```
Student.cs
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```
using System.ComponentModel.DataAnnotations;
namespace RainbowSchool.Models
{
    public class Student
        [Key]
        public int StudentId { get; set; }
        [Required]
        public string StudentName { get; set; }
        public string StudentEmail { get; set; }
    }
}
Subject.cs
using System.ComponentModel.DataAnnotations;
namespace RainbowSchool.Models
    public class Subject
        [Key]
        public int SubjectId { get; set; }
        [Required]
        public string SubjectName { get; set; }
    }
}
Marks.cs
using System.ComponentModel.DataAnnotations;
namespace RainbowSchool.Models
{
    public class Marks
        [Key]
        public int SubjectId { get; set; }
        [Required]
        public int StudentId { get; set; }
        [Required]
        public double SubjectMarks { get; set; }
    }
}
MarksController.cs
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 RainbowSchool.Data;
using RainbowSchool.Models;
namespace RainbowSchool.Controllers
    [Route("api/[controller]")]
    [ApiController]
    public class MarksController : ControllerBase
        private readonly RainbowSchoolContext _context;
        public MarksController(RainbowSchoolContext context)
            _context = context;
        }
        // GET: api/Marks
        [HttpGet]
        public async Task<ActionResult<IEnumerable<Marks>>> GetMarks()
          if (_context.Marks == null)
              return NotFound();
            return await _context.Marks.ToListAsync();
        }
        // GET: api/Marks/5
        [HttpGet("{id}")]
        public async Task<ActionResult<Marks>> GetMarks(int id)
          if (_context.Marks == null)
              return NotFound();
            var marks = await _context.Marks.FindAsync(id);
            if (marks == null)
            {
                return NotFound();
            return marks;
        }
        // PUT: api/Marks/5
        // To protect from overposting attacks, see
https://go.microsoft.com/fwlink/?linkid=2123754
        [HttpPut("{id}")]
        public async Task<IActionResult> PutMarks(int id, Marks marks)
            if (id != marks.SubjectId)
            {
                return BadRequest();
            }
```

```
_context.Entry(marks).State = EntityState.Modified;
            try
            {
                await _context.SaveChangesAsync();
            catch (DbUpdateConcurrencyException)
                if (!MarksExists(id))
                {
                    return NotFound();
                }
                else
                {
                    throw;
                }
            }
            return NoContent();
        }
        // POST: api/Marks
        // To protect from overposting attacks, see
https://go.microsoft.com/fwlink/?linkid=2123754
        [HttpPost]
        public async Task<ActionResult<Marks>> PostMarks(Marks marks)
        {
          if (_context.Marks == null)
              return Problem("Entity set 'RainbowSchoolContext.Marks' is null.");
            _context.Marks.Add(marks);
            await _context.SaveChangesAsync();
            return CreatedAtAction("GetMarks", new { id = marks.SubjectId }, marks);
        }
        // DELETE: api/Marks/5
        [HttpDelete("{id}")]
        public async Task<IActionResult> DeleteMarks(int id)
            if (_context.Marks == null)
            {
                return NotFound();
            var marks = await _context.Marks.FindAsync(id);
            if (marks == null)
            {
                return NotFound();
            }
            _context.Marks.Remove(marks);
            await _context.SaveChangesAsync();
            return NoContent();
        }
        private bool MarksExists(int id)
```

```
{
    return (_context.Marks?.Any(e => e.SubjectId ==
id)).GetValueOrDefault();
    }
}

appSettings.json
{
    "Logging": {
        "LogLevel": {
            "Default": "Information",
            "Microsoft.AspNetCore": "Warning"
        }
    ,
        "AllowedHosts": "*",
        "ConnectionStrings": {
            "RainbowSchoolContext": "Server=DESKTOP-
CHNJSUD;Database=RainbowSchoolAPI;TrustServerCertificate=true;Trusted_Connection=True;MultipleActiveResultSets=true"
    }
}
```