

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.