

create an web api project and install Web api packages

Entity framework -6.4

Entity frameworkcore-8.2

Entity frameworkcore.Tools 8.2

mysql.EntityFramework 8.0

pomelo.EntityFramework -8.0

My SQL.data

create an separate folder for model and data folder for appdbcontext include the table details like this example

Models/UserDetails.cs

using System.ComponentModel.DataAnnotations;

```
namespace Registerpage.Models
{
    public class UserDetails
    {
        [Key]
        public int Id { get; set; }
        public string? Name { get; set; }
        [Required]
        public string? Email { get; set; }
        [Required]
        public double? PhoneNumber { get; set; }
        [Required]
        public string? Password { get; set; }
        [Required]
        public string? ConfirmPassword { get; set; }
    }
}
```

---

create an appdbcontext in data folder

Data/AppDbContext.cs

using Microsoft.EntityFrameworkCore;

using Registerpage.Models;

namespace Registerpage.Data

```

{

public class AppDbContext:DbContext

{
public AppDbContext(DbContextOptions<AppDbContext> options) : base(options)
{

}

public DbSet<UserDetails> APIUser { get; set; }
}
}

```

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add connectionstrings for connecting the database

Appsettings.json

```

"ConnectionStrings": {
"DefaultConnection": "server=localhost;database=RegisterUser;user=root;password=root;"
},

```

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add an controller in the project right click then go add->controller-> select API -> API Controller - empty -> give file name

Controllers/userdetailscontroller.cs

```

using Microsoft.AspNetCore.Http;
using Microsoft.AspNetCore.Mvc;
using Registerpage.Data;
using Microsoft.EntityFrameworkCore;
using Registerpage.Models;

```

namespace Registerpage.Controllers

```

{
[Route("api/[controller]")]
[ApiController]
public class UserDetailsController : ControllerBase

```

```
{
private readonly AppDbContext _context;
public UserDetailsController(AppDbContext context)
{
_context = context;
}
```

```
[HttpGet]
public async Task<ActionResult<List<UserDetails>>> GetUser()
{
return Ok(await _context.APIUser.ToListAsync());
}
```

```
[HttpGet("{id}")]
public ActionResult<UserDetails> GetUser(int id)
{
var user = _context.APIUser.Find(id);
if (user == null)
{
return NotFound();
}
return user;
}
```

```
[HttpPost]

public async Task<ActionResult<UserDetails>> Create(UserDetails user)
{
_context.Add(user);

await _context.SaveChangesAsync();
return Ok(user);
}
```

```
[HttpPut("{id}")]
public async Task<ActionResult> Update(int id, UserDetails user)
{
if (id != user.Id)
```

```
return BadRequest();
_context.Entry(user).State = EntityState.Modified;
await _context.SaveChangesAsync();
return Ok();
}
```

[HttpDelete("{id}")]

```
public async Task<ActionResult> Delete(int id)
{
    var product = await _context.APIUser.FindAsync(id);
    if (product == null)
    {
        return NotFound("Incorrect User Id");
    }
}
```

```
_context.APIUser.Remove(product);
await _context.SaveChangesAsync();
```

```
return Ok();
}
}
}
```

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Then next step is migrate the model class file to database  
open the powershell in the VS and enter the command "dotnet ef migration add "<any name>"  
after build succeeded then enter "dotnet ef database update"

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then run the project web api works.