using System;

using System.Collections.Generic;

using System.Linq;

using System.Net;

using System.Net.Http;

using System.Web.Http;

using WebApi\_Demo.Models;

namespace WebApi\_Demo.Controllers

{

public class StudentsController : ApiController

{

static List<Student> \_studentList = null;

void Initialize()

{

\_studentList = new List<Student>()

{

new Student() { StudentId=1, Name="Ajay" , Batch="B001", Marks=89, DateOfBirth=Convert.ToDateTime("12/12/2020")},

new Student() { StudentId=2, Name="Deepak" , Batch="B002", Marks=78, DateOfBirth=Convert.ToDateTime("10/06/2020")},

};

}

public StudentsController()

{

if (\_studentList == null)

{

Initialize();

}

}

// GET: api/Students

public List<Student> Get()

{

return \_studentList;

}

// GET: api/Students/5

public Student Get(int id)

{

Student student = \_studentList.FirstOrDefault(x => x.StudentId == id);

return student;

}

// POST: api/Students

public void Post(Student student)

{

if(student != null)

{

\_studentList.Add(student);

}

}

// PUT: api/Students/5

public void Put(int id, Student objStudent)

{

Student student = \_studentList.Where(x => x.StudentId == id).FirstOrDefault();

if (student != null)

{

foreach (Student temp in \_studentList)

{

if (temp.StudentId == id)

{

temp.Name = objStudent.Name;

temp.DateOfBirth = objStudent.DateOfBirth;

temp.Batch = objStudent.Batch;

temp.Marks = objStudent.Marks;

}

}

}

}

// DELETE: api/Students/5

public void Delete(int id)

{

}

}

}

**Using HttpResponseMessage**

using System;

using System.Collections.Generic;

using System.Linq;

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new Student() { StudentId=2, Name="Deepak" , Batch="B002", Marks=78, DateOfBirth=Convert.ToDateTime("10/06/2020")},

};

}

public StudentsController()

{

if (\_studentList == null)

{

Initialize();

}

}

// GET: api/Students

public HttpResponseMessage Get()

{

return Request.CreateResponse(HttpStatusCode.OK, \_studentList);

}

// GET: api/Students/5

public HttpResponseMessage Get(int id)

{

Student student = \_studentList.FirstOrDefault(x => x.StudentId == id);

if (student == null)

return Request.CreateErrorResponse(HttpStatusCode.NotFound, "Student Not found");

else

return Request.CreateResponse(HttpStatusCode.OK, student);

}

// POST: api/Students

public HttpResponseMessage Post(Student student)

{

if (student != null)

{

\_studentList.Add(student);

}

return Request.CreateResponse(HttpStatusCode.Created);

}

// PUT: api/Students/5

public HttpResponseMessage Put(int id, Student objStudent)

{

Student student = \_studentList.Where(x => x.StudentId == id).FirstOrDefault();

if (student == null)

{

return Request.CreateErrorResponse(HttpStatusCode.NotFound, "STudent Not found");

}

else

{

if (student != null)

{

foreach (Student temp in \_studentList)

{

if (temp.StudentId == id)

{

temp.Name = objStudent.Name;

temp.DateOfBirth = objStudent.DateOfBirth;

temp.Batch = objStudent.Batch;

temp.Marks = objStudent.Marks;

}

}

}

return Request.CreateResponse(HttpStatusCode.OK, "Modified");

}

}

// DELETE: api/Students/5

public HttpResponseMessage Delete(int id)

{

Student student = \_studentList.Where(x => x.StudentId == id).FirstOrDefault();

if (student == null)

{

return Request.CreateErrorResponse(HttpStatusCode.NotFound, "STudent Not found");

}

else

{

if (student != null)

{

\_studentList.Remove(student);

}

return Request.CreateResponse(HttpStatusCode.OK, "Deleteed");

}

}

}

}

**Using** IHttpActionResult

using System;

using System.Collections.Generic;

using System.Linq;

using System.Net;

using System.Net.Http;

using System.Web.Http;

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new Student() { StudentId=2, Name="Deepak" , Batch="B002", Marks=78, DateOfBirth=Convert.ToDateTime("10/06/2020")},

};

}

public StudentsController()

{

if (\_studentList == null)

{

Initialize();

}

}

// GET: api/Students

public IHttpActionResult Get()

{

return Ok(\_studentList);

//return Request.CreateResponse(HttpStatusCode.OK, \_studentList);

}

// GET: api/Students/5

public IHttpActionResult Get(int id)

{

Student student = \_studentList.FirstOrDefault(x => x.StudentId == id);

if (student == null)

{

return NotFound();

//return Request.CreateErrorResponse(HttpStatusCode.NotFound, "Student not found");

}

else

{

return Ok(student);

// return Request.CreateResponse(HttpStatusCode.Found, student);

}

}

// POST: api/Students

public IHttpActionResult Post(Student student)

{

if (student != null)

{

\_studentList.Add(student);

}

return Content(HttpStatusCode.Created, "Record Created");

// return Request.CreateResponse(HttpStatusCode.Created, "Record inserted");

}

// PUT: api/Students/5

public IHttpActionResult Put(int id, Student objStudent)

{

Student student = \_studentList.Where(x => x.StudentId == id).FirstOrDefault();

if (student == null)

{

return NotFound();

// return Request.CreateErrorResponse(HttpStatusCode.NotFound, "Student not found");

}

else

{

if (student != null)

{

foreach (Student temp in \_studentList)

{

if (temp.StudentId == id)

{

temp.Name = objStudent.Name;

temp.DateOfBirth = objStudent.DateOfBirth;

temp.Batch = objStudent.Batch;

temp.Marks = objStudent.Marks;

}

}

}

return Content(HttpStatusCode.OK, "Record Modified");

// return Request.CreateResponse(HttpStatusCode.OK, "Record modified");

}

}

// DELETE: api/Students/5

public IHttpActionResult Delete(int? id)

{

if (id != null)

{

Student student = \_studentList.FirstOrDefault(x => x.StudentId == id);

if (student == null)

{

return NotFound();

// return Request.CreateErrorResponse(HttpStatusCode.NotFound, "Student not found");

}

else

{

\_studentList.Remove(student);

return Content(HttpStatusCode.OK, "Record deleted");

// return Request.CreateResponse(HttpStatusCode.OK, "Record Deleted");

}

}

else

{

return Content(HttpStatusCode.BadRequest, "Please provide ID");

// return Request.CreateErrorResponse(HttpStatusCode.BadRequest, "Please provide id");

}

}

}

}