

Documentacija ASP



Student: Nemanja Ranisavljevic 86/16

Predmet ASP.NET

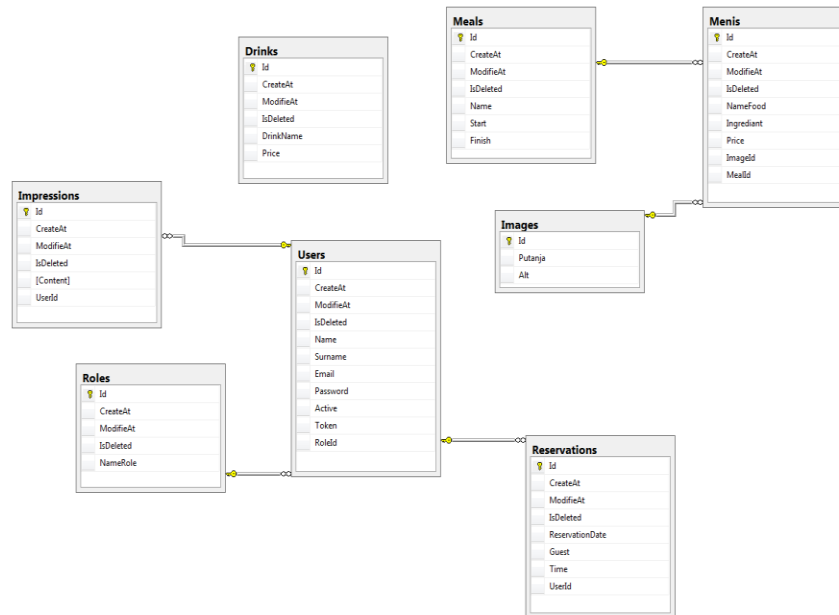
Uvod

Tema projekta je restoran koji daje mogućnost korisnicima da imaju uvid u jela restorana po dnevnim obrocima, sliku jela, sastojke jela I cenu, kartu pica koju nudi restoran, kao I mogućnost uvida u utiske zadovoljnih korisnika nase usluge. Korisnici koji se registruju dobijaju email dobrodoslice na sajt, nakon logovanja imaju mogućnost da rezervisu svoje mesto u restoranu unoseci datum, vreme, broj osoba. Nakon nase posete mogu da unesu I svoj utisak koji kasnije vide ostali posetioци. Sve te mogućnosti su obezbedjene putem API projekta.

Web deo projekta pruža mogućnost korisnicima uvid u jelovnik restorana I slika svakog jela, kao I mogućnost unosenja utiska o restoranu I uvid u utiske. Admin ima mogućnost da briše, postavlja I menja jela restorana I utiske

NAPOMENA: Zbog problema sa dekripcijom tokena koji dobijem prilikom logovanja nisam stavio iznad metoda u kontolerima uloge koje mogu da pristupe. Jer neki kod dekriptuje, a neki ne.

Dizajn baze



Domain abstract Model

```
public abstract class Model
{
    public int Id { get; set; }
    public DateTime? CreateAt { get; set; }
    public DateTime? ModifieAt { get; set; }
    public bool IsDeleted { get; set; }
}
```

Drink

```
public class Drink:Model
{
    public string DrinkName { get; set; }
    public double Price { get; set; }
}
```

Image

```
public class Image
{
    public int Id { get; set; }
    public string Putanja { get; set; }
    public string Alt { get; set; }

    public ICollection<Meni> Menis { get; set; }
}
```

Impression

```
public class Impression:Model
{
    public string Content { get; set; }
    public int UserId { get; set; }

    public User User { get; set; }
}
```

Meal

```
public class Meal:Model
{
    public string Name { get; set; }
    public string Start { get; set; }
    public string Finish { get; set; }

    public ICollection<Meni> Menis { get; set; }
}
```

Meni

```
public class Meni:Model
{
    public string NameFood { get; set; }
    public string Ingrediant { get; set; }
    public string Price { get; set; }
    public int ImageId { get; set; }

    public Image Image { get; set; }

    public int MealId { get; set; }

    public Meal Meal { get; set; }
}
```

```
}
```

Reservation

```
public class Reservation:Model
{
    public DateTime ReservationDate { get; set; }
    public int Guest { get; set; }
    public string Time { get; set; }
    public int UserId { get; set; }

    public User User { get; set; }
}
```

Role

```
public class Role:Model
{
    public string NameRole { get; set; }

    public ICollection<User> Users { get; set; }
}
```

User

```
public class User:Model
{
    public string Name { get; set; }
    public string Surname { get; set; }
    public string Email { get; set; }
    public string Password { get; set; }
    public bool Active { get; set; }
    public string Token { get; set; }
    public int RoleId { get; set; }

    public Role Role { get; set; }

    public ICollection<Impression> Impressions { get; set; }
    public ICollection<Reservation> Reservations { get; set; }
}
```

EFDataAccess/Configurations

Drink

```
public class DrinkConfiguratin : IEntityTypeConfiguration<Drink>
{
    public void Configure(EntityTypeBuilder<Drink> builder)
```

```

    {
        builder.Property(d => d.DrinkName)
            .HasMaxLength(50)
            .IsRequired();

        builder.Property(d => d.CreateAt).HasDefaultValueSql("GETDATE()");
        builder.Property(d => d.ModifieAt).HasDefaultValueSql("GETDATE()");
        builder.Property(d => d.IsDeleted).HasDefaultValue(false);
    }
}

```

Image

```

public class ImageConfiguration : IEntityTypeConfiguration<Image>
{
    public void Configure(EntityTypeBuilder<Image> builder)
    {
        builder.Property(i => i.Putanja).IsRequired();
        builder.Property(i => i.Alt).IsRequired().HasMaxLength(50);
    }
}

```

Impression

```

public class ImpressionConfiguration : IEntityTypeConfiguration<Impression>
{
    public void Configure(EntityTypeBuilder<Impression> builder)
    {
        builder.Property(i => i.Content)
            .IsRequired();

        builder.Property(i => i.CreateAt).HasDefaultValueSql("GETDATE()");
        builder.Property(i => i.ModifieAt).HasDefaultValueSql("GETDATE()");
        builder.Property(i => i.IsDeleted).HasDefaultValue(false);
    }
}

```

Meal

```

public class MealConfiguration : IEntityTypeConfiguration<Meal>
{
    public void Configure(EntityTypeBuilder<Meal> builder)
    {
        builder.Property(m => m.Name)
            .HasMaxLength(30)
            .IsRequired();

        builder.Property(m => m.Finish)
            .IsRequired();
    }
}

```

```

        builder.Property(m => m.Start)
            .IsRequired();

        builder.Property(m => m.CreateAt).HasDefaultValueSql("GETDATE()");
        builder.Property(m => m.ModifieAt).HasDefaultValueSql("GETDATE()");
        builder.Property(m => m.IsDeleted).HasDefaultValue(false);
    }
}

```

Meni

```

public class MeniConfiguration : IEntityTypeConfiguration<Meni>
{
    public void Configure(EntityTypeBuilder<Meni> builder)
    {
        builder.Property(m => m.NameFood)
            .HasMaxLength(30)
            .IsRequired();

        builder.Property(m => m.Ingrediant)
            .IsRequired();

        builder.Property(m => m.Price)
            .IsRequired();

        builder.Property(u => u.CreateAt).HasDefaultValueSql("GETDATE()");
        builder.Property(u => u.ModifieAt).HasDefaultValueSql("GETDATE()");
        builder.Property(u => u.IsDeleted).HasDefaultValue(false);
    }
}

```

Reservation

```

public void Configure(EntityTypeBuilder<Reservation> builder)
{
    builder.Property(r => r.ReservationDate)
        .HasMaxLength(50)
        .IsRequired();

    builder.Property(r => r.Guest)
        .IsRequired();

    builder.Property(r => r.Time)
        .IsRequired();
}

```

```
builder.Property(r => r.CreateAt).HasDefaultValueSql("GETDATE()");
builder.Property(r => r.ModifieAt).HasDefaultValueSql("GETDATE()");
builder.Property(r => r.IsDeleted).HasDefaultValue(false);
```

```
}
```

Rule

```
public class RuleConfiguration : IEntityTypeConfiguration<Role>
{
    public void Configure(EntityTypeBuilder<Role> builder)
    {
        builder.Property(r => r.NameRole)
            .IsRequired()
            .HasMaxLength(20);

        builder.Property(r => r.CreateAt).HasDefaultValueSql("GETDATE()");
        builder.Property(r => r.ModifieAt).HasDefaultValueSql("GETDATE()");
        builder.Property(r => r.IsDeleted).HasDefaultValue(false);
    }
}
```

User

```
public class UserConfiguration : IEntityTypeConfiguration<User>
{
    public void Configure(EntityTypeBuilder<User> builder)
    {
        builder.Property(u => u.Name)
            .HasMaxLength(50)
            .IsRequired();

        builder.Property(u => u.Surname)
            .HasMaxLength(50)
            .IsRequired();

        builder.Property(u => u.Email)
            .HasMaxLength(150)
            .IsRequired();
        builder.HasIndex(u => u.Email)
            .IsUnique();

        builder.Property(u => u.Active)
            .HasDefaultValue(false);

        builder.Property(u => u.CreateAt).HasDefaultValueSql("GETDATE()");
        builder.Property(u => u.ModifieAt).HasDefaultValueSql("GETDATE()");
        builder.Property(u => u.IsDeleted).HasDefaultValue(false);
    }
}
```



```
}
```

DBContext

```
public class DBContext:DbContext
{
    public DbSet<User> Users { get; set; }
    public DbSet<Role> Roles { get; set; }
    public DbSet<Reservation> Reservations { get; set; }

    public DbSet<Meni> Menis { get; set; }
    public DbSet<Meal> Meals { get; set; }

    public DbSet<Impression> Impressions { get; set; }
    public DbSet<Drink> Drinks { get; set; }
    public DbSet<Image> Images { get; set; }

    protected override void OnConfiguring(DbContextOptionsBuilder optionsBuilder)
    {
        optionsBuilder.UseSqlServer(@"Data Source=USER-PC\SQLEXPRESS;Initial
Catalog=APIRestoran;Integrated Security=True");
    }

    protected override void OnModelCreating(ModelBuilder modelBuilder)
    {
        modelBuilder.ApplyConfiguration(new DrinkConfiguratin());
        modelBuilder.ApplyConfiguration(new ImpressionConfiguration());
        modelBuilder.ApplyConfiguration(new MealConfiguration());
        modelBuilder.ApplyConfiguration(new MeniConfiguration());
        modelBuilder.ApplyConfiguration(new ReservationConfiguration());
        modelBuilder.ApplyConfiguration(new RuleConfiguration());
        modelBuilder.ApplyConfiguration(new UserConfiguration());
        modelBuilder.ApplyConfiguration(new ImageConfiguration());
    }
}
```

Swagger

Restoran API v1

/swagger/v1/swagger.json

Auth

POST /api/Auth

GET /api/Auth/decode

Drink

GET /api/Drink

Parameters

Try it out

Name	Description
DrinkName	
string	
(query)	
MinPrice	
number(\$double)	
(query)	
MaxPrice	
number(\$double)	
(query)	
PerPage	
integer(\$int32)	
(query)	
PageNumber	
integer(\$int32)	
(query)	
Id	
integer(\$int32)	
(query)	
Keyword	
string	
(query)	
IsDeleted	
boolean	
(query)	

Responses

Response content type **text/plain**

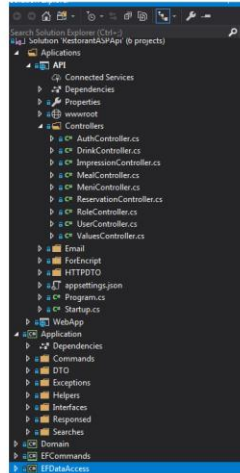
Code	Description
200	Success

Example Value | Model

```
[
  {
    "id": 0,
    "drinkName": "string",
    "price": 0
  }
]
```

