Source Code

Marks Controller

using System;

using System.Collections.Generic;

using System.Data;

using System.Data.Entity;

using System.Data.Entity.Infrastructure;

using System.Linq;

using System.Net;

using System.Net.Http;

using System.Web.Http;

using System.Web.Http.Description;

using SchoolWebApi.Models;

namespace SchoolWebApi.Controllers

{

public class MarksController : ApiController

{

private marksEntities db = new marksEntities();

// GET: api/Marks

public IQueryable<Mark> GetMarks()

{

return db.Marks;

}

// GET: api/Marks/5

[ResponseType(typeof(Mark))]

public IHttpActionResult GetMark(int id)

{

Mark mark = db.Marks.Find(id);

if (mark == null)

{

return NotFound();

}

return Ok(mark);

}

// PUT: api/Marks/5

[ResponseType(typeof(void))]

public IHttpActionResult PutMark(int id, Mark mark)

{

if (!ModelState.IsValid)

{

return BadRequest(ModelState);

}

if (id != mark.MId)

{

return BadRequest();

}

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

try

{

db.SaveChanges();

}

catch (DbUpdateConcurrencyException)

{

if (!MarkExists(id))

{

return NotFound();

}

else

{

throw;

}

}

return StatusCode(HttpStatusCode.NoContent);

}

// POST: api/Marks

[ResponseType(typeof(Mark))]

public IHttpActionResult PostMark(Mark mark)

{

if (!ModelState.IsValid)

{

return BadRequest(ModelState);

}

db.Marks.Add(mark);

try

{

db.SaveChanges();

}

catch (DbUpdateException)

{

if (MarkExists(mark.MId))

{

return Conflict();

}

else

{

throw;

}

}

return CreatedAtRoute("DefaultApi", new { id = mark.MId }, mark);

}

// DELETE: api/Marks/5

[ResponseType(typeof(Mark))]

public IHttpActionResult DeleteMark(int id)

{

Mark mark = db.Marks.Find(id);

if (mark == null)

{

return NotFound();

}

db.Marks.Remove(mark);

db.SaveChanges();

return Ok(mark);

}

protected override void Dispose(bool disposing)

{

if (disposing)

{

db.Dispose();

}

base.Dispose(disposing);

}

private bool MarkExists(int id)

{

return db.Marks.Count(e => e.MId == id) > 0;

}

}

}

Classes Model

namespace SchoolWebApi.Models

{

using System;

using System.Collections.Generic;

public partial class Mark

{

public int MId { get; set; }

public Nullable<int> StudentId { get; set; }

public Nullable<int> English { get; set; }

public Nullable<int> SocialScience { get; set; }

public Nullable<int> Science { get; set; }

public Nullable<int> Mathematics { get; set; }

public virtual Student Student { get; set; }

}

}

There are similar classes for Students with similar code. Please refer to the github link in WriteUp for the remainder of the code that is fully pushed.