**SOURCE CODE**

**Students Controllers:**

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 Application\_to\_Manage\_Data\_for\_School\_Application.Models;

namespace Application\_to\_Manage\_Data\_for\_School\_Application.Controllers

{

public class StudentsController : Controller

{

private Rain\_SchoolEntities db = new Rain\_SchoolEntities();

// GET: Students

public ActionResult Index()

{

var students = db.Students.Include(s => s.Class).Include(s => s.Subject);

return View(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()

{

ViewBag.class\_id = new SelectList(db.Classes, "class\_id", "class\_name");

ViewBag.subject\_id = new SelectList(db.Subjects, "subject\_id", "subject\_name");

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 = "student\_id,student\_name,class\_id,subject\_id")] Student student)

{

if (ModelState.IsValid)

{

db.Students.Add(student);

db.SaveChanges();

return RedirectToAction("Index");

}

ViewBag.class\_id = new SelectList(db.Classes, "class\_id", "class\_name", student.class\_id);

ViewBag.subject\_id = new SelectList(db.Subjects, "subject\_id", "subject\_name", student.subject\_id);

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();

}

ViewBag.class\_id = new SelectList(db.Classes, "class\_id", "class\_name", student.class\_id);

ViewBag.subject\_id = new SelectList(db.Subjects, "subject\_id", "subject\_name", student.subject\_id);

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 = "student\_id,student\_name,class\_id,subject\_id")] Student student)

{

if (ModelState.IsValid)

{

db.Entry(student).State = EntityState.Modified;

db.SaveChanges();

return RedirectToAction("Index");

}

ViewBag.class\_id = new SelectList(db.Classes, "class\_id", "class\_name", student.class\_id);

ViewBag.subject\_id = new SelectList(db.Subjects, "subject\_id", "subject\_name", student.subject\_id);

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);

}

}

}

**Subject Controllers:**

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 Application\_to\_Manage\_Data\_for\_School\_Application.Models;

namespace Application\_to\_Manage\_Data\_for\_School\_Application.Controllers

{

public class SubjectsController : Controller

{

private Rain\_SchoolEntities db = new Rain\_SchoolEntities();

// GET: Subjects

public ActionResult Index()

{

var subjects = db.Subjects.Include(s => s.Class);

return View(subjects.ToList());

}

// GET: Subjects/Details/5

public ActionResult Details(int? id)

{

if (id == null)

{

return new HttpStatusCodeResult(HttpStatusCode.BadRequest);

}

Subject subject = db.Subjects.Find(id);

if (subject == null)

{

return HttpNotFound();

}

return View(subject);

}

// GET: Subjects/Create

public ActionResult Create()

{

ViewBag.class\_id = new SelectList(db.Classes, "class\_id", "class\_name");

return View();

}

// POST: Subjects/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 = "subject\_id,subject\_name,class\_id")] Subject subject)

{

if (ModelState.IsValid)

{

db.Subjects.Add(subject);

db.SaveChanges();

return RedirectToAction("Index");

}

ViewBag.class\_id = new SelectList(db.Classes, "class\_id", "class\_name", subject.class\_id);

return View(subject);

}

// GET: Subjects/Edit/5

public ActionResult Edit(int? id)

{

if (id == null)

{

return new HttpStatusCodeResult(HttpStatusCode.BadRequest);

}

Subject subject = db.Subjects.Find(id);

if (subject == null)

{

return HttpNotFound();

}

ViewBag.class\_id = new SelectList(db.Classes, "class\_id", "class\_name", subject.class\_id);

return View(subject);

}

// POST: Subjects/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 = "subject\_id,subject\_name,class\_id")] Subject subject)

{

if (ModelState.IsValid)

{

db.Entry(subject).State = EntityState.Modified;

db.SaveChanges();

return RedirectToAction("Index");

}

ViewBag.class\_id = new SelectList(db.Classes, "class\_id", "class\_name", subject.class\_id);

return View(subject);

}

// GET: Subjects/Delete/5

public ActionResult Delete(int? id)

{

if (id == null)

