

# Delivery Manual Weelo (Million and Up)

## Juan David Vasquez Vélez

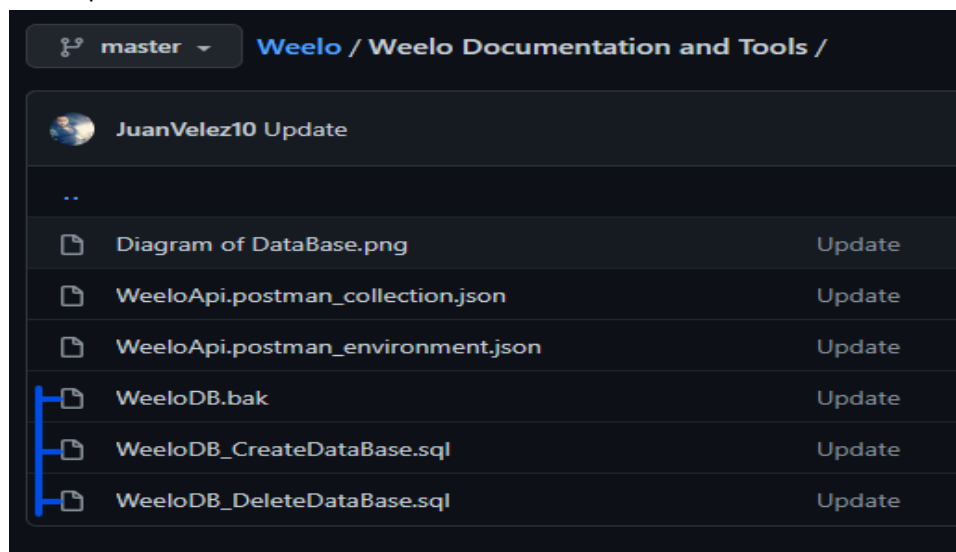
### Initial setup

#### Database:

All the project and documentation and tools such as database backup and postman are in the following github repository for download:

<https://github.com/JuanVelez10/Weelo>

In the folder [Weelo Documentation and Tools](#) we will find a backup of the database, and two initial creation SQL script files.



When we create the database, the next step is to open the project from visual studio and make the connection to this database with the following command:

```
Scaffold-DbContext "Server=VALEMAS-327\SQLEXPRESS; Database=WeeloDB; Trusted_Connection=True;" Microsoft.EntityFrameworkCore.SqlServer -OutputDir DataBase -force
```

Remember to change the server name to that of your machine.

```
Consola del Administrador de paquetes
Origen del paquete: Todos Proyecto predeterminado: WeeloInfrastructure
La licencia de cada paquete la concede su propietario. NuGet no se hace responsable de los paquetes de terceros ni concede ninguna licencia sobre ellos. Algunos paquetes
licencias adicionales. Siga la URL de origen del paquete (fuente) para determinar cualquier dependencia.
Versión de host 6.0.1.1 de la Consola del Administrador de paquetes
Escriba 'get-help NuGet' para ver todos los comandos de NuGet disponibles.
PM> Scaffold-DbContext "Server=VALEMAS-327\SQLEXPRESS; Database=WeeloDB; Trusted_Connection=True;" Microsoft.EntityFrameworkCore.SqlServer -OutputDir DataBase -force
Build started...
Build succeeded.
To protect potentially sensitive information in your connection string, you should move it out of source code. You can avoid scaffolding the connection string by using th
https://go.microsoft.com/fwlink/?linkid=2131148. For more guidance on storing connection strings, see http://go.microsoft.com/fwlink/?LinkId=723263.
PM>
```

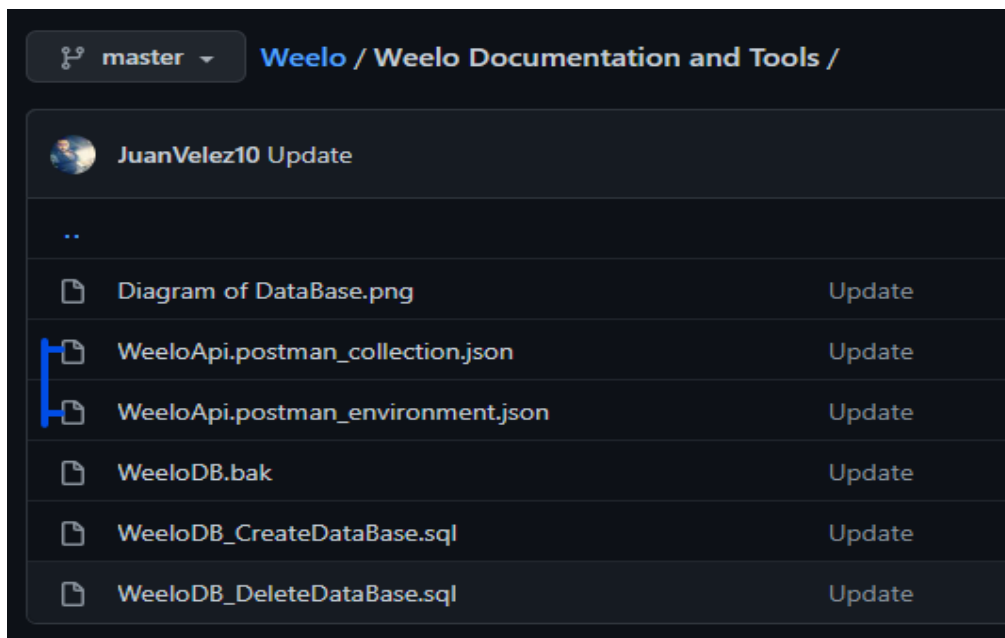
So, you might as well change the server manually from the following class:

```
WeeloDBContext.cs
WeeloInfrastructure
WeeloInfrastructure.DataBase.WeeloDBContext
Weelo

