

```

<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>@ViewBag.Title - My ASP.NET Application</title>
    @Styles.Render("~/Content/css")
    @Scripts.Render("~/bundles/modernizr")
</head>
<body>
    <nav class="navbar navbar-expand-sm navbar-toggleable-sm navbar-dark bg-dark">
        <div class="container">
            @Html.ActionLink("Application name", "Index", "Home", new { area = "" },
new { @class = "navbar-brand" })
            <button type="button" class="navbar-toggler" data-bs-toggle="collapse"
data-bs-target=".navbar-collapse" title="Toggle navigation" aria-
controls="navbarSupportedContent"
                aria-expanded="false" aria-label="Toggle navigation">
                <span class="navbar-toggler-icon"></span>
            </button>
            <div class="collapse navbar-collapse d-sm-inline-flex justify-content-
between">
                <ul class="navbar-nav flex-grow-1">
                    <li>@Html.ActionLink("Home", "Index", "Home", new { area = "" },
new { @class = "nav-link" })</li>
                    <li>@Html.ActionLink("Students", "Index", "Students", new { area
= "" }, new { @class = "nav-link" })</li>
                    <li>@Html.ActionLink("Marks", "Index", "Marks", new { area = ""
}, new { @class = "nav-link" })</li>
                    <li>@Html.ActionLink("Statistics", "Statistics", "Students", new
{ area = "" }, new { @class = "nav-link" })</li>
                    <li>@Html.ActionLink("About", "About", "Home", new { area = ""
}, new { @class = "nav-link" })</li>
                    <li>@Html.ActionLink("Contact", "Contact", "Home", new { area =
"" }, new { @class = "nav-link" })</li>
                </ul>
            </div>
        </div>
    </nav>
    <div class="container body-content">
        @RenderBody()
        <hr />
        <footer>
            <p>&copy; @DateTime.Now.Year - My ASP.NET Application</p>
        </footer>
    </div>

    @Scripts.Render("~/bundles/jquery")
    @Scripts.Render("~/bundles/bootstrap")
    @RenderSection("scripts", required: false)
</body>
</html>
using System;
using System.Collections.Generic;
using System.Linq;
using System.Web;

namespace MVCStatisticsMarks.Models

```

```

{
    public class StatisticsViewModel
    {
        public double AverageScore { get; set; }
        public double HighestScore { get; set; }
        public double LowestScore { get; set; }
    }
}

@model MVCStatisticsMarks.Models.StatisticsViewModel

@{
    ViewBag.Title = "Statistics";
}

<h2>Statistics</h2>
<div>
    <p>Average Score: @Model.AverageScore</p>
    <p>Highest Score: @Model.HighestScore</p>
    <p>Lowest Score: @Model.LowestScore</p>
</div>

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 MVCStatisticsMarks.Models;

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

        // 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 =
"Id,FirstName,LastName,DateOfBirth,Gender,Address")] Student student)
{
    if (ModelState.IsValid)
    {
        db.Students.Add(student);
        db.SaveChanges();
        return RedirectToAction("Index");
    }

    return View(student);
}

// 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 =
"Id,FirstName,LastName,DateOfBirth,Gender,Address")] 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)
{
    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);
}

public ActionResult Statistics()
{
    var students = db.Students.Include(s => s.Marks).ToList();

    // Calculate the average score for all students
    double averageScore = students.Average(s => s.Marks.Sum(m => m.Score));

    // Calculate the highest score among all students
    double highestScore = students.Max(s => s.Marks.Max(m => m.Score));

    // Calculate the lowest score among all students
    double lowestScore = students.Min(s => s.Marks.Min(m => m.Score));

    // Create a StatisticsViewModel to pass the calculated values to the
view
    var model = new StatisticsViewModel
    {
        AverageScore = averageScore,
        HighestScore = highestScore,
        LowestScore = lowestScore
    };

    return View(model);
}

```

```

    }
}
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 MVCStatisticsMarks.Models;

namespace MVCStatisticsMarks.Controllers
{
    public class MarksController : Controller
    {
        private MVCSchoolDbEntities db = new MVCSchoolDbEntities();

        // GET: Marks
        public ActionResult Index()
        {
            var marks = db.Marks.Include(m => m.Student);
            return View(marks.ToList());
        }

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

        // GET: Marks/Create
        public ActionResult Create()
        {
            ViewBag.StudentId = new SelectList(db.Students, "Id", "FirstName");
            return View();
        }

        // POST: Marks/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 = "Id,StudentId,Score")] Mark mark)
        {
            if (ModelState.IsValid)
            {

```

```

        db.Marks.Add(mark);
        db.SaveChanges();
        return RedirectToAction("Index");
    }

    ViewBag.StudentId = new SelectList(db.Students, "Id", "FirstName",
mark.StudentId);
    return View(mark);
}

// GET: Marks/Edit/5
public ActionResult Edit(int? id)
{
    if (id == null)
    {
        return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
    }
    Mark mark = db.Marks.Find(id);
    if (mark == null)
    {
        return HttpNotFound();
    }
    ViewBag.StudentId = new SelectList(db.Students, "Id", "FirstName",
mark.StudentId);
    return View(mark);
}

// POST: Marks/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 = "Id,StudentId,Score")] Mark mark)
{
    if (ModelState.IsValid)
    {
        db.Entry(mark).State = EntityState.Modified;
        db.SaveChanges();
        return RedirectToAction("Index");
    }
    ViewBag.StudentId = new SelectList(db.Students, "Id", "FirstName",
mark.StudentId);
    return View(mark);
}

// GET: Marks/Delete/5
public ActionResult Delete(int? id)
{
    if (id == null)
    {
        return new HttpStatusCodeResult(HttpStatusCode.BadRequest);
    }
    Mark mark = db.Marks.Find(id);
    if (mark == null)
    {
        return HttpNotFound();
    }
}

```

```

        return View(mark);
    }

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

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

```