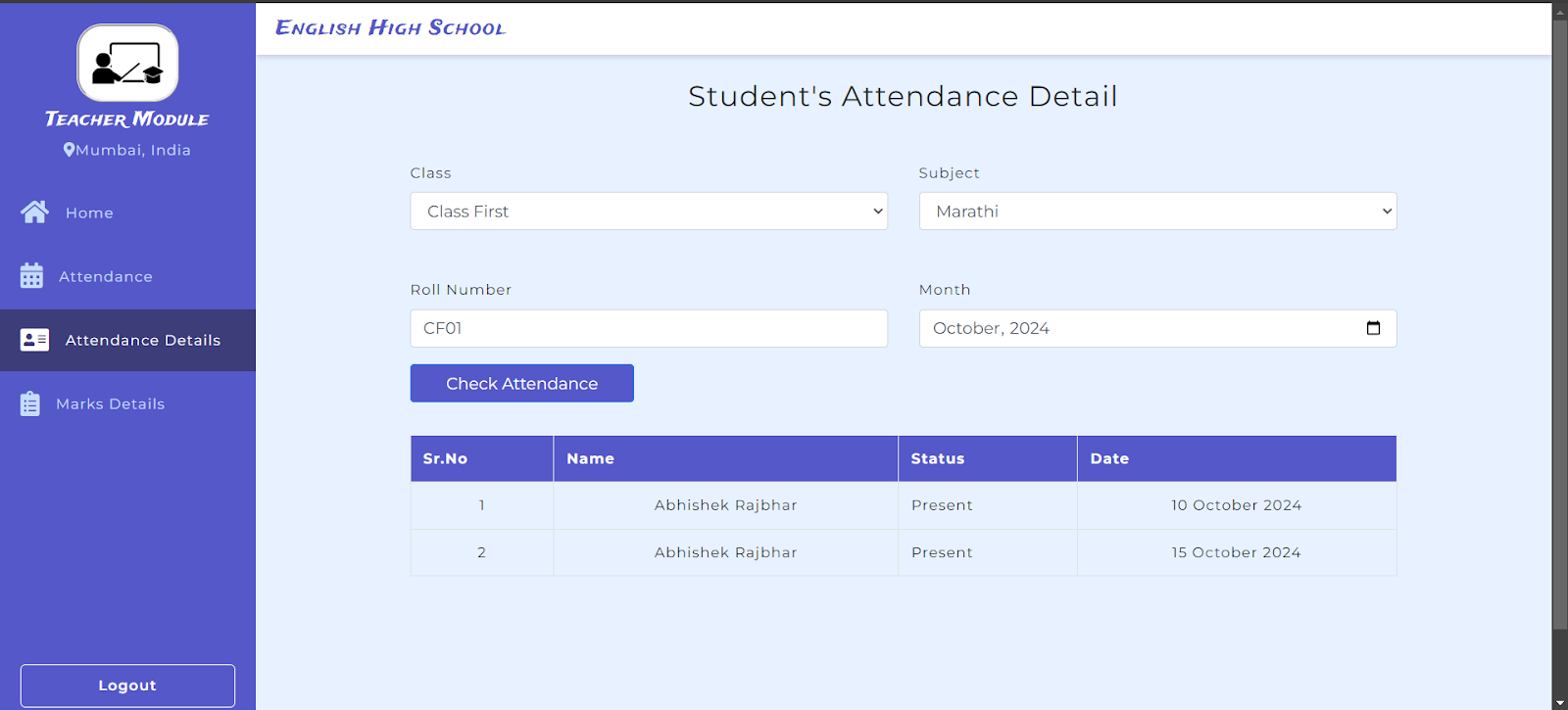
**Teacher Dashboard**



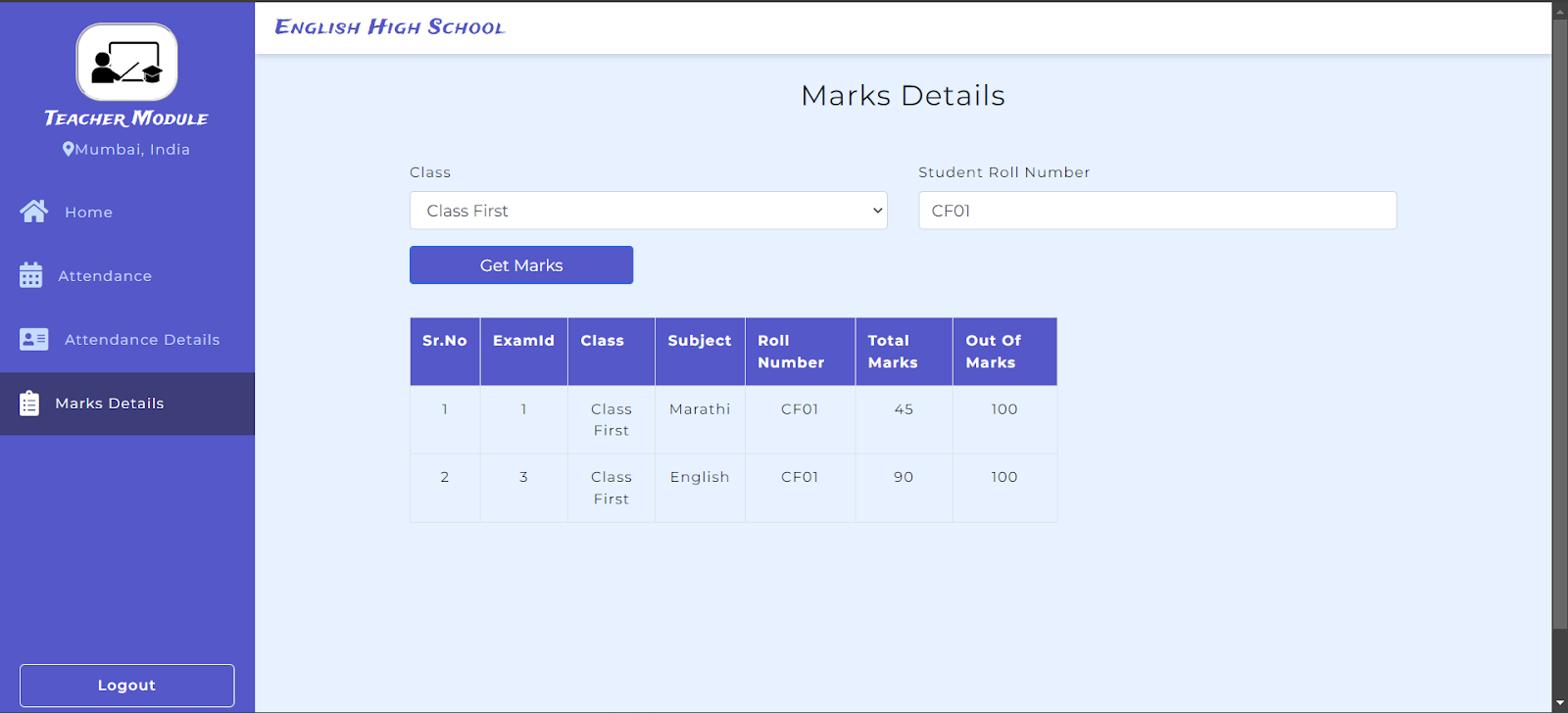
**Student Attendance**

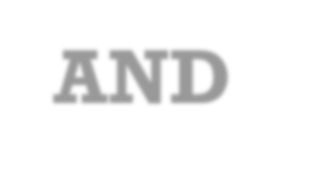
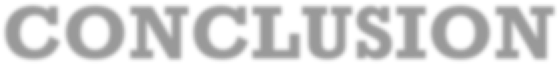


**Student Attendance details**



**Student Marks Details**





1. **Conclusion and Future Scope:**

## Conclusion:

The School Management System effectively streamlines various administrative and academic tasks within a school environment. By dividing the system into two core modules—**Admin** and **Teacher**—the system ensures that both administrative staff and teachers can carry out their responsibilities efficiently.

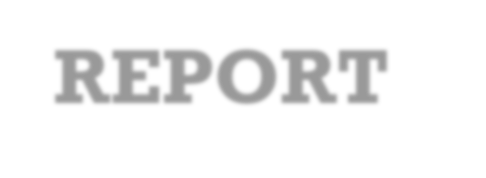
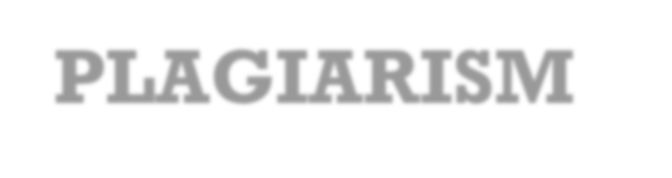
The **Admin module** facilitates critical school operations such as adding new classes, managing class fees, assigning subjects and teachers, tracking expenses, maintaining detailed student records, and monitoring both student and teacher attendance. Furthermore, it allows the admin to input and manage exam marks and attendance details, offering a comprehensive way to oversee the school’s academic and financial activities.

On the other hand, the **Teacher module** focuses on academic functionalities. Teachers can manage student attendance, view detailed attendance records, and access student marks through their dedicated dashboard. This module allows teachers to stay organized, ensuring that they have access to the necessary student information and performance data at their fingertips.

In conclusion, this system significantly reduces manual paperwork, enhances communication between the administration and teachers, and offers a structured way to manage day-to-day school operations. It improves accuracy, saves time, and provides a centralized platform for both teachers and the administration to collaborate efficiently.