POST /api/Drink

API controlleri



STARTUP API

```
public void ConfigureServices(IServiceCollection services)
{
    services.AddMvc().SetCompatibilityVersion(CompatibilityVersion.Version_2_2);
    services.AddDbContext<DBContext>();
    services.AddSwaggerGen(c =>
    {
        c.SwaggerDoc("v1", new Info { Title = "Restoran API", Version = "v1" });
    });

    services.AddTransient<IDrinkCreateCommand, EFCreateDrinkCommand>();
    services.AddTransient<IDeleteDrinkCommand, EFDeleteDrinkCommand>();
    services.AddTransient<IEditDrinkCommand, EFEEditDrinkCommand>();
    services.AddTransient<IGetDrinksCommand, EFGetDrinksCommand>();
    services.AddTransient<IGetDrinkCommand, EFGetDrinkCommand>();

    services.AddTransient<IAddRolleCommand, EFAddRolleCommand>();
    services.AddTransient<IGetRolesCommand, EFGetRolesCommand>();
}
```

```
services.AddTransient<IGetRoleCommand, EFGetRoleCommand>();
services.AddTransient<IEditRoleCommand, EFEEditRoleCommand>();
services.AddTransient<IDeleteRoleCommand, EFDeleteRoleCommand>();
```

```
services.AddTransient<IAddUserCommand, EFAddUserCommand>();
services.AddTransient<IDeleteUserCommand, EFDeleteUserCommand>();
services.AddTransient<IGetUserCommand, EFGetUserCommand>();
services.AddTransient<IEditUserCommand, EFEEditUserCommand>();
services.AddTransient<IGetUsersCommand, EFGetUsersCommand>();
```

```
services.AddTransient<IAddImpresssionCommand, EFAddImpressionCommand>();
services.AddTransient<IDeleteImpressionCommand, EFDeleteImpressionCommand>();
services.AddTransient<IGetImpressionCommand, EFGetImpressionCommand>();
services.AddTransient<IEditImpressionCommand, EFEEditImpressionCommand>();
services.AddTransient<IGetImpressionsCommand, EFGetImpressionsCommand>();
```

```
services.AddTransient<IAddReservationCommmand, EFAddReservationCommand>();
services.AddTransient<IDeleteReservationCommand, EFDeleteReservationCommand>();
services.AddTransient<IGetReservationCommand, EFGetReservationCommand>();
services.AddTransient<IEditReservationCommand, EFEEditReservationCommand>();
services.AddTransient<IGetReservationsCommand, EFGetReservationsCommand>();
```

```
services.AddTransient<IAddMealCommand, EFAddMealCommand>();
services.AddTransient<IDeleteMealCommand, EFDeleteMealCommand>();
services.AddTransient<IGetMealCommand, EFGetMealCommand>();
services.AddTransient<IGetMealsCommand, EFGetMealsCommand>();
services.AddTransient<IEditMealCommand, EFEEditMealCommand>();
```

```
services.AddTransient<IAddMeniCommand, EFAddMeniCommand>();
services.AddTransient<IGetMeniCommand, EFGetMeniCommand>();
services.AddTransient<IGetMeniesCommand, EFGetMeniesCommand>();
services.AddTransient<IEditMeniCommand, EFEEditMeniCommand>();
services.AddTransient<IDeleteMeniCommand, EFDeleteMenicommand>();
```

```
var section = Configuration.GetSection("Email");
```

```
var sender =
    new SmtpEmailSender(section["host"], Int32.Parse(section["port"]),
section["fromaddress"], section["password"]);
```

```
services.AddSingleton<IEmailSender>(sender);
```

```
services.AddTransient<IHttpContextAccessor, HttpContextAccessor>();
services.AddTransient<IAuthUserCommand, EFAuthUserCommand>();
```

```
var key = Configuration.GetSection("Encryption")["key"];
```

```

var enc = new Encryption(key);
services.AddSingleton(enc);

services.AddTransient(s => {
    var http = s.GetRequiredService<IHttpContextAccessor>();
    var value = http.HttpContext.Request.Headers["Authorization"].ToString();
    var encryption = s.GetRequiredService<Encryption>();

    try
    {
        var decodedString = encryption.DecryptString(value);
        decodedString = decodedString.Replace("\t", "");
        var user = JsonConvert.DeserializeObject<LoggedUser>(decodedString);
        user.IsLogged = true;
        return user;
    }
    catch (Exception)
    {
        return new LoggedUser
        {
            IsLogged = false
        };
    }
});
}

```

AuthController

Kontroler koji omogućava enkripciju I dekrpiciju. Korisnik da bi se logovao mora da unese Email I Password.

```

public class AuthController : ControllerBase
{
    private readonly Encryption _enc;
    private IAuthUserCommand _authUserCommand;

    public AuthController(Encryption enc, IAuthUserCommand authUserCommand)
    {
        _enc = enc;
        _authUserCommand = authUserCommand;
    }

    // POST: api/Auth
    [HttpPost]
    public ActionResult Post([FromBody] UserAuthDTO request)
    {

```

```

        var user = _authUserCommand.Execute(request);

        var stringObjekat = JsonConvert.SerializeObject(user);

        var encrypted = _enc.EncryptString(stringObjekat);

        return Ok(new { token = encrypted });
    }

    [HttpGet("decode")]
    public IActionResult Decode(string value)
    {
        var decodedString = _enc.DecryptString(value);
        decodedString = decodedString.Replace("\u000e", "");
        var user = JsonConvert.DeserializeObject<LoggedUser>(decodedString);

        return null;
    }
}

```

LoggedIn za autorizaciju klasa

```

private readonly string _role;
public LoggedIn(string RoLeName)
{
    _role = RoLeName;
}

public LoggedIn()
{
}

//nakon akcije kontrolera se poziva
public void OnResourceExecuted(ResourceExecutedContext context)
{
}

//poziva se pre akcije kontrolera
public void OnResourceExecuting(ResourceExecutingContext context)
{
    var user = context.HttpContext.RequestServices.GetService<LoggedUser>();

    if (!user.IsLogged)
    {
        context.Result = new UnauthorizedResult();
    }
    else
    {
        if (_role != null)
        {
            if (user.RoleName != _role)
            {

```

```

        context.Result = new UnauthorizedResult();
    }
}
}

```

DrinkController

Pri dodavanju novog pica proverava se da li je cena manja od 0 ili je 0, ali ime pica vec postoji. Pri izmeni moguće je izmeniti bilo koji parametar posebno.

Pretraga I paginacija: Drink klasa ima mogućnost pretrage preko:

- DrinkName
- MaxPrice
- MinPrice
- Id
- PageNumber
- PerPage

```

public class DrinkController : ControllerBase
{
    private IDrinkCreateCommand _createDrinkCommand;
    private IDeleteDrinkCommand _deleteDrinkCommand;
    private IEditDrinkCommand _editDrinkCommand;
    private IGetDrinksCommand _getDrinksCommand;
    private IGetDrinkCommand _getDrinkCommand;

    public DrinkController(IDrinkCreateCommand createDrinkCommand, IDeleteDrinkCommand
deleteDrinkCommand, IEditDrinkCommand editDrinkCommand, IGetDrinksCommand getDrinksCommand,
IGetDrinkCommand getDrinkCommand)
    {
        _createDrinkCommand = createDrinkCommand;
        _deleteDrinkCommand = deleteDrinkCommand;
        _editDrinkCommand = editDrinkCommand;
        _getDrinksCommand = getDrinksCommand;
    }
}

```

```

        _getDrinkCommand = getDrinkCommand;
    }

    // GET: api/Drink
    [HttpGet]
    public ActionResult<IEnumerable<CreateDrinkDTO>> Get([FromQuery] DrinkSearch
drinkSearch)
    {
        try
        {
            var search = _getDrinksCommand.Execute(drinkSearch);
            return Ok(search);
        } catch (Exception)
        {
            return StatusCode(500, "Server error, try later");
        }
    }

    // GET: api/Drink/5
    [HttpGet("{id}", Name = "Get")]
    public ActionResult<IEnumerable<CreateDrinkDTO>> Get(int id)
    {
        try
        {
            var drink = _getDrinkCommand.Execute(id);
            return Ok(drink);
        } catch (NotFoundException)
        {
            return NotFound();
        } catch (Exception)
        {
            return StatusCode(500, "Server error, try later");
        }
    }

    // POST: api/Drink
    [HttpPost]
    public ActionResult Post([FromBody] CreateDrinkDTO value)
    {
        try
        {
            _createDrinkCommand.Execute(value);
            return StatusCode(201, "Create Drink is succesfully");
        }
        catch (DataCanNotBeNull)
        {
            return StatusCode(422, "Price can not be null");
        }
        catch (AlredyExistException)
        {
            return StatusCode(422, "Drink name alredy exist");
        }
        catch (Exception)
        {
            return StatusCode(500, "Server errors, try later");
        }
    }
}

```



```

// PUT: api/Drink/5
[HttpPut("{id}")]
public ActionResult Put(int id,[FromBody] CreateDrinkDTO value)
{
    try
    {
        _editDrinkCommand.Execute(value);
        return NoContent();
    }catch(AlredyExistException)
    {
        return StatusCode(409, "Drink name Alredy Exist");
    }catch(DataCanNotBeNull)
    {
        return StatusCode(409, "Price can not be null");
    }catch(NotFoundException)
    {
        return NotFound();
    }catch(Exception)
    {
        return StatusCode(500, "Server error, try later");
    }
}

// DELETE: api/ApiWithActions/5
[HttpDelete("{id}")]
public ActionResult Delete(int id)
{
    try
    {
        _deleteDrinkCommand.Execute(id);
        return NoContent();
    }
    catch (NotFoundException)
    {
        return NotFound();
    }
    catch (Exception)
    {
        return StatusCode(500, "Server error, try later");
    }
}

```

Application/CreateDrinkDTO

```

public class CreateDrinkDTO
{
    public int Id { get; set; }
    [Required(ErrorMessage = "Name of drink is required")]
    [MinLength(3,ErrorMessage = "Name of drink can not be short than 3")]
    [MaxLength(20,ErrorMessage = "Name of drink can not be loger than 20")]
    public string DrinkName { get; set; }
    [Required(ErrorMessage = "Price of drink is required")]
    public double Price { get; set; }
}

```

Application/Commands/DrinkCommand

```
public interface IDeleteDrinkCommand:ICommand<int>

public interface IDrinkCreateCommand:ICommand<CreateDrinkDTO>

public interface IEditDrinkCommand:ICommand<CreateDrinkDTO>

public interface IGetDrinkCommand:ICommand<int, IEnumerable<CreateDrinkDTO>>

public interface IGetDrinksCommand:ICommand<DrinkSearch, PagedResponse<CreateDrinkDTO>>
```

EFCommands/EFBaseCommadn

```
public abstract class EFBaseCommand
{
    protected readonly DbContext _context;

    public EFBaseCommand(DbContext context)
    {
        this._context = context;
    }
}
```

EFCommands/EFCreateDrinkCommand

```
public class EFCreateDrinkCommand : EFBaseCommand, IDrinkCreateCommand
{
    public EFCreateDrinkCommand(DbContext context) : base(context)
    {
    }

    public void Execute(CreateDrinkDTO request)
    {
        if(_context.Drinks.Any(d => d.DrinkName == request.DrinkName))
        {
            throw new AlredyExistException();
        }

        if (request.DrinkName == null)
        {
            throw new DataCanNotBeNull();
        }

        if (request.Price <= 0)
        {
        }
    }
}
```

```

        throw new DataCanNotBeNull();
    }

    _context.Add(new Drink
    {
        DrinkName = request.DrinkName,
        Price = request.Price
    });

    _context.SaveChanges();
}
}

```

EFDeleteDrinkCommand

```

public class EFDeleteDrinkCommand : EFBaseCommand, IDeleteDrinkCommand
{
    public EFDeleteDrinkCommand(DBContext context) : base(context)
    {
    }

    public void Execute(int request)
    {
        var drink = _context.Drinks.Find(request);

        if(drink == null)
        {
            throw new NotFoundException();
        }

        _context.Drinks.Remove(drink);

        _context.SaveChanges();
    }
}

