

## Source Code for Create an ASP.NET WEB API Application to Add Subject Marks to Students and View Their Marks

### Subject.cs:

```
namespace PracticeProject9.Models
{
    public class Subject
    {
        public int Id { get; set; }
        public int StudentId { get; set; }
        public string StudentName { get; set; }

        public int SubjectId { get; set; }
        public string SubjectName { get; set; }

        public int SubjectMark { get; set; }
    }
}
```

### SubjectContreollers:

```
using System;
using System.Collections.Generic;
using System.Linq;
using System.Threading.Tasks;
using Microsoft.AspNetCore.Http;
using Microsoft.AspNetCore.Mvc;
using Microsoft.EntityFrameworkCore;
using PracticeProject9.Data;
using PracticeProject9.Models;

namespace PracticeProject9.Controllers
{
    [Route("api/[controller]")]
    [ApiController]
    public class SubjectsController : ControllerBase
    {
        private readonly SubjectDbContext _context;

        public SubjectsController(SubjectDbContext context)
        {
            _context = context;
        }

        // GET: api/Subjects
        [HttpGet]
        public async Task<ActionResult<IEnumerable<Subject>>> GetSubject()
        {
            if (_context.Subject == null)
            {
                return NotFound();
            }
            return await _context.Subject.ToListAsync();
        }
    }
}
```

```

// GET: api/Subjects/5
[HttpGet("{id}")]
public async Task<ActionResult<Subject>> GetSubject(int id)
{
    if (_context.Subject == null)
    {
        return NotFound();
    }
    var subject = await _context.Subject.FindAsync(id);

    if (subject == null)
    {
        return NotFound();
    }

    return subject;
}

// PUT: api/Subjects/5
// To protect from overposting attacks, see https://go.microsoft.com/fwlink/?linkid=2123754
[HttpPut("{id}")]
public async Task<IActionResult> PutSubject(int id, Subject subject)
{
    if (id != subject.Id)
    {
        return BadRequest();
    }

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

    try
    {
        await _context.SaveChangesAsync();
    }
    catch (DbUpdateConcurrencyException)
    {
        if (!SubjectExists(id))
        {
            return NotFound();
        }
        else
        {
            throw;
        }
    }

    return NoContent();
}

// POST: api/Subjects
// To protect from overposting attacks, see https://go.microsoft.com/fwlink/?linkid=2123754
[HttpPost]
public async Task<ActionResult<Subject>> PostSubject(Subject subject)
{
    if (_context.Subject == null)
    {
        return Problem("Entity set 'SubjectDbContext.Subject' is null.");
    }
    _context.Subject.Add(subject);

```

```

        await _context.SaveChangesAsync();

        return CreatedAtAction("GetSubject", new { id = subject.Id }, subject);
    }

    // DELETE: api/Subjects/5
    [HttpDelete("{id}")]
    public async Task<IActionResult> DeleteSubject(int id)
    {
        if (_context.Subject == null)
        {
            return NotFound();
        }
        var subject = await _context.Subject.FindAsync(id);
        if (subject == null)
        {
            return NotFound();
        }

        _context.Subject.Remove(subject);
        await _context.SaveChangesAsync();

        return NoContent();
    }

    private bool SubjectExists(int id)
    {
        return (_context.Subject?.Any(e => e.Id == id)).GetValueOrDefault();
    }
}

```