## Future Scope :

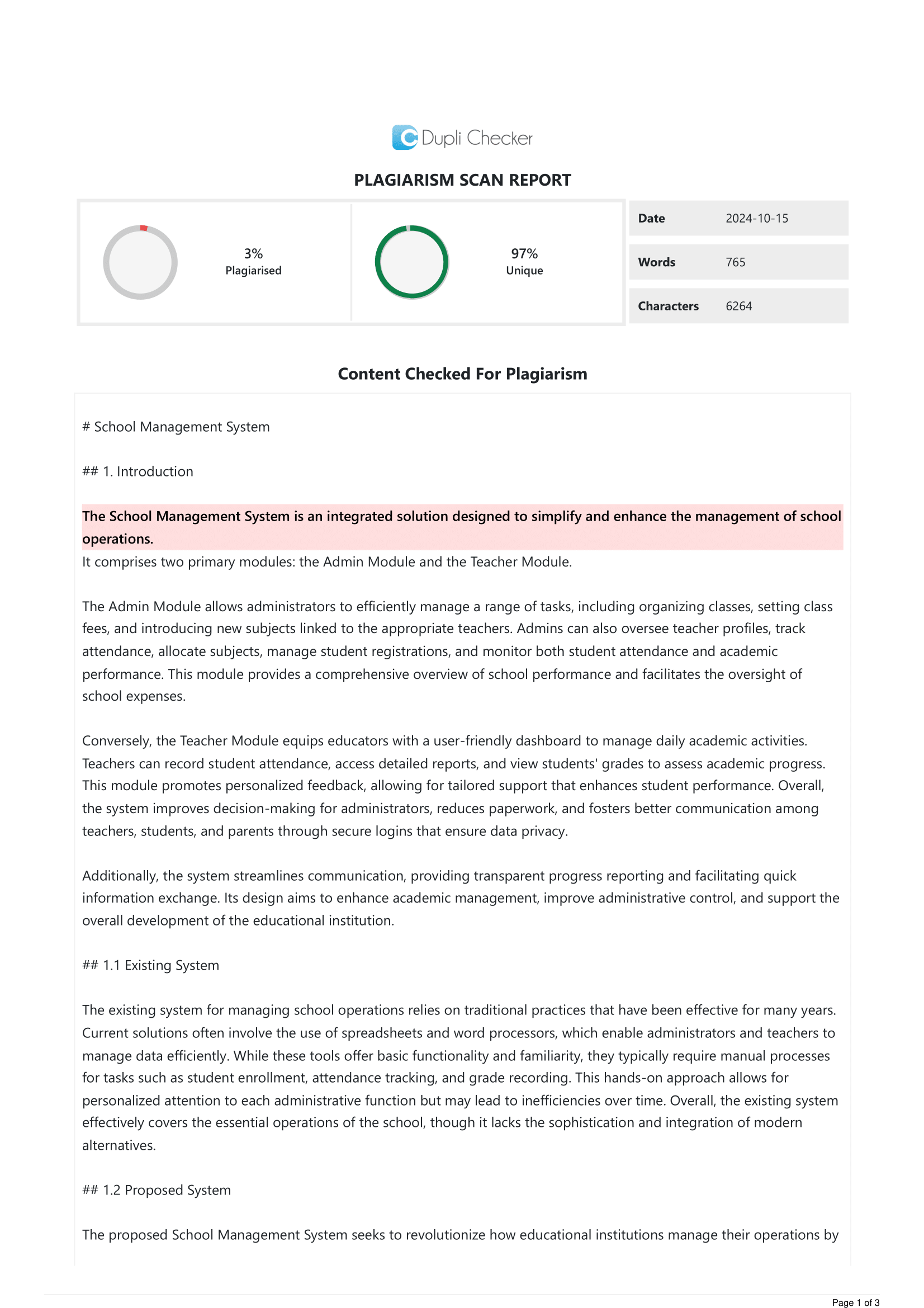
1. **Parent-Teacher Communication Portal**: Introduce a dedicated portal where parents and teachers can communicate directly. This can include features like messaging, announcements, and scheduling parent-teacher meetings.
2. **Mobile Application**: Develop a mobile-friendly version of the system, making it easier for teachers, students, and parents to access important information on the go.
3. **Automated Notifications**: Implement automated email or SMS notifications for attendance updates, exam schedules, fee reminders, and important announcements for students, teachers, and parents.
4. **Student Performance Analytics**: Add detailed analytics to track student progress over time, allowing teachers and parents to identify strengths and areas for improvement. This can include visual graphs, performance trends, and personalized improvement plans.
5. **Online Fee Payment**: Integrate an online fee payment system that enables parents to pay school fees securely, view payment history, and download receipts.
6. **Library Management**: Introduce a library management feature for tracking issued books, due dates, fines, and maintaining an inventory of available resources.
7. **E-Learning Integration**: Incorporate e-learning modules with access to study materials, video lessons, and online assignments, enabling a hybrid learning environment.

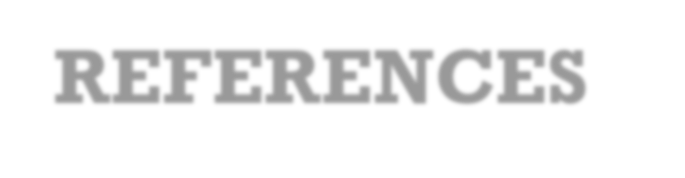


# PLAGIARISM REPORT

1. **Plagiarism Report:**

**<https://www.duplichecker.com/>**





# REFERENCES

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