```

EFEEditDrinkCommand

```

public class EFEEditDrinkCommand : EFBaseCommand, IEditDrinkCommand
{
    public EFEEditDrinkCommand(DBContext context) : base(context)
    {
    }

    public void Execute(CreateDrinkDTO request)
    {
        var drink = _context.Drinks.Find(request.Id);

        if(drink == null)

```

```

        {
            throw new NotFoundException();
        }

        if(!_context.Drinks.Any(d => d.DrinkName == request.DrinkName))
        {
            throw new AlredyExistException();
        }

        if(request.Price <= 0)
        {
            throw new DataCanNotBeNull();
        }

        drink.DrinkName = request.DrinkName;
        drink.Price = request.Price;

        _context.SaveChanges();
    }
}

```

EFGetDrinkCommand

```

public class EFGetDrinkCommand : EFBaseCommand, IGetDrinkCommand
{
    public EFGetDrinkCommand(DBContext context) : base(context)
    {
    }

    public IEnumerable<CreateDrinkDTO> Execute(int id)
    {
        var query = _context.Drinks.AsQueryable();

        if(!_context.Drinks.Any(d => d.Id == id))
        {
            query = query.Where(d => d.Id == id);
        }
        else
        {
            throw new NotFoundException();
        }

        return query.Select(d => new CreateDrinkDTO
        {
            Id = d.Id,
            DrinkName = d.DrinkName,
            Price = d.Price
        });
    }
}

```

EFGetDrinksCommand

```
public class EFGetDrinksCommand : EFBBaseCommand, IGetDrinksCommand
{
    public EFGetDrinksCommand(DBContext context) : base(context)
    {
    }

    public PagedResponse<CreateDrinkDTO> Execute(DrinkSearch request)
    {
        var query = _context.Drinks.AsQueryable();

        if (request.DrinkName != null)
        {
            var drinName = request.DrinkName.ToLower();

            query = query.Where(d => d.DrinkName.ToLower().Contains(drinName));
        }

        if (request.MaxPrice.HasValue)
        {
            query = query.Where(d => d.Price >= request.MaxPrice);
        }

        if (request.MinPrice.HasValue)
        {
            query = query.Where(d => d.Price <= request.MinPrice);
        }

        if (request.Id.HasValue)
        {
            query = query.Where(d => d.Id == request.Id);
        }

        var TotalCount = query.Count();

        query = query
            .Skip((request.PageNumber - 1) * request.PerPage)
            .Take(request.PerPage);

        var pageCount = (int)Math.Ceiling((double)TotalCount / request.PerPage);

        var response = new PagedResponse<CreateDrinkDTO>
        {
            CurrentPage = request.PageNumber,
            TotalCount = TotalCount,
            PageCount = pageCount,
            Data = query
                .Select(d => new CreateDrinkDTO
                {
                    Id = d.Id,
                    DrinkName = d.DrinkName,
                    Price = d.Price
                })
        }
    }
}
```

```

        })
    };

    return response;
}
}

```

ImpressionController

Pretraga I paginacija: Pretraga se moze odraditi preko

- Content
- PerPage
- CountPage

```

public class ImpressionController : ControllerBase
{
    private IAddImpresssionCommand _addImpressionCommand;
    private IDeleteImpressionCommand _deleteImpressionCommand;
    private IGetImpressionCommand _getImpressionCommand;
    private IEditImpressionCommand _editImpressionCommand;
    private IGetImpressionsCommand _getImpressionsCommand;
    private readonly LoggedUser _user;

    public ImpressionController(IAddImpresssionCommand addImpressionCommand,
        IDeleteImpressionCommand deleteImpressionCommand, IGetImpressionCommand
        getImpressionCommand, IEditImpressionCommand editImpressionCommand, IGetImpressionsCommand
        getImpressionsCommand, LoggedUser user)
    {
        _addImpressionCommand = addImpressionCommand;
        _deleteImpressionCommand = deleteImpressionCommand;
        _getImpressionCommand = getImpressionCommand;
        _editImpressionCommand = editImpressionCommand;
        _getImpressionsCommand = getImpressionsCommand;
        _user = user;
    }

    // GET: api/Impression

    [HttpGet]
    public ActionResult<IEnumerable<ImpressionDTO>> Get([FromQuery] ImpressSearch
request)
    {
        try
        {
            var search = _getImpressionsCommand.Execute(request);
            return Ok(search);
        }
    }
}

```

```

        }catch(NotFoundException)
        {
            return NotFound();
        }catch(Exception)
        {
            return StatusCode(500, "Server error, try later");
        }
    }

    // GET: api/Impression/5
    [HttpGet("{id}")]
    public ActionResult<ImpressionDTO> Get(int id)
    {
        try
        {
            var res = _getImpressionCommand.Execute(id);
            return Ok(res);
        }catch(NotFoundException)
        {
            return NotFound();
        }catch(Exception)
        {
            return StatusCode(500, "Server error, try later");
        }
    }

    // POST: api/Impression
    [HttpPost]
    public ActionResult Post([FromBody] ImpressionDTO value)
    {
        try
        {
            _addImpressionCommand.Execute(value);
            return StatusCode(201, "Impression is create");
        }
        catch (NotFoundException)
        {
            return NotFound();
        }
        catch (Exception)
        {
            return StatusCode(500, "Server error, try later");
        }
    }

    // PUT: api/Impression/5
    [HttpPut("{id}")]
    public ActionResult Put(int id, [FromBody] ImpressionEditDTO value)
    {
        try
        {
            _editImpressionCommand.Execute(value);
            return NoContent();
        }catch(NotFoundException)
        {
            return NotFound();
        }catch(Exception)
    }

```

```

        {
            return StatusCode(500, "Server error, try later");
        }
    }

    // DELETE: api/ApiWithActions/5
    [HttpDelete("{id}")]
    public ActionResult Delete(int id)
    {
        try
        {
            _deleteImpressionCommand.Execute(id);
            return NoContent();
        } catch (NotFoundException)
        {
            return NotFound();
        } catch (Exception)
        {
            return StatusCode(500, "Server error, try later");
        }
    }
}

```

ImpressionDTO

```

public class ImpressionDTO
{
    public int Id { get; set; }
    [MinLength(5, ErrorMessage = "Content can not be short than 3")]

    [Required(ErrorMessage = "Content is required")]
    public string Content { get; set; }

    [Required(ErrorMessage = "User ID is required")]
    public int UserId { get; set; }
    public string NameSurname { get; set; }
}

```

ImpressionEditDTO

```

public class ImpressionEditDTO
{
    public int Id { get; set; }
    [MinLength(5, ErrorMessage = "Content can not be short than 3")]
    [MaxLength(100, ErrorMessage = "Max character for Content is 100")]
    [Required(ErrorMessage = "Content is required")]
    public string Content { get; set; }
}

```


Application/Commands/ImpressionComm and

```
public interface IAddImpresssionCommand : ICommand<ImpressionDTO>

public interface IDeleteImpressionCommand : ICommand<int>

public interface IEditImpressionCommand:ICommand<ImpressionEditDTO>

public interface IGetAllImpressionWebCommand : ICommand<ImpressionSearchWeb,
IEnumerable<ImpressionDTO>>

public interface IGetImpressionCommand : ICommand<int, ImpressionDTO>

public interface IGetImpressionsCommand :
ICommand<ImpressSearch, PagedResponse<ImpressionDTO>>

public interface IGetImpressionWebCommand : ICommand<int, ImpressionEditDTO>
```

EFAddImpressionCommand

```
public class EFAddImpressionCommand : EFBaseCommand, IAddImpresssionCommand
{
    public EFAddImpressionCommand(DBContext context) : base(context)
    {
    }

    public void Execute(ImpressionDTO request)
    {
        if (!_context.Users.Any(u => u.Id == request.UserId))
        {
        }
        else
        {
            throw new NotFoundException();
        }

        _context.Impressions.Add(new Impression {
            Content = request.Content,
            UserId = request.UserId
        });

        _context.SaveChanges();
    }
}
```

EFDeleteIC

```
public class EFDeleteImpressionCommand : EFBaseCommand, IDeleteImpressionCommand
{
    public EFDeleteImpressionCommand(DBContext context) : base(context)
    {
    }

    public void Execute(int id)
    {
        var search = _context.Impressions.Find(id);

        if(search == null)
        {
            throw new NotFoundException();
        }

        _context.Impressions.Remove(search);

        _context.SaveChanges();
    }
}
```

EFEDIT

```
public class EFEditImpressionCommand : EFBaseCommand, IEditImpressionCommand
{
    public EFEditImpressionCommand(DBContext context) : base(context)
    {
    }

    public void Execute(ImpressionEditDTO request)
    {
        var searches = _context.Impressions.Find(request.Id);

        if(searches == null)
        {
            throw new NotFoundException();
        }

        searches.Content = request.Content;

        _context.SaveChanges();
    }
}
```

EFGetAllImpressionWebCommand

```

public class EFGetAllImpressionWebCommand : EFBaseCommand, IGetAllImpressionWebCommand
{
    public EFGetAllImpressionWebCommand(DBContext context) : base(context)
    {
    }

    public IEnumerable<ImpressionDTO> Execute(ImpressionSearchWeb request)
    {
        var query = _context.Impressions.AsQueryable();

        if (request.Content != null)
        {
            var content = request.Content.ToLower();

            query = query.Where(i => i.Content.ToLower().Contains(content));
        }

        return query.Select(i => new ImpressionDTO
        {
            Id = i.Id,
            Content = i.Content,
            UserId = i.UserId,
            NameSurname = i.User.Name + " " + i.User.Surname
        });
    }
}

```

EFGetImpression

```

public class EFGetImpressionCommand : EFBaseCommand, IGetImpressionCommand
{
    public EFGetImpressionCommand(DBContext context) : base(context)
    {
    }

    public ImpressionDTO Execute(int id)
    {
        var obj = _context.Impressions.Find(id);

        if (obj == null)
        {
            throw new NotFoundException();
        }

        var user = _context.Users.Find(obj.UserId);

        return new ImpressionDTO
        {
            Id = obj.Id,
            Content = obj.Content,
            UserId = obj.UserId,
            NameSurname = user.Name + " " + user.Surname
        }
    }
}

```

```

    };

    }
}

```

EFGetImpressionsCommand

```

public class EFGetImpressionsCommand : EFBBaseCommand, IGetImpressionsCommand
{
    public EFGetImpressionsCommand(DBContext context) : base(context)
    {
    }

    public PagedResponse<ImpressionDTO> Execute(ImpressSearch request)
    {
        var query = _context.Impressions.AsQueryable();

        if(request.Content != null)
        {
            var content = request.Content.ToLower();

            query = query.Where(i => i.Content.ToLower().Contains(content));
        }

        var totalCount = query.Count();

        query = query.Skip((request.PageNumber - 1) *
request.PerPage).Take(request.PerPage);

        var pageCount = (int)Math.Ceiling((double)totalCount / request.PerPage);

        var response = new PagedResponse<ImpressionDTO>
        {
            TotalCount = totalCount,
            CurrentPage = request.PageNumber,
            PageCount = pageCount,
            Data = query.Include(u => u.User)
                .Select(i => new ImpressionDTO
                {
                    Id = i.Id,
                    Content = i.Content,
                    UserId = i.UserId,
                    NameSurname = i.User.Name + " " + i.User.Surname
                })
        };

        return response;
    }
}

```

EFGetImpressionWebCommand

```
public class EFGetImpressionWebCommand : EFBBaseCommand, IGetImpressionWebCommand
{
    public EFGetImpressionWebCommand(DBContext context) : base(context)
    {
    }

    public ImpressionEditDTO Execute(int id)
    {
        var obj = _context.Impressions.Find(id);

        if (obj == null)
        {
            throw new NotFoundException();
        }

        return new ImpressionEditDTO
        {
            Id = obj.Id,
            Content = obj.Content
        };
    }
}
```