{

return new HttpStatusCodeResult(HttpStatusCode.BadRequest);

}

Subject subject = db.Subjects.Find(id);

if (subject == null)

{

return HttpNotFound();

}

return View(subject);

}

// POST: Subjects/Delete/5

[HttpPost, ActionName("Delete")]

[ValidateAntiForgeryToken]

public ActionResult DeleteConfirmed(int id)

{

Subject subject = db.Subjects.Find(id);

db.Subjects.Remove(subject);

db.SaveChanges();

return RedirectToAction("Index");

}

protected override void Dispose(bool disposing)

{

if (disposing)

{

db.Dispose();

}

base.Dispose(disposing);

}

}

}

**Classes Controllers:**

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 Application\_to\_Manage\_Data\_for\_School\_Application.Models;

namespace Application\_to\_Manage\_Data\_for\_School\_Application.Controllers

{

public class ClassesController : Controller

{

private Rain\_SchoolEntities db = new Rain\_SchoolEntities();

// GET: Classes

public ActionResult Index()

{

return View(db.Classes.ToList());

}

// GET: Classes/Details/5

public ActionResult Details(int? id)

{

if (id == null)

{

return new HttpStatusCodeResult(HttpStatusCode.BadRequest);

}

Class @class = db.Classes.Find(id);

if (@class == null)

{

return HttpNotFound();

}

return View(@class);

}

// GET: Classes/Create

public ActionResult Create()

{

return View();

}

// POST: Classes/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 = "class\_id,class\_name")] Class @class)

{

if (ModelState.IsValid)

{

db.Classes.Add(@class);

db.SaveChanges();

return RedirectToAction("Index");

}

return View(@class);

}

// GET: Classes/Edit/5

public ActionResult Edit(int? id)

{

if (id == null)

{

return new HttpStatusCodeResult(HttpStatusCode.BadRequest);

}

Class @class = db.Classes.Find(id);

if (@class == null)

{

return HttpNotFound();

}

return View(@class);

}

// POST: Classes/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 = "class\_id,class\_name")] Class @class)

{

if (ModelState.IsValid)

{

db.Entry(@class).State = EntityState.Modified;

db.SaveChanges();

return RedirectToAction("Index");

}

return View(@class);

}

// GET: Classes/Delete/5

public ActionResult Delete(int? id)

{

if (id == null)

{

return new HttpStatusCodeResult(HttpStatusCode.BadRequest);

}

Class @class = db.Classes.Find(id);

if (@class == null)

{

return HttpNotFound();

}

return View(@class);

}

// POST: Classes/Delete/5

[HttpPost, ActionName("Delete")]

[ValidateAntiForgeryToken]

public ActionResult DeleteConfirmed(int id)

{

Class @class = db.Classes.Find(id);

db.Classes.Remove(@class);

db.SaveChanges();

return RedirectToAction("Index");

}

protected override void Dispose(bool disposing)

{

if (disposing)

{

db.Dispose();

}

base.Dispose(disposing);

}

}

}

**SQL CODE:**

CREATE DATABASE Rain\_School

use Rain\_School

CREATE TABLE Classes (

class\_id INT PRIMARY KEY,

class\_name VARCHAR(50) NOT NULL

)

insert into Classes values (1,'7th'),(2,'8th')

CREATE TABLE Subject (

subject\_id INT PRIMARY KEY,

subject\_name VARCHAR(50) NOT NULL,

class\_id INT,

FOREIGN KEY (class\_id) REFERENCES Classes (class\_id)

)

insert into Subject values (1,'Science',2),(2,'Mathematics',1)

CREATE TABLE Student (

student\_id INT PRIMARY KEY,

student\_name VARCHAR(50) NOT NULL,

class\_id INT,

subject\_id INT,

FOREIGN KEY (class\_id) REFERENCES Classes (class\_id),

FOREIGN KEY (subject\_id) REFERENCES Subject (subject\_id)

)

insert into Student values (1,'Anudeep',2,1),(2,'Yednesh',1,2)

select \* from Student