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using System;
using System.Collections.Generic;
using System.Data;
using System.Data.Entity;
using System.Linq;
using System.Net;
using System.Web;
using System.Web.Mvc;
using SchoolStats.Data;
using SchoolStats.Models;

namespace SchoolStats.Controllers
{
    public class StudentsController : Controller
    {
        private SchoolStatsContext db = new SchoolStatsContext();

        // GET: Students
        public ActionResult Index()
        {
            return View(db.Students.ToList());
        }

        // GET: Students/Details/5
        public ActionResult Details(int? id)
        {
            if (id == null)
            {
                return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
            }
            Student student = db.Students.Find(id);
            if (student == null)
            {
                return HttpNotFound();
            }
            return View(student);
        }

        // GET: Students/Create
        public ActionResult Create()
        {
            return View();
        }

        // POST: Students/Create
        // To protect from overposting attacks, enable the specific properties you
        want to bind to, for
        // more details see https://go.microsoft.com/fwlink/?LinkId=317598.
        [HttpPost]
        [ValidateAntiForgeryToken]
        public ActionResult Create([Bind(Include =
"StudentId,StudentName,TotalMarks")] Student student)
        {
            if (ModelState.IsValid)
            {
                db.Students.Add(student);
                db.SaveChanges();
                return RedirectToAction("Index");
            }

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    }

    return View(student);
}
public ActionResult Stats()
{
    var viewModel = new StudentStatistics
    {
        StudentCount = db.Students.Count(),
        MaxMarkStudent = db.Students.OrderByDescending(s =>
s.TotalMarks).FirstOrDefault(),
        MinMarkStudent = db.Students.OrderBy(s =>
s.TotalMarks).FirstOrDefault(),
        StudentsWithLessThan50Marks = db.Students.Where(s => s.TotalMarks <
50).ToList(),
        AverageMark = Math.Round(db.Students.Average(s => s.TotalMarks), 2)
    };

    return View(viewModel);
}

// GET: Students/Edit/5
public ActionResult Edit(int? id)
{
    if (id == null)
    {
        return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
    }
    Student student = db.Students.Find(id);
    if (student == null)
    {
        return HttpNotFound();
    }
    return View(student);
}

// POST: Students/Edit/5
// To protect from overposting attacks, enable the specific properties you
want to bind to, for
// more details see https://go.microsoft.com/fwlink/?LinkId=317598.
[HttpPost]
[ValidateAntiForgeryToken]
public ActionResult Edit([Bind(Include =
"StudentId,StudentName,TotalMarks")] Student student)
{
    if (ModelState.IsValid)
    {
        db.Entry(student).State = EntityState.Modified;
        db.SaveChanges();
        return RedirectToAction("Index");
    }
    return View(student);
}

// GET: Students/Delete/5
public ActionResult Delete(int? id)
{

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        if (id == null)
        {
            return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
        }
        Student student = db.Students.Find(id);
        if (student == null)
        {
            return HttpNotFound();
        }
        return View(student);
    }

    // POST: Students/Delete/5
    [HttpPost, ActionName("Delete")]
    [ValidateAntiForgeryToken]
    public ActionResult DeleteConfirmed(int id)
    {
        Student student = db.Students.Find(id);
        db.Students.Remove(student);
        db.SaveChanges();
        return RedirectToAction("Index");
    }

    protected override void Dispose(bool disposing)
    {
        if (disposing)
        {
            db.Dispose();
        }
        base.Dispose(disposing);
    }
}

using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;

namespace SchoolStats.Models
{
    public class StudentStatistics
    {
        public int StudentCount { get; set; }
        public Student MaxMarkStudent { get; set; }
        public Student MinMarkStudent { get; set; }
        public List<Student> StudentsWithLessThan50Marks { get; set; }
        public double AverageMark { get; set; }
    }
}

using System;
using System.Collections.Generic;
using System.ComponentModel.DataAnnotations;
using System.Linq;
using System.Web;

namespace SchoolStats.Models
{

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public class Student
{
    [Key]
    public int StudentId { get; set; }
    [Required]
    public string StudentName { get; set; }
    public int TotalMarks { get; set; }
}
}

@model SchoolStats.Models.StudentStatistics

@{
    ViewBag.Title = "Stats";
}

<h2>Statistics</h2>

<p>
    @Html.ActionLink("Back to List", "Index")
</p>

<div>
    <h4>Student Statistics</h4>
    <hr />
    <dl class="dl-horizontal">
        <dt>
            Total Students
        </dt>
        <dd>
            @Model.StudentCount
        </dd>

        <dt>
            Student with Maximum Marks
        </dt>
        <dd>
            @Model.MaxMarkStudent.StudentName
            @Model.MaxMarkStudent.TotalMarks
        </dd>

        <dt>
            Student with Minimum Marks
        </dt>
        <dd>
            @Model.MinMarkStudent.StudentName
            @Model.MinMarkStudent.TotalMarks
        </dd>

        <dt>
            Students with Less than 50 Marks
        </dt>
        <dd>
            @foreach (var student in Model.StudentsWithLessThan50Marks)
            {
                <span>@student.StudentName </span>
                <span>@student.TotalMarks</span>
                <br />
            }
        </dd>
    </dl>
</div>

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        }
    </dd>

    <dt>
        Average Marks
    </dt>
    <dd>
        @Model.AverageMark
    </dd>
</dl>
</div>
```