MealController

Pretraga se vrši preko Name

```
public class MealSearch
{
    public string Name { get; set; }
    public int PerPage { get; set; } = 4;
    public int PageNumber { get; set; } = 1;
}

public class MealController : ControllerBase
{
    private IAddMealCommand _addMealCommand;
    private IDeleteMealCommand _deleteMealCommand;
    private IGetMealCommand _getMealCommand;
    private IGetMealsCommand _getMealsCommand;
    private IEditMealCommand _editMealCommand;

    public MealController(IAddMealCommand addMealCommand,
        IDeleteMealCommand deleteMealCommand,
        IGetMealCommand getMealCommand,
```

```

        IGetMealsCommand getMealsCommand,
        IEditMealCommand editMealCommand)
    {
        _addMealCommand = addMealCommand;
        _deleteMealCommand = deleteMealCommand;
        _getMealCommand = getMealCommand;
        _getMealsCommand = getMealsCommand;
        _editMealCommand = editMealCommand;
    }

    // GET: api/Meal
    [HttpGet]
    public ActionResult<IEnumerable<MealGetDTO>> Get([FromQuery] MealSearch request)
    {
        try
        {
            var meals = _getMealsCommand.Execute(request);
            return Ok(meals);
        } catch (Exception)
        {
            return StatusCode(500, "Server error, try later");
        }
    }

    // GET: api/Meal/5
    [HttpGet("{id}")]
    public ActionResult<IEnumerable<MealGetDTO>> Get(int id)
    {
        try
        {
            var meal = _getMealCommand.Execute(id);
            return Ok(meal);
        } catch (NotFoundException)
        {
            return StatusCode(404, "Meal not found or meal is deleted");
        } catch (Exception)
        {
            return StatusCode(500, "Server error, try later");
        }
    }

    // POST: api/Meal
    [HttpPost]
    public ActionResult Post([FromBody] MealCreatedDTO value)
    {
        try
        {
            _addMealCommand.Execute(value);
            return StatusCode(201, "Meal is succesfully create");
        } catch (AlredyExistException)
        {
            return StatusCode(422, "Name of meal alredy exist");
        } catch (Exception)
        {
            return StatusCode(500, "Server error, try later");
        }
    }

```

```

    }

    // PUT: api/Meal/5
    [HttpPut("{id}")]
    public ActionResult Put(int id, [FromBody] MealGetDTO value)
    {
        try
        {
            _editMealCommand.Execute(value);
            return NoContent();
        } catch (NotFoundException)
        {
            return NotFound();
        } catch (AlredyExistException)
        {
            return StatusCode(422, "Name alredy exist");
        }
    }

    // DELETE: api/ApiWithActions/5
    [HttpDelete("{id}")]
    public ActionResult Delete(int id)
    {
        try
        {
            _deleteMealCommand.Execute(id);
            return NoContent();
        } catch (NotFoundException)
        {
            return NotFound();
        } catch (Exception)
        {
            return StatusCode(500, "Server error, try later");
        }
    }
}

```

MealGetDTO

```

public class MealGetDTO
{
    public int Id { get; set; }
    public string Name { get; set; }

    public string Start { get; set; }

    public string Finish { get; set; }

    public bool IsDeleted { get; set; }
}

```

MealCreateDTO

```
public class MealCreateDTO
{
    [Required(ErrorMessage = "Name is required")]
    [MaxLength(10, ErrorMessage = "Max char for Name is 10")]
    [MinLength(3, ErrorMessage = "Min char for Name is 3")]
    public string Name { get; set; }
    [Required(ErrorMessage = "Start is required")]
    [MaxLength(2, ErrorMessage = "Max char for Start is 3")]
    [Range(6, 23, ErrorMessage = "Range for Start is 6 - 23 h")]
    public string Start { get; set; }
    [Required(ErrorMessage = "Finish is required")]
    [MaxLength(2, ErrorMessage = "Max char for Finish is 3")]
    [Range(6, 23, ErrorMessage = "Range for Finish is 6 - 23 h")]
    public string Finish { get; set; }
}
```

EFAddMeal

```
public class EFAddMealCommand : EFBaseCommand, IAddMealCommand
{
    public EFAddMealCommand(DBContext context) : base(context)
    {
    }

    public void Execute(MealCreateDTO request)
    {
        if(_context.Meals.Any(m => m.Name == request.Name))
        {
            throw new AlredyExistException();
        }

        _context.Meals.Add(new Meal {
            Name = request.Name,
            Start = request.Start,
            Finish = request.Finish
        });

        _context.SaveChanges();
    }
}
```

EFDeleteMeal

```
public class EFDeleteMealCommand : EFBaseCommand, IDeleteMealCommand
{
    public EFDeleteMealCommand(DBContext context) : base(context)
    {
    }
}
```



```

    }

    public void Execute(int id)
    {
        var meal = _context.Meals.Find(id);

        if(meal == null)
        {
            throw new NotFoundException();
        }

        meal.IsDeleted = true;
        _context.SaveChanges();
    }
}

```

EFEditMeal

```

public class EFEditMealCommand : EFBaseCommand, IEditMealCommand
{
    public EFEditMealCommand(DBContext context) : base(context)
    {
    }

    public void Execute(MealGetDTO request)
    {
        var search = _context.Meals.Find(request.Id);

        if(search == null)
        {
            throw new NotFoundException();
        }

        if(request.Name != null)
        {
            if(!_context.Meals.Any(m => m.Name == request.Name))
            {
                search.Name = request.Name;
            }
            else
            {
                throw new AlredyExistException();
            }
        }

        if(request.Start != null)
        {
            if(search.Start != request.Start)
            {
                search.Start = request.Start;
            }
        }

        if (request.Finish != null)
    }
}

```

```

        {
            if (search.Finish != request.Finish)
            {
                search.Finish = request.Finish;
            }
        }

        if (search.IsDeleted != request.IsDeleted)
        {
            search.IsDeleted = request.IsDeleted;
        }

        _context.SaveChanges();
    }
}

```

GetMealCommand

```

public class EFGetMealCommand : EFBaseCommand, IGetMealCommand
{
    public EFGetMealCommand(DBContext context) : base(context)
    {
    }

    public IEnumerable<MealGetDTO> Execute(int id)
    {
        var query = _context.Meals.AsQueryable();

        if (_context.Meals.Any(m => m.Id == id && m.IsDeleted == false))
        {
            query = query.Where(m => m.Id == id);
        }
        else
        {
            throw new NotFoundException();
        }

        return query.Select(m => new MealGetDTO {
            Id = m.Id,
            Name = m.Name,
            Start = m.Start + " h",
            Finish = m.Finish + " h",
            IsDeleted = m.IsDeleted
        });
    }
}

```

GetMealsCommand

```

public class EFGetMealsCommand : EFBaseCommand, IGetMealsCommand
{
    public EFGetMealsCommand(DBContext context) : base(context)
    {
    }

    public PagedResponse<MealGetDTO> Execute(MealSearch request)
    {
        var query = _context.Meals.AsQueryable();

        if (request.Name != null)
        {
            var name = request.Name.ToLower();
            query = query.Where(m => m.Name.ToLower().Contains(name));
        }

        var totalCount = query.Count();

        query = query.Skip((request.PageNumber - 1) * request.PerPage)
            .Take(request.PerPage);

        var pageCount = (int)Math.Ceiling((double)totalCount / request.PerPage);

        var response = new PagedResponse<MealGetDTO>
        {
            CurrentPage = request.PageNumber,
            TotalCount = totalCount,
            PageCount = pageCount,
            Data = query.Select(m => new MealGetDTO
            {
                Id = m.Id,
                Name = m.Name,
                Start = m.Start + " h",
                Finish = m.Finish + " h",
                IsDeleted = m.IsDeleted
            })
        };
        return response;
    }
}

```

EFGetWebMealCommand

```

public class EFGetWebMealsCommand : EFBaseCommand, IGetWebMealsCommand
{
    public EFGetWebMealsCommand(DBContext context) : base(context)
    {
    }

    public IEnumerable<MealGetDTO> Execute(ClassForNullObj request)
    {
        var obj = _context.Meals.AsQueryable();
    }
}

```

```

        return obj.Select(m => new MealGetDTO {
            Id = m.Id,
            Name = m.Name
        });
    }
}

```

MeniController

Moze se pretraziti putem NameFood. Slika je obavezna pri dodavanju I izmeni.

```

public class MeniSearch
{
    public string NameFood { get; set; }
    public int PerPage { get; set; } = 4;
    public int PageNumber { get; set; } = 1;
}

public class MeniController : ControllerBase
{
    private IAddMeniCommand _addMeniCommand;
    private IGetMeniCommand _getMeniCommand;
    private IGetMeniesCommand _getMeniesCommand;
    private IEditMeniCommand _editMeniCommand;
    private IDeleteMeniCommand _deleteMeniCommand;

    public MeniController(IAddMeniCommand addMeniCommand,
        IGetMeniCommand getMeniCommand,
        IGetMeniesCommand getMeniesCommand,
        IEditMeniCommand editMeniCommand,
        IDeleteMeniCommand deleteMeniCommand)
    {
        _addMeniCommand = addMeniCommand;
        _getMeniCommand = getMeniCommand;
        _getMeniesCommand = getMeniesCommand;
        _editMeniCommand = editMeniCommand;
        _deleteMeniCommand = deleteMeniCommand;
    }

    // GET: api/Meni
    [HttpGet]
    public ActionResult<IEnumerable<MeniGetDTO>> Get([FromQuery] MeniSearch request)
    {
        try
        {
            var menies = _getMeniesCommand.Execute(request);
            return Ok(menies);
        }
    }
}

```

```

        }catch(Exception)
        {
            return StatusCode(500, "Server error try later");
        }
    }

    // GET: api/Meni/5
    [HttpGet("{id}")]
    public ActionResult<IEnumerable<MeniGetDTO>> Get(int id)
    {
        try
        {
            var search = _getMeniCommand.Execute(id);
            return Ok(search);
        }catch(NotFoundException)
        {
            return NotFound();
        }
        catch (Exception)
        {
            return StatusCode(500, "Server error try later");
        }
    }

    // POST: api/Meni
    [HttpPost]
    public ActionResult Post([FromForm] HttpSlikaDTO p)
    {
        var ext = Path.GetExtension(p.Image.FileName); //daje ekstenziju .jpg

        if (!FileUpload.AllowExtensions.Contains(ext))
        {
            return UnprocessableEntity("Image extension is not allowed.");
        }

        try
        {
            var newFileName = Guid.NewGuid().ToString() + "_" +
p.Image.FileName; //unique za ime fajla

            var filePath = Path.Combine(Directory.GetCurrentDirectory(), "wwwroot",
"uploads", newFileName);

            p.Image.CopyTo(new FileStream(filePath, FileMode.Create));

            var dto = new MeniAddDTO
            {
                NameFood = p.NameFood,
                Ingradiant = p.Ingradiant,
                FileName = newFileName,
                Price = p.Price,
                MealId = p.MealId
            };

```

```

        _addMeniCommand.Execute(dto);
        return NoContent();
    }
    catch (NotFoundException)
    {
        return StatusCode(404, "Meal of food not found");
    }
    catch (AlredyExistException)
    {
        return StatusCode(422, "Name of food alredy exist");
    }
    catch (Exception)
    {
        return StatusCode(500, "Server error try later");
    }
}

// PUT: api/Meni/5
[HttpPut("{id}")]
public ActionResult Put(int id, [FromForm] HttpSlikaUpdatedDTO p)
{
    var ext = Path.GetExtension(p.Image.FileName); //daje ekstenziju .jpg

    if (!FileUpload.AllowExtensions.Contains(ext))
    {
        return UnprocessableEntity("Image extension is not allowed.");
    }

    try
    {
        var newFileName = Guid.NewGuid().ToString() + "_" +
p.Image.FileName; //unique za ime fajla

        var filePath = Path.Combine(Directory.GetCurrentDirectory(), "wwwroot",
"uploads", newFileName);

        p.Image.CopyTo(new FileStream(filePath, FileMode.Create));

        var dto = new MeniAddDTO
        {
            Id = p.Id,
            NameFood = p.NameFood,
            Ingradiant = p.Ingradiant,
            FileName = newFileName,
            Price = p.Price,
            MealId = p.MealId
        };

        _editMeniCommand.Execute(dto);
        return NoContent();
    }
    catch (NotFoundException)
    {
        return StatusCode(404, "Meal id not found or id of meni");
    }
    catch (AlredyExistException)

