

# Source Code

## DeptMaster.cs

```
using System.ComponentModel.DataAnnotations.Schema;
using System.ComponentModel.DataAnnotations;

namespace PhaseEndProject1.Models
{
    [Table("DeptMaster")]
    public class DeptMaster
    {
        [Key]
        public int DeptCode { get; set; }

        public string DeptName { get; set; }

        public virtual ICollection<EmpProfile> EmpProfiles { get; set; }
    }
}
```

## EmpProfile.cs

```
using System.ComponentModel.DataAnnotations.Schema;
using System.ComponentModel.DataAnnotations;

namespace PhaseEndProject1.Models
{
    [Table("EmpProfile")]
    public class EmpProfile
    {
        [Key]
        public int EmpCode { get; set; }
        public DateTime DateOfBirth { get; set; }
        public string EmpName { get; set; }
        public string Email { get; set; }
        public int DeptCode { get; set; }
        public virtual DeptMaster DeptMaster { get; set; }
    }
}
```

## DeptMastersController.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 PhaseEndProject1.Data;
using PhaseEndProject1.Models;
```

```

namespace PhaseEndProject1.Controllers
{
    [Route("api/[controller]")]
    [ApiController]
    public class DeptMastersController : ControllerBase
    {
        private readonly PhaseEndDbContext _context;

        public DeptMastersController(PhaseEndDbContext context)
        {
            _context = context;
        }

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

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

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

            return deptMaster;
        }

        // PUT: api/DeptMasters/5
        // To protect from overposting attacks, see https://go.microsoft.com/fwlink/?linkid=2123754
        [HttpPut("{id}")]
        public async Task<ActionResult> PutDeptMaster(int id, DeptMaster deptMaster)
        {
            if (id != deptMaster.DeptCode)
            {
                return BadRequest();
            }

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

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

```

```

        }
        else
        {
            throw;
        }
    }

    return NoContent();
}

// POST: api/DeptMasters
// To protect from overposting attacks, see https://go.microsoft.com/fwlink/?linkid=2123754
[HttpPost]
public async Task<ActionResult<DeptMaster>> PostDeptMaster(DeptMaster deptMaster)
{
    if (_context.DeptMaster == null)
    {
        return Problem("Entity set 'PhaseEndDbContext.DeptMaster' is null.");
    }
    _context.DeptMaster.Add(deptMaster);
    await _context.SaveChangesAsync();

    return CreatedAtAction("GetDeptMaster", new { id = deptMaster.DeptCode }, deptMaster);
}

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

    _context.DeptMaster.Remove(deptMaster);
    await _context.SaveChangesAsync();

    return NoContent();
}

private bool DeptMasterExists(int id)
{
    return (_context.DeptMaster?.Any(e => e.DeptCode == id)).GetValueOrDefault();
}
}
}

```

## EmpProfilesController.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 PhaseEndProject1.Data;
using PhaseEndProject1.Models;

namespace PhaseEndProject1.Controllers
{
    [Route("api/[controller]")]
    [ApiController]
    public class EmpProfilesController : ControllerBase
    {
        private readonly PhaseEndDbContext _context;

        public EmpProfilesController(PhaseEndDbContext context)
        {
            _context = context;
        }

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

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

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

            return empProfile;
        }

        // PUT: api/EmpProfiles/5
        // To protect from overposting attacks, see https://go.microsoft.com/fwlink/?linkid=2123754
        [HttpPut("{id}")]
        public async Task<ActionResult> PutEmpProfile(int id, EmpProfile empProfile)
        {
            if (id != empProfile.EmpCode)
            {
                return BadRequest();
            }

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

            try
            {
                await _context.SaveChangesAsync();
            }
            catch (DbUpdateConcurrencyException)
            {
            }
        }
    }
}

```

```

        if (!EmpProfileExists(id))
        {
            return NotFound();
        }
        else
        {
            throw;
        }
    }

    return NoContent();
}

// POST: api/EmpProfiles
// To protect from overposting attacks, see https://go.microsoft.com/fwlink/?linkid=2123754
[HttpPost]
public async Task<ActionResult<EmpProfile>> PostEmpProfile(EmpProfile empProfile)
{
    if (_context.EmpProfile == null)
    {
        return Problem("Entity set 'PhaseEndDbContext.EmpProfile' is null.");
    }
    _context.EmpProfile.Add(empProfile);
    await _context.SaveChangesAsync();

    return CreatedAtAction("GetEmpProfile", new { id = empProfile.EmpCode }, empProfile);
}

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

    _context.EmpProfile.Remove(empProfile);
    await _context.SaveChangesAsync();

    return NoContent();
}

private bool EmpProfileExists(int id)
{
    return (_context.EmpProfile?.Any(e => e.EmpCode == id)).GetValueOrDefault();
}
}

```

## Appsettings.json

```

{
  "Logging": {
    "LogLevel": {
      "Default": "Information",

```

```
    "Microsoft.AspNetCore": "Warning"
  },
  "AllowedHosts": "*",
  "ConnectionStrings": {
    "PhaseEndDbContext": "Server=LAPTOP-
EA5C4MP1;Database=PhaseEndDb;Trusted_Connection=True;MultipleActiveResultSets=true;TrustServerCertificate
=True;"
  }
}
```