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Lab : 09

=> Student.cs Code

```
using System.ComponentModel.DataAnnotations;

namespace Lab_9.Models;

public class Student
{
    [Key]
    public int Id { get; set; }

    public string Name { get; set; }

    public string Email { get; set; }

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

=> StudentContext.cs Code

```
using Microsoft.EntityFrameworkCore;

namespace Lab_9.Models;

public class StudentContext : DbContext
{
    public StudentContext(DbContextOptions<StudentContext>
options):base(options)
```

```

    { }

    public DbSet<Student> Students { get; set; }
}

```

=> Program.cs code

```

using Lab_9.Models;
using Microsoft.EntityFrameworkCore;

namespace Lab_9;

public class Program
{
    public static void Main(string[] args)
    {
        var builder = WebApplication.CreateBuilder(args);

        // Using In memory Database
        // builder.Services.AddDbContext<StudentContext>(opt =>
        opt.UseInMemoryDatabase("StudentDB"));

        // Fetching Connection String
        var connectionString =
builder.Configuration.GetConnectionString("ConnectionString");
        // Using Database
        builder.Services.AddDbContext<StudentContext>(options =>
            options.UseMySQL(
                connectionString,
                new MySQLServerVersion(new Version(10, 11, 10)) //
Adjust to your MariaDB version
            )
        );

        // Add services to the container.

        builder.Services.AddControllers();
    }
}

```

```

    // Learn more about configuring Swagger/OpenAPI at
https://aka.ms/aspnetcore/swashbuckle
    builder.Services.AddEndpointsApiExplorer();
    builder.Services.AddSwaggerGen();

    var app = builder.Build();

    // Configure the HTTP request pipeline.
    if (app.Environment.IsDevelopment())
    {
        app.UseSwagger();
        app.UseSwaggerUI();
    }

    app.UseHttpsRedirection();

    app.UseAuthorization();

    app.MapControllers();

    app.Run();
}

```

=> appsetting.json code

```

{
  "Logging": {
    "LogLevel": {
      "Default": "Information",
      "Microsoft.AspNetCore": "Warning"
    }
  },
  "AllowedHosts": "*",
  "ConnectionStrings": {
    "Lab_9Context": "Data
Source=Lab_9Context-73761489-578a-4ab9-a0f9-493bdafef38f.db",

```

```
"ConnectionString":
"Server=localhost;Database=WSD;User=nisarg;Password=nisarg2004;TreatT
inyAsBoolean=false;",
}
}
```

Output Screenshots

Request URL

http://localhost:5196/api/Students

Server response

| Code | Details |
|------|--|
| 200 | <p>Response body</p> <pre>[{ "id": 1, "name": "Nisarg", "email": "amlani@gmail.com", "sem": 6 }, { "id": 2, "name": "Neha", "email": "neha@gmail.com", "sem": 6 }]</pre> <p>Response headers</p> <pre>content-type: application/json; charset=utf-8 date: Sun, 16 Feb 2025 11:08:23 GMT server: Kestrel transfer-encoding: chunked</pre> |

Responses

| Code | Description |
|------|-------------|
| 200 | OK |

Request URL

`http://localhost:5196/api/Students`

Server response

| Code | Details |
|------|---------|
|------|---------|

| | |
|-----|--|
| 201 | |
|-----|--|

Undocumented

Response body

```
{
  "id": 2,
  "name": "Neha",
  "email": "neha@gmail.com",
  "sem": 6
}
```

Response headers

```
content-type: application/json; charset=utf-8
date: Sun, 16 Feb 2025 11:08:08 GMT
location: http://localhost:5196/api/Students/2
server: Kestrel
transfer-encoding: chunked
```

Responses

| Code | Description |
|------|-------------|
|------|-------------|

| | |
|-----|----|
| 200 | OK |
|-----|----|

Request URL

`http://localhost:5196/api/Students/2`

Server response

| Code | Details |
|------|---------|
|------|---------|

| | |
|-----|--|
| 200 | |
|-----|--|

Response body

```
{
  "id": 2,
  "name": "Neha",
  "email": "neha@gmail.com",
  "sem": 6
}
```

Response headers

```
content-type: application/json; charset=utf-8
date: Sun, 16 Feb 2025 12:38:38 GMT
server: Kestrel
transfer-encoding: chunked
```

Responses

| Code | Description |
|------|-------------|
|------|-------------|

| | |
|-----|----|
| 200 | OK |
|-----|----|

Request URL

`http://localhost:5196/api/Students/1`

Server response

Code

Details

204

Undocumented

Response headers

`date: Sun, 16 Feb 2025 12:40:09 GMT
server: Kestrel`

Responses

Code

Description

200

OK

Request URL

`http://localhost:5196/api/Students/1`

Server response

Code

Details

204

Undocumented

Response headers

`date: Sun, 16 Feb 2025 12:40:44 GMT
server: Kestrel`

Responses

Code

Description

200

OK