```

```

        {
            return StatusCode(422, "Name of food already exist");
        }
        catch (Exception)
        {
            return StatusCode(500, "Server error try later");
        }
    }

    // DELETE: api/ApiWithActions/5
    [HttpDelete("{id}")]
    public ActionResult Delete(int id)
    {
        try
        {
            {
                _deleteMeniCommand.Execute(id);
                return NoContent();
            }
            catch (NotFoundException)
            {
                return NotFound();
            }
            catch (Exception)
            {
                return StatusCode(500, "Server error try later");
            }
        }
    }
}

```

MeniEditDTO

```

public class EditMeniDTO
{
    public int Id { get; set; }
    [MaxLength(30, ErrorMessage = "Max lenght for name food is 30")]
    [MinLength(5, ErrorMessage = "min lenght for name food is 5")]
    public string NameFood { get; set; }

    [MinLength(5, ErrorMessage = "Min lenght for Ingradiant is 5")]
    public string Ingradiant { get; set; }

    public string Price { get; set; }
    [Required(ErrorMessage = "Meal of food is required")]
    public int MealId { get; set; }

    public IFormFile Image { get; set; }
}

```

MeniAddDTO

```

public class MeniAddDTO

```

```

{
    public int Id { get; set; }
    public string NameFood { get; set; }
    public string Ingradiant { get; set; }
    public string Price { get; set; }
    public string FileName { get; set; }

    public int MealId { get; set; }

```

MeniGetDTO

```

public class MeniGetDTO
{
    public int Id { get; set; }
    public string NameFood { get; set; }
    public string Ingradiant { get; set; }
    public string Price { get; set; }
    public string FileName { get; set; }
    public string MealName { get; set; }
    public string Alt { get; set; }

}

```

HttpSlika DTO za dodavanje

```

public class HttpSlikaDTO
{
    [Required(ErrorMessage = "Name of food is required")]
    [MaxLength(30, ErrorMessage = "Max lenght for name food is 30")]
    [MinLength(5, ErrorMessage = "min lenght for name food is 5")]
    public string NameFood { get; set; }
    [Required(ErrorMessage = "Ingradiant of food is required")]
    [MinLength(5, ErrorMessage = "Min lenght for Ingradiant is 5")]
    public string Ingradiant { get; set; }
    [Required(ErrorMessage = "Price of food is required")]

    public string Price { get; set; }
    [Required(ErrorMessage = "Meal of food is required")]
    public int MealId { get; set; }

    public IFormFile Image { get; set; }
}

```

HttpSlikaZaEDitDTO

```

public class HttpSlikaUpdateDTO
{
    public int Id { get; set; }

```



```

[MaxLength(30, ErrorMessage = "Max lenght for name food is 30")]
[MinLength(5, ErrorMessage = "min lenght for name food is 5")]
public string NameFood { get; set; }

[MinLength(5, ErrorMessage = "Min lenght for Ingradiant is 5")]
public string Ingradiant { get; set; }

public string Price { get; set; }
[Required(ErrorMessage = "Meal of food is required")]
public int MealId { get; set; }

public IFormFile Image { get; set; }
}
}

```

EFAddMEni

```

public class EFAddMeniCommand : EFBaseCommand, IAddMeniCommand
{
    public EFAddMeniCommand(DBContext context) : base(context)
    {
    }

    public void Execute(MeniAddDTO request)
    {
        if(_context.Menis.Any(m => m.NameFood == request.NameFood))
        {
            throw new AlredyExistException();
        }

        if(_context.Meals.Any(m => m.Id == request.MealId))
        {
        }
        else
        {
            throw new NotFoundException();
        }

        var image = new Image
        {
            Putanja = request.FileName,
            Alt = request.NameFood
        };

        _context.Add(new Meni {
            NameFood = request.NameFood,
            Ingradiant = request.Ingradiant,
            Price = request.Price,
            MealId = request.MealId,
            Image = image
        });
    }
}

```

```

        _context.SaveChanges();
    }
}

```

EFDelete

```

public class EFDeleteMenicommand : EFBaseCommand, IDeleteMeniCommand
{
    public EFDeleteMenicommand(DBContext context) : base(context)
    {
    }

    public void Execute(int id)
    {
        var meni = _context.Menis.Find(id);

        if(meni == null)
        {
            throw new NotFoundException();
        }

        var idSlike = meni.ImageId;
        var slika = _context.Images.Find(idSlike);

        _context.Remove(slika);
        _context.Remove(meni);
        _context.SaveChanges();
    }
}

```

EFEdit

```

public class EFEditMeniCommand : EFBaseCommand, IEditMeniCommand
{
    public EFEditMeniCommand(DBContext context) : base(context)
    {
    }

    public void Execute(MeniAddDTO request)
    {
        var meni = _context.Menis.Find(request.Id);

        if(meni == null)
        {
            throw new NotFoundException();
        }

        if (request.NameFood != null)
        {

```

```

        if (!_context.Menis.Any(m => m.NameFood == request.NameFood))
        {
            meni.NameFood = request.NameFood;
        }
        else
        {
            throw new AlredyExistException();
        }
    }

    if (request.Ingradiant != null)
    {
        if(meni.Ingrediant != request.Ingradiant)
        {
            meni.Ingrediant = request.Ingradiant;
        }
    }

    if (request.Price != null)
    {
        if (meni.Price != request.Price)
        {
            meni.Price = request.Price;
        }
    }

    if (request.FileName != null)
    {
        var idSlike = meni.ImageId;
        var slika = _context.Images.Find(idSlike);
        slika.Putanja = request.FileName;
    }

    if(meni.MealId != request.MealId)
    {
        if(_context.Meals.Any(m => m.Id == request.MealId))
        {
            meni.MealId = request.MealId;
        }
        else
        {
            throw new NotFoundException();
        }
    }

    _context.SaveChanges();
}
}
}

```

EFGetMeniesWeb

```
public class EFGetAllMeniesCommandWeb : EFBBaseCommand, IGetAllMeniesCommandWeb
{
    public EFGetAllMeniesCommandWeb(DBContext context) : base(context)
    {
    }

    public IEnumerable<MeniGetDTO> Execute(MeniSearchWeb request)
    {
        var query = _context.Menis.AsQueryable();

        if (request.NameFood != null)
        {
            var name = request.NameFood.ToLower();

            query = query.Where(m => m.NameFood.ToLower()
                .Contains(name)
                && m.IsDeleted == false);
        }

        return query.Select(m => new MeniGetDTO
        {
            Id = m.Id,
            NameFood = m.NameFood,
            Ingradiant = m.Ingradiant,
            Price = m.Price,
            FileName = m.Image.Putanja,
            Alt = m.Image.Alt,
            MealName = m.Meal.Name
        });
    }
}
```

GetEditWeb

```
public class EFGetEditMeniCommand : EFBBaseCommand, IGetEditMeniCommand
{
    public EFGetEditMeniCommand(DBContext context) : base(context)
    {
    }

    public HttpEditMeni Execute(int request)
    {
        var obj = _context.Menis.Find(request);
        if(obj == null)
        {
            throw new NotFoundException();
        }
    }
}
```

```

        return new HttpEditMeni
        {
            Id = obj.Id,
            NameFood = obj.NameFood,
            Ingradiant = obj.Ingradiant,
            Price = obj.Price,
            MealId = obj.MealId
        };
    }
}

```

EFGetMeniCommand

```

public class EFGetMeniCommand : EFBBaseCommand, IGetMeniCommand
{
    public EFGetMeniCommand(DBContext context) : base(context)
    {
    }

    public IEnumerable<MeniGetDTO> Execute(int id)
    {
        var query = _context.Menis.AsQueryable();

        if (_context.Menis.Any(m => m.Id == id))
        {
            query = query.Where(m => m.Id == id);
        }
        else
        {
            throw new NotFoundException();
        }

        return query.Select(m => new MeniGetDTO {
            Id = m.Id,
            NameFood = m.NameFood,
            Ingradiant = m.Ingradiant,
            Price = m.Price,
            FileName = m.Image.Putanja,
            Alt = m.Image.Alt,
            MealName = m.Meal.Name
        });
    }
}

```

EFgetMeniesCommand

```

public class EFGetMeniesCommand : EFBBaseCommand, IGetMeniesCommand
{
    public EFGetMeniesCommand(DBContext context) : base(context)
    {
    }
}

```

```

    }

    public PagedResponse<MeniGetDTO> Execute(MeniSearch request)
    {
        var query = _context.Menis.AsQueryable();

        if (request.NameFood != null)
        {
            var name = request.NameFood.ToLower();

            query = query.Where(m => m.NameFood.ToLower()
                .Contains(name)
                && m.IsDeleted == false);
        }

        var totalCount = query.Count();

        query = query.Skip((request.PageNumber - 1) * request.PerPage)
            .Take(request.PerPage);

        var pageCount = (int)Math.Ceiling((double)totalCount / request.PerPage);

        var response = new PagedResponse<MeniGetDTO>
        {
            CurrentPage = request.PageNumber,
            TotalCount = totalCount,
            PageCount = pageCount,
            Data = query.Select(m => new MeniGetDTO {
                Id = m.Id,
                NameFood = m.NameFood,
                Ingradiant = m.Ingrediant,
                Price = m.Price,
                FileName = m.Image.Putanja,
                Alt = m.Image.Alt,
                MealName = m.Meal.Name
            })
        };

        return response;
    }
}

```

EFGetMeniWebCommand

```

public class EFGetMeniWebCommand : EFBaseCommand, IGetMeniWebCommand
{
    public EFGetMeniWebCommand(DBContext context) : base(context)
    {
    }

    public MeniGetDTO Execute(int request)
    {
        var obj = _context.Menis.Find(request);
    }
}

```

```

        if (obj == null)
        {
            throw new NotFoundException();
        }
        var img = _context.Images.Find(obj.ImageId);
        var meal = _context.Meals.Find(obj.MealId);

        return new MeniGetDTO
        {
            Id = obj.Id,
            NameFood = obj.NameFood,
            Ingradiant = obj.Ingrediant,
            Price = obj.Price,
            FileName = img.Putanja,
            Alt = img.Alt,
            MealName = meal.Name
        };
    }
}

```

ReservationController

Rezervacija moze da se pretrazi preko Name tj imena usera koji je kreirao

```

public class ReservationController : ControllerBase
{
    private IAddReservationCommand _addReservationCommand;
    private IDeleteReservationCommand _deleteReservationCommand;
    private IGetReservationCommand _getReservationCommand;
    private IEditReservationCommand _editReservationCommand;
    private IGetReservationsCommand _getReservationsCommand;

    public ReservationController(IAddReservationCommand addReservationCommand,
        IDeleteReservationCommand deleteReservationCommand, IGetReservationCommand
        getReservationCommand, IEditReservationCommand editReservationCommand,
        IGetReservationsCommand getReservationsCommand)
    {
        _addReservationCommand = addReservationCommand;
        _deleteReservationCommand = deleteReservationCommand;
        _getReservationCommand = getReservationCommand;
        _editReservationCommand = editReservationCommand;
        _getReservationsCommand = getReservationsCommand;
    }

    // GET: api/Reservation

```

```

[HttpGet]
public ActionResult<IEnumerable<ReservationGetDTO>> Get([FromQuery]
ReservationSearch request)
{
    try
    {
        var response = _getReservationsCommand.Execute(request);
        return Ok(response);
    }
    catch
    {
        return StatusCode(500, "Server error, try later");
    }
}

```

// GET: api/Reservation/5

[HttpGet("{id}")]

```

public ActionResult<IEnumerable<ReservationGetDTO>> Get(int id)
{
    try
    {
        var res = _getReservationCommand.Execute(id);
        return Ok(res);
    } catch (NotFoundException)
    {
        return NotFound();
    } catch (Exception)
    {
        return StatusCode(500, "Server error, try later");
    }
}

```

// POST: api/Reservation

[HttpPost]

```

public ActionResult Post([FromBody] ReservationDTO value)
{
    try
    {
        _addReservationCommand.Execute(value);
        return StatusCode(201, "Reservation create");
    } catch (DataCanNotBeNull)
    {
        return StatusCode(422, "Guest can not be null");
    } catch (NotFoundException)
    {
        return StatusCode(404, "User not found");
    }
    catch (Exception)
    {
        return StatusCode(500, "Server error, try later");
    }
}

```

// PUT: api/Reservation/5

[HttpPut("{id}")]

```

public ActionResult Put(int id, [FromBody] ReservationEditDTO value)
{

```



```

        try
        {
            _editReservationCommand.Execute(value);
            return NoContent();
        } catch (AlredyExistException)
        {
            return StatusCode(422, "Any of parameters alredy exit value");
        }
        catch (NotFoundException)
        {
            return NotFound();
        } catch (Exception)
        {
            return StatusCode(500, "Server error, try later");
        }
    }

    // DELETE: api/ApiWithActions/5
    [HttpDelete("{id}")]
    public ActionResult Delete(int id)
    {
        try
        {
            _deleteReservationCommand.Execute(id);
            return NoContent();
        } catch (NotFoundException)
        {
            return NotFound();
        } catch (Exception)
        {
            return StatusCode(500, "Server error, try later");
        }
    }
}

```

ReservationDTO

```

public class ReservationDTO
{
    public int Id { get; set; }
    [Required(ErrorMessage = "Reservation date is required")]
    public DateTime ReservationDate { get; set; }
    [Required(ErrorMessage = "Numper guest is required")]
    public int Guest { get; set; }
    [Required(ErrorMessage = "Time date is required")]
    [MaxLength(2, ErrorMessage = "Max char for Time is 3")]
    [Range(6, 23, ErrorMessage = "Range for time is 6 - 23 h")]
    public string Time { get; set; }
    [Required(ErrorMessage = "User is required")]
    public int UserId { get; set; }
}

```

EFAdd

```
public class EFAddReservationCommand : EFBBaseCommand, IAddReservationCommand
{
    public EFAddReservationCommand(DBContext context) : base(context)
    {
    }

    public void Execute(ReservationDTO request)
    {
        if(request.Guest <= 0)
        {
            throw new DataCanNotBeNull();
        }

        if(!_context.Users.Any(u => u.Id == request.UserId))
        {
            throw new NotFoundException();
        }

        _context.Reservations.Add(new Reservation
        {
            ReservationDate = request.ReservationDate,
            Guest = request.Guest,
            Time = request.Time,
            UserId = request.UserId
        });

        _context.SaveChanges();
    }
}
```

EFDelete

```
public class EFDeleteReservationCommand : EFBBaseCommand, IDeleteReservationCommand
{
    public EFDeleteReservationCommand(DBContext context) : base(context)
    {
    }

    public void Execute(int id)
    {
        var res = _context.Reservations.Find(id);

        if(res == null)
        {
            throw new NotFoundException();
        }

        _context.Remove(res);
    }
}
```

```

        _context.SaveChanges();
    }
}

```

EFEditReservation

```

public class EFEditReservationCommand : EFBaseCommand, IEditReservationCommand
{
    public EFEditReservationCommand(DBContext context) : base(context)
    {
    }

    public void Execute(ReservationEditDTO request)
    {
        var reservation = _context.Reservations.Find(request.Id);

        if (reservation == null)
        {
            throw new NotFoundException();
        }

        if (request.ReservationDate != null)
        {
            if (reservation.ReservationDate != request.ReservationDate)
            {
                reservation.ReservationDate = request.ReservationDate;
            }
            else
            {
                throw new AlredyExistException();
            }
        }

        if (request.Guest != null)
        {
            if (reservation.Guest != request.Guest)
            {
                reservation.Guest = (int)request.Guest;
            }
            else
            {
                throw new AlredyExistException();
            }
        }

        if (request.Time != null)
        {
            if (reservation.Time != request.Time)
            {
                reservation.Time = request.Time;
            }
        }
    }
}

```

```

        else
        {
            throw new AlredyExistException();
        }
    }

    _context.SaveChanges();
}
}
}

```

EFGetReservationCommand

```

public class EFGetReservationCommand : EFBBaseCommand, IGetReservationCommand
{
    public EFGetReservationCommand(DBContext context) : base(context)
    {
    }

    public IEnumerable<ReservationGetDTO> Execute(int id)
    {
        var query = _context.Reservations.AsQueryable();

        if (_context.Reservations.Any(r => r.Id == id))
        {
            query = query.Where(r => r.Id == id);
        }
        else
        {
            throw new NotFoundException();
        }

        return query.Include(u => u.User)
            .Select(r => new ReservationGetDTO
            {
                Id = r.Id,
                ReservationDate = r.ReservationDate,
                Guest = r.Guest,
                Time = r.Time + " h",
                UserName = r.User.Name + " " + r.User.Surname
            });
    }
}

```

EFGetReservationsCommand

```

public class EFGetReservationsCommand : EFBBaseCommand, IGetReservationsCommand
{
    public EFGetReservationsCommand(DBContext context) : base(context)
    {
    }
}

```

```

    }

    public PagedResponse<ReservationGetDTO> Execute(ReservationSearch request)
    {
        var query = _context.Reservations.AsQueryable();

        if(request.NameUser != null)
        {
            var name = request.NameUser.ToLower();
            query = query.Where(r => r.User.Name.ToLower().Contains(name));
        }

        var totalCount = query.Count();

        query = query.Skip((request.PageNumber - 1) * request.PerPage)
            .Take(request.PerPage);

        var pageCount = (int)Math.Ceiling((double)totalCount / request.PerPage);

        var response = new PagedResponse<ReservationGetDTO>
        {
            CurrentPage = request.PageNumber,
            TotalCount = totalCount,
            PageCount = pageCount,
            Data = query.Include(u => u.User)
                .Select(r => new ReservationGetDTO
                {
                    Id = r.Id,
                    ReservationDate = r.ReservationDate,
                    Guest = r.Guest,
                    Time = r.Time,
                    UserName = r.User.Name + ' ' + r.User.Surname
                })
        };
        return response;
    }
}

```

RolleController

Pretraga Uloga je omogucena preko:

- RoleName
- Id

- IsDelete
- Keyword

```
public class RuleSearch: BaseSearch
{
    public string RoleName { get; set; }
}

public abstract class BaseSearch
{
    public int? Id { get; set; }
    public string Keyword { get; set; }
    public bool? IsDeleted { get; set; }
}
```

Controller

```
public class RoleController : ControllerBase
{
    private IAddRoleCommand _addRoleCommand;
    private IGetRolesCommand _getRolesCommand;
    private IGetRoleCommand _getRoleCommand;
    private IEditRoleCommand _editRoleCommand;
    private IDeleteRoleCommand _deleteRoleCommand;

    public RoleController(IAddRoleCommand addRoleCommand, IGetRolesCommand
getRolesCommand, IGetRoleCommand getRoleCommand, IEditRoleCommand editRoleCommand,
IDeleteRoleCommand deleteRoleCommand)
    {
        _addRoleCommand = addRoleCommand;
        _getRolesCommand = getRolesCommand;
        _getRoleCommand = getRoleCommand;
        _editRoleCommand = editRoleCommand;
        _deleteRoleCommand = deleteRoleCommand;
    }

    // GET: api/Role
    [HttpGet]
    public ActionResult<IEnumerable<RoleDTO>> GetRole([FromQuery] RuleSearch request)
    {
        try
        {
            var search = _getRolesCommand.Execute(request);
            return Ok(search);
        } catch (Exception)
        {
            return StatusCode(500, "Server error, try later");
        }
    }

    // GET: api/Role/5
```

```

[HttpGet("{id}")]
public ActionResult<IEnumerable<RoleDTO>> GetRole(int id)
{
    try
    {
        var search = _getRoleCommand.Execute(id);
        return Ok(search);
    } catch (NotFoundException)
    {
        return NotFound();
    } catch (Exception)
    {
        return StatusCode(500, "Server error, try later");
    }
}

// POST: api/Role
[HttpPost]
public ActionResult PostRole([FromBody] RoleDTO value)
{
    try
    {
        _addRoleCommand.Execute(value);
        return StatusCode(201, "Create now Role");
    }
    catch (AlredyExistException)
    {
        return StatusCode(422, "This role alredy exist.");
    }
    catch (DataCanNotBeNull)
    {
        return StatusCode(422, "Role name can not be null");
    }
    catch (Exception)
    {
        return StatusCode(500, "Server error, try later");
    }
}

// PUT: api/Role/5
[HttpPut("{id}")]
public ActionResult PutRole(int id, [FromBody] RoleDTO value)
{
    try
    {
        _editRoleCommand.Execute(value);
        return NoContent();
    } catch (AlredyExistException)
    {
        return StatusCode(422, "Role name or isDelete alredy set.");
    } catch (NotFoundException)
    {
        return NotFound();
    } catch (Exception)
    {
        return StatusCode(500, "Server error, try later");
    }
}

```

```

    }
}

// DELETE: api/ApiWithActions/5
[HttpDelete("{id}")]
public ActionResult DeleteRole(int id)
{
    try
    {
        _deleteRoleCommand.Execute(id);
        return NoContent();
    } catch (NotFoundException)
    {
        return NotFound();
    } catch (AlredyExistException)
    {
        return StatusCode(422, "Role is alredy deleted");
    } catch (Exception)
    {
        return StatusCode(500, "Server error, try later");
    }
}
}
}

```

RoleDTO

```

public class RoleDTO
{
    public int Id { get; set; }
    [Required(ErrorMessage = "Name of drink is required")]
    [MinLength(3, ErrorMessage = "Name of drink can not be short than 3")]
    [MaxLength(15, ErrorMessage = "Name of drink can not be loger than 20")]
    public string RoleName { get; set; }
    public bool IsDelete { get; set; }
}

```

EFAddRoleCommand

```

public class EFAddRolleCommand : EFBaseCommand, IAddRolleCommand
{
    public EFAddRolleCommand(DBContext context) : base(context)
    {
    }

    public void Execute(RoleDTO request)
    {
        if(_context.Roles.Any(r => r.NameRole == request.RoleName))
        {
            throw new AlredyExistException();
        }
    }
}

```



```

        if(request.RoleName == null)
        {
            throw new DataCanNotBeNull();
        }

        _context.Add(new Role
        {
            NameRole = request.RoleName
        });

        _context.SaveChanges();
    }
}

```

EFDeleteRole

```

public class EFDeleteRoleCommand : EFBBaseCommand, IDeleteRoleCommand
{
    public EFDeleteRoleCommand(DBContext context) : base(context)
    {
    }

    public void Execute(int id)
    {
        var role = _context.Roles.Find(id);

        if(role == null)
        {
            throw new NotFoundException();
        }

        if(role.IsDeleted == true)
        {
            throw new AlredyExistException();
        }

        role.IsDeleted = true;

        _context.SaveChanges();
    }
}

```

EFEditRole

```

public class EFEditRoleCommand : EFBBaseCommand, IEditRoleCommand
{
    public EFEditRoleCommand(DBContext context) : base(context)
    {
    }
}

```

```

public void Execute(RoleDTO request)
{
    var searchRole = _context.Roles.Find(request.Id);

    if(searchRole == null)
    {
        throw new NotFoundException();
    }

    if(_context.Roles.Any(r => r.NameRole == request.RoleName))
    {
        throw new AlredyExistException();
    }

    if(searchRole.NameRole == request.RoleName)
    {
        throw new AlredyExistException();
    }

    if(searchRole.IsDeleted == request.IsDelete)
    {
        throw new AlredyExistException();
    }

    searchRole.NameRole = request.RoleName;
    searchRole.IsDeleted = request.IsDelete;

    _context.SaveChanges();
}
}
}

```

EFGetRoleCommand

```

public class EFGetRoleCommand : EFBaseCommand, IGetRoleCommand
{
    public EFGetRoleCommand(DBContext context) : base(context)
    {
    }

    public IEnumerable<RoleDTO> Execute(int request)
    {
        var query = _context.Roles.AsQueryable();

        if(_context.Roles.Any(r => r.Id == request))
        {
            query = query.Where(r => r.Id == request);
        }else
        {
            throw new NotFoundException();
        }

        return query.Select(r => new RoleDTO {
            Id = r.Id,

```

```

        RoleName = r.NameRole,
        IsDelete = r.IsDeleted
    });
    }
}

```

EFGetRolesCommand

```

public class EFGetRolesCommand : EFBaseCommand, IGetRolesCommand
{
    public EFGetRolesCommand(DBContext context) : base(context)
    {
    }

    public IEnumerable<RoleDTO> Execute(RuleSearch request)
    {
        var query = _context.Roles.AsQueryable();

        if(request.RoleName != null)
        {
            var name = request.RoleName.ToLower();
            query = query.Where(r => r.NameRole.ToLower()
                .Contains(name) && r.IsDeleted == false);
        }

        if (request.Keyword != null)
        {
            var name = request.Keyword.ToLower();
            query = query.Where(r => r.NameRole.ToLower()
                .Contains(name) && r.IsDeleted == false);
        }

        if(request.IsDeleted.HasValue)
        {
            query = query.Where(r => r.IsDeleted == request.IsDeleted);
        }

        if(request.Id.HasValue)
        {
            query = query.Where(r => r.Id == request.Id && r.IsDeleted == false);
        }

        return query
            .Select(r => new RoleDTO {
                Id = r.Id,
                RoleName = r.NameRole,
                IsDelete = r.IsDeleted
            });
    }
}

```

UserCotroller

Useri mogu da se pretraze po Name, Surname, IsDeleted

```
public class UserSearch
{
    public string Name { get; set; }
    public string SurName { get; set; }
    public bool? IsDeleted { get; set; }

    public int PerPage { get; set; } = 4;
    public int PageNumber { get; set; } = 1;
}
```

Controller

```
public class UserController : ControllerBase
{
    private IAddUserCommand _addUserCommand;
    private IDeleteUserCommand _deleteUserCommand;
    private IGetUserCommand _getUserCommand;
    private IEditUserCommand _editUserCommand;
    private IGetUsersCommand _getUsersCommand;
    private IEmailSender _sender;

    public UserController(IAddUserCommand addUserCommand, IDeleteUserCommand
deleteUserCommand, IGetUserCommand getUserCommand, IEditUserCommand editUserCommand,
IGetUsersCommand getUsersCommand, IEmailSender sender)
    {
        _addUserCommand = addUserCommand;
        _deleteUserCommand = deleteUserCommand;
        _getUserCommand = getUserCommand;
        _editUserCommand = editUserCommand;
        _getUsersCommand = getUsersCommand;
        _sender = sender;
    }

    // GET: api/User
    [HttpGet]
    public ActionResult<IEnumerable<UserOnlySearchDTO>> Get([FromQuery] UserSearch
request)
    {
        try
        {
            var users = _getUsersCommand.Execute(request);
            return Ok(users);
        } catch (Exception)
```

```

        {
            return StatusCode(500, "Server error, try later");
        }
    }

    // GET: api/User/5
    [HttpGet("{id}")]
    public ActionResult<IEnumerable<UserOnlySearchDTO>> Get(int id)
    {
        try
        {
            var user = _getUserCommand.Execute(id);
            return Ok(user);
        } catch (NotFoundException)
        {
            return NotFound();
        }
        catch (Exception)
        {
            return StatusCode(500, "Server error, try later");
        }
    }

    // POST: api/User UserDTO request
    [HttpPost]
    public ActionResult Post([FromBody] UserDTO request)
    {
        try
        {
            _addUserCommand.Execute(request);
            _sender.Subject = "Uspesno ste se registrovali";
            _sender.ToEmail = request.Email;
            _sender.Body = "Dobro dosli na Api restorana Pulse sada imate mogucnost da
upisete Vas utisak ako ste nas posetili, ako niste sta cekate trk na rezervaciju vase
dorucka,rucka ili romanticke vecere. Vidimo se!";
            _sender.Send();

            return StatusCode(201, "User is sucefully create.");
        }
        catch (NotFoundException)
        {
            return StatusCode(404, "Role id Not Found");
        }
        catch (AlredyExistException)
        {
            return StatusCode(422, "Email alredy exist");
        }
        catch (Exception)
        {
            return StatusCode(500, "Server error, try later");
        }
    }

    // PUT: api/User/5
    [HttpPut("{id}")]
    public ActionResult Put(int id, [FromBody] UserSearchDTO value)
    {

```

```

        try
        {
            _editUserCommand.Execute(value);
            return NoContent();
        } catch (AlreadyExistException)
        {
            return StatusCode(422, "Email or Name or Surname or Rolle or Password
already exist");
        }
        catch (NotFoundException)
        {
            return NotFound();
        }
        catch (Exception)
        {
            return StatusCode(500, "Server error, try later");
        }
    }

    // DELETE: api/ApiWithActions/5
    [HttpDelete("{id}")]
    public ActionResult Delete(int id)
    {
        try
        {
            _deleteUserCommand.Execute(id);
            return StatusCode(204, "User is deleted");
        } catch (AlreadyExistException)
        {
            return Conflict("User is already deleted");
        } catch (NotFoundException)
        {
            return NotFound();
        } catch (Exception)
        {
            return StatusCode(500, "Server error, try later");
        }
    }
}
}
}

```

UserAuthDTO

```

public class UserAuthDTO
{
    [Required(ErrorMessage = "Email is required!")]
    [EmailAddress(ErrorMessage = "Email nije u dobrom formatu")]
    public string Email { get; set; }
    [MinLength(6, ErrorMessage = "Too less charachters for password, 6 is min!")]
    [Required(ErrorMessage = "Password is required!")]
    public string Password { get; set; }
}

```

UserDTO

```
public class UserDTO
{
    public int Id { get; set; }
    [MaxLength(30, ErrorMessage = "Too many charachters for name, 30 is max!")]
    [MinLength(3, ErrorMessage = "Too less charachters for name, 3 is min!")]
    [Required(ErrorMessage = "Name is required!")]
    public string Name { get; set; }
    [MaxLength(30, ErrorMessage = "Too many charachters for Surname, 30 is max!")]
    [MinLength(3, ErrorMessage = "Too less charachters for Surname, 3 is min!")]
    [Required(ErrorMessage = "Surname is required!")]
    public string Surname { get; set; }
    [Required(ErrorMessage = "Email is required!")]
    [EmailAddress(ErrorMessage = "Email nije u dobrom formatu")]
    public string Email { get; set; }

    [MinLength(6, ErrorMessage = "Too less charachters for password, 6 is min!")]
    [Required(ErrorMessage = "Password is required!")]
    public string Password { get; set; }

    public int RoleId { get; set; }

    public bool IsDelete { get; set; }
}
}
```

UserOnlySearchDTO

```
public class UserOnlySearchDTO
{
    public int Id { get; set; }
    [MaxLength(30, ErrorMessage = "Too many charachters for name, 30 is max!")]
    [MinLength(3, ErrorMessage = "Too less charachters for name, 3 is min!")]
    public string Name { get; set; }
    [MaxLength(30, ErrorMessage = "Too many charachters for Surname, 30 is max!")]
    [MinLength(3, ErrorMessage = "Too less charachters for Surname, 3 is min!")]
    public string Surname { get; set; }
    public string Email { get; set; }

    public string RoleName { get; set; }
    public bool IsDelete { get; set; }
}
```

EFCommands

EFAddUser

```
public class EFAddUserCommand : EFBBaseCommand, IAddUserCommand
{
    public EFAddUserCommand(DBContext context) : base(context)
    {
    }

    public void Execute(UserDTO request)
    {
        if(_context.Users.Any(u => u.Email == request.Email))
        {
            throw new AlredyExistException();
        }

        if (_context.Roles.Any(r => r.Id == request.RoleId))
        {
        }
        else
        {
            throw new NotFoundException();
        }

        _context.Users.Add(new User {
            Name = request.Name,
            Surname = request.Surname,
            Email = request.Email,
            Password = request.Password,
            RoleId = request.RoleId
        });

        _context.SaveChanges();
    }
}
```

EFAuthUserCommand

```
public class EFAuthUserCommand : EFBBaseCommand, IAuthUserCommand
{
    public EFAuthUserCommand(DBContext context) : base(context)
    {
    }

    public LoggedUser Execute(UserAuthDTO request)
    {
        var user = _context.Users
            .Include(u => u.Role)
            .Where(u => u.Email == request.Email)
            .Where(u => u.Password == request.Password)
            .FirstOrDefault();
    }
}
```



```

        if(user == null)
        {
            throw new NotFoundException();
        }
        return new LoggedUser
        {
            Id = user.Id,
            Name = user.Name,
            Surname = user.Surname,
            Email = user.Email,
            RoleName = user.Role.NameRole
        };
    }
}

```

EFDeleteUser

```

public class EFDeleteUserCommand : EFBaseCommand, IDeleteUserCommand
{
    public EFDeleteUserCommand(DBContext context) : base(context)
    {
    }

    public void Execute(int id)
    {
        var user = _context.Users.Find(id);

        if(user == null)
        {
            throw new NotFoundException();
        }

        if(user.IsDeleted == true)
        {
            throw new AlredyExistException();
        }

        user.IsDeleted = true;
        _context.SaveChanges();
    }
}

```

EFEditUser

```

public class EFEditUserCommand : EFBaseCommand, IEditUserCommand
{
    public EFEditUserCommand(DBContext context) : base(context)
    {
    }
}

```

```

public void Execute(UserSearchDTO request)
{
    var user = _context.Users.Find(request.Id);

    if(user == null)
    {
        throw new NotFoundException();
    }

    if(request.Email != null)
    {
        if(!_context.Users.Any(u => u.Email == request.Email))
        {
            user.Email = request.Email;
        }
        else
        {
            throw new AlredyExistException();
        }
    }

    if (request.Name != null)
    {
        if (user.Name != request.Name)
        {
            user.Name = request.Name;
        }
        else
        {
            throw new AlredyExistException();
        }
    }

    if(request.Surname != null)
    {
        if(user.Surname != request.Surname)
        {
            user.Surname = request.Surname;
        }else
        {
            throw new AlredyExistException();
        }
    }

    if (request.Password != null)
    {
        if (user.Password != request.Password)
        {
            user.Password = request.Password;
        }
        else
        {
            throw new AlredyExistException();
        }
    }
}

```

```

    }

    if(request.RoleId != 0)
    {
        if(user.RoleId != request.RoleId)
        {
            if (_context.Roles.Any(r => r.Id == request.Id))
            {
                user.RoleId = request.RoleId;
            }else
            {
                throw new NotFoundException();
            }
        }else
        {
            throw new AlredyExistException();
        }
    }

    if(user.IsDeleted != request.IsDelete)
    {
        user.IsDeleted = request.IsDelete;
    }

    _context.SaveChanges();

}
}
}

```

EFGetUser

```

public class EFGetUserCommand : EFBaseCommand, IGetUserCommand
{
    public EFGetUserCommand(DBContext context) : base(context)
    {
    }

    public IEnumerable<UserOnlySearchDTO> Execute(int id)
    {
        var query = _context.Users.AsQueryable();

        if (_context.Users.Any(u => u.Id == id))
        {
            query = query.Where(u => u.Id == id);
        }
        else
        {

```

```

        throw new NotFoundException();
    }

    return query
        .Include(r => r.Role)
        .Select(u => new UserOnlySearchDTO
        {
            Id = u.Id,
            Name = u.Name,
            Surname = u.Surname,
            Email = u.Email,
            RoleName = u.Role.NameRole,
            IsDelete = u.IsDeleted
        });
    }
}
}

```

EFGetUsersCommand

```

public class EFGetUsersCommand : EFBaseCommand, IGetUsersCommand
{
    public EFGetUsersCommand(DBContext context) : base(context)
    {
    }

    public PagedResponse<UserOnlySearchDTO> Execute(UserSearch request)
    {
        var query = _context.Users.AsQueryable();

        if (request.Name != null)
        {
            var name = request.Name.ToLower();
            query = query.Where(u => u.Name.ToLower()
                .Contains(name)
                && u.IsDeleted == false);
        }

        if (request.SurName != null)
        {
            var name = request.SurName.ToLower();
            query = query.Where(u => u.Surname.ToLower()
                .Contains(name)
                && u.IsDeleted == false);
        }

        var totalCount = query.Count();

        query = query.Skip((request.PageNumber - 1) * request.PerPage)
            .Take(request.PerPage);

        var pageCount = (int)Math.Ceiling((double)totalCount / request.PerPage);
    }
}

```

```

var response = new PagedResponse<UserOnlySearchDTO>
{
    CurrentPage = request.PageNumber,
    TotalCount = totalCount,
    PageCount = pageCount,
    Data = query.Include(r => r.Role)
        .Select(u => new UserOnlySearchDTO
        {
            Id = u.Id,
            Name = u.Name,
            Surname = u.Surname,
            Email = u.Email,
            RoleName = u.Role.NameRole,
            IsDelete = u.IsDeleted
        })
};
return response;
}

```

WEB APP

ImpressionController

Pretraga je moguca samo preko Content-a

```

public class ImpressionController : Controller
{
    private IAddImpresssionCommand _addImpressionCommand;
    private IDeleteImpressionCommand _deleteImpressionCommand;
    private IGetImpressionCommand _getImpressionCommand;
    private IEditImpressionCommand _editImpressionCommand;
    private IGetImpressionsCommand _getImpressionsCommand;
    private IGetAllImpressionWebCommand _getAllImpressionCommand;
    private IGetImpressionWebCommand _getImpressionWebCommand;

    public ImpressionController(IAddImpresssionCommand addImpressionCommand,
        IDeleteImpressionCommand deleteImpressionCommand, IGetImpressionCommand
        getImpressionCommand, IEditImpressionCommand editImpressionCommand, IGetImpressionsCommand
        getImpressionsCommand, IGetAllImpressionWebCommand getAllImpressionCommand,
        IGetImpressionWebCommand getImpressionWebCommand)
    {
        _addImpressionCommand = addImpressionCommand;
        _deleteImpressionCommand = deleteImpressionCommand;
        _getImpressionCommand = getImpressionCommand;
        _editImpressionCommand = editImpressionCommand;
        _getImpressionsCommand = getImpressionsCommand;
        _getAllImpressionCommand = getAllImpressionCommand;
        _getImpressionWebCommand = getImpressionWebCommand;
    }
}

```

```

// GET: Impression prikaz svih
public ActionResult Index(ImpressionSearchWeb request)
{
    var lista = _getAllImpressionCommand.Execute(request);
    return View(lista);
}

// GET: Impression/Details/5
public ActionResult Details(int id)
{
    try
    {
        var dto = _getImpressionCommand.Execute(id);
        return View(dto);
    }
    catch (NotFoundException)
    {
        TempData["error"] = "Ne postoji utisak sa id koji ste uneli";
    }

    return RedirectToAction(nameof(Index));
}

// GET: Impression/Create prikaz forme
public ActionResult Create()
{
    return View();
}

// POST: Impression/Create unos jednog
[HttpPost]
[ValidateAntiForgeryToken]
public ActionResult Create(ImpressionDTO request)
{
    if(!ModelState.IsValid)
    {
        return View(request);
    }
    try
    {
        _addImpressionCommand.Execute(request);

        return RedirectToAction(nameof(Index));
    }
    catch(NotFoundException)
    {
        TempData["error"] = "Uneli ste id usera koji ne postoji";
    }
    catch(Exception)
    {
        TempData["error"] = "Serverska greska";
    }
    return View();
}

// GET: Impression/Edit/5 prikaz forme

```

```

public ActionResult Edit(int id)
{
    var obj = _getImpressionWebCommand.Execute(id);
    return View(obj);
}

// POST: Impression/Edit/5
[HttpPost]
[ValidateAntiForgeryToken]
public ActionResult Edit(ImpressionEditDTO request)
{
    if (!ModelState.IsValid)
    {
        return View(request);
    }
    try
    {
        _editImpressionCommand.Execute(request);

        return RedirectToAction(nameof(Index));
    }
    catch
    {
        return View();
    }
}

// GET: Category/Delete/5
public ActionResult Delete(int id)
{
    try
    {
        _deleteImpressionCommand.Execute(id);
        return RedirectToAction(nameof(Index));
    }
    catch (NotFoundException)
    {
        return NotFound();
    }
    catch (Exception)
    {
        return BadRequest("Something went wrong");
    }
}

```

GetAll

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Index

[Create New](#)

Id	Content	UserId	NameSurname	
2	Ovo je nemanja napisao	2	Veca Ranisavljevic	Edit Details Delete
4	Radi njam njam	2	Veca Ranisavljevic	Edit Details Delete

Details

Details

ImpressionDTO

Id	2
Content	Ovo je nemanja napisao
UserId	2
NameSurname	Veca Ranisavljevic

[Edit](#) | [Back to List](#)

Create

Content

UserId

Create

Edit

Content

Ovo je nemanja napisao

Save

Meni Web

Pri dodavanju I izmeni obavezno je sliku uneti kao podatak. Ime hrane ne moze da bude isto pri dodavanju ili izmeni. Pretraga je moguca samo preko imena hrane

```
public class MeniSearchWeb
{
    public string NameFood { get; set; }
}
```

Controller

```
public class MeniController : Controller
{
    private IAddMeniCommand _addMeniCommand;
    private IGetMeniCommand _getMeniCommand;
    private IGetMeniesCommand _getMeniesCommand;
    private IEditMeniCommand _editMeniCommand;
    private IDeleteMeniCommand _deleteMeniCommand;
    private IGetAllMeniesCommandWeb _getAllMeniesCommandWeb;
    private IGetMeniWebCommand _getOneMeniCommand;
    private IGetEditMeniCommand _getEditMeniCommand;
    private IGetWebMealsCommand _getWebMeals;

    public MeniController(IAddMeniCommand addMeniCommand, IGetMeniCommand
getMeniCommand, IGetMeniesCommand getMeniesCommand, IEditMeniCommand editMeniCommand,
IDeleteMeniCommand deleteMeniCommand, IGetAllMeniesCommandWeb getAllMeniesCommandWeb,
IGetMeniWebCommand getOneMeniCommand, IGetEditMeniCommand getEditMeniCommand,
IGetWebMealsCommand getWebMeals)
    {
```

```

        _addMeniCommand = addMeniCommand;
        _getMeniCommand = getMeniCommand;
        _getMeniesCommand = getMeniesCommand;
        _editMeniCommand = editMeniCommand;
        _deleteMeniCommand = deleteMeniCommand;
        _getAllMeniesCommandWeb = getAllMeniesCommandWeb;
        _getOneMeniCommand = getOneMeniCommand;
        _getEditMeniCommand = getEditMeniCommand;
        _getWebMeals = getWebMeals;
    }

```

```

// GET: Meni
public ActionResult Index(MeniSearchWeb request)
{
    var obj = _getAllMeniesCommandWeb.Execute(request);
    return View(obj);
}

```

```

// GET: Meni/Details/5
public ActionResult Details(int id)
{
    try
    {
        var obj = _getOneMeniCommand.Execute(id);
        return View(obj);
    } catch (NotFoundException)
    {
        return NotFound();
    }
}

```

```

// GET: Meni/Create
public ActionResult Create()
{
    return View();
}

```

```

// POST: Meni/Create
[HttpPost]
[ValidateAntiForgeryToken]
public ActionResult Create([FromForm] HttpSlikaDTO p)
{
    var ext = Path.GetExtension(p.Image.FileName); //daje ekstenziju .jpg

    if (!FileUpload.AllowExtensions.Contains(ext))
    {
        return UnprocessableEntity("Image extension is not allowed.");
    }

    try
    {

```

```

        var newFileName = Guid.NewGuid().ToString() + "_" +
p.Image.FileName; //unique za ime fajla

        var filePath = Path.Combine(Directory.GetCurrentDirectory(), "wwwroot",
"uploads", newFileName);

        p.Image.CopyTo(new FileStream(filePath, FileMode.Create));

        var dto = new MeniAddDTO
        {
            NameFood = p.NameFood,
            Ingradiant = p.Ingradiant,
            FileName = newFileName,
            Price = p.Price,
            MealId = p.MealId
        };

        _addMeniCommand.Execute(dto);
        return RedirectToAction(nameof(Index));
    }
    catch (NotFoundException)
    {
        TempData["error"] = "Meal of food not found";
    }
    catch (AlredyExistException)
    {
        TempData["error"] = "Name of food alredy exist";
    }
    catch (Exception)
    {
        return StatusCode(500, "Server error try later");
    }
    return RedirectToAction(nameof(Index));
}

// GET: Meni/Edit/5
public ActionResult Edit(int id, ClassForNullObj request)
{
    var obj = _getEditMeniCommand.Execute(id);

    return View(obj);
}

// POST: Meni/Edit/5
[HttpPost]
[ValidateAntiForgeryToken]
public ActionResult Edit(int id, [FromForm] HttpEditMeni p)
{
    var ext = Path.GetExtension(p.Image.FileName); //daje ekstenziju .jpg

    if (!FileUpload.AllowExtensions.Contains(ext))
    {
        return UnprocessableEntity("Image extension is not allowed.");
    }
}

```

```

    }

    try
    {
        var newFileName = Guid.NewGuid().ToString() + "_" +
p.Image.FileName;//unique za ime fajla

        var filePath = Path.Combine(Directory.GetCurrentDirectory(), "wwwroot",
"uploads", newFileName);

        p.Image.CopyTo(new FileStream(filePath, FileMode.Create));

        var dto = new MeniAddDTO
        {
            Id = p.Id,
            NameFood = p.NameFood,
            Ingradiant = p.Ingradiant,
            FileName = newFileName,
            Price = p.Price,
            MealId = p.MealId
        };

        _editMeniCommand.Execute(dto);
        return RedirectToAction(nameof(Index));
    }
    catch (NotFoundException)
    {
        return StatusCode(404, "Meal id not found or id of meni");
    }
    catch (AlredyExistException)
    {
        return StatusCode(422, "Name of food alredy exist");
    }
    catch (Exception)
    {
        return StatusCode(500, "Server error try later");
    }
}


// GET: Meni/Delete/5
public ActionResult Delete(int id)
{
    try
    {
        _deleteMeniCommand.Execute(id);
        return RedirectToAction(nameof(Index));
    } catch
    {
        TempData["error"] = "Ne postoji objekat koji trazite";
        return RedirectToAction(nameof(Index));
    }
}

}
}

```

Index

[Create New](#)

Id	NameFood	Ingradient	Price	FileName	MealName	Alt	
4	NjamaNjam	jaja, sir, paprika	50		Rucak	NjamaNjam	Edit Details Delete

Edit

Edit

HttpEditMeni

NameFood

NjamaNjam

Ingradiant

jaja, sir, paprika

Price

50

Image

Преглед...

Није одабрана датотека.

MealId

2

Save

[Back to List](#)

Details

Details

MeniGetDTO

Id	4
NameFood	NjamaNjam
Ingradiant	jaja, sir, paprika
Price	50
FileName	
MealName	Rucak
Alt	NjamaNjam

[Edit](#) | [Back to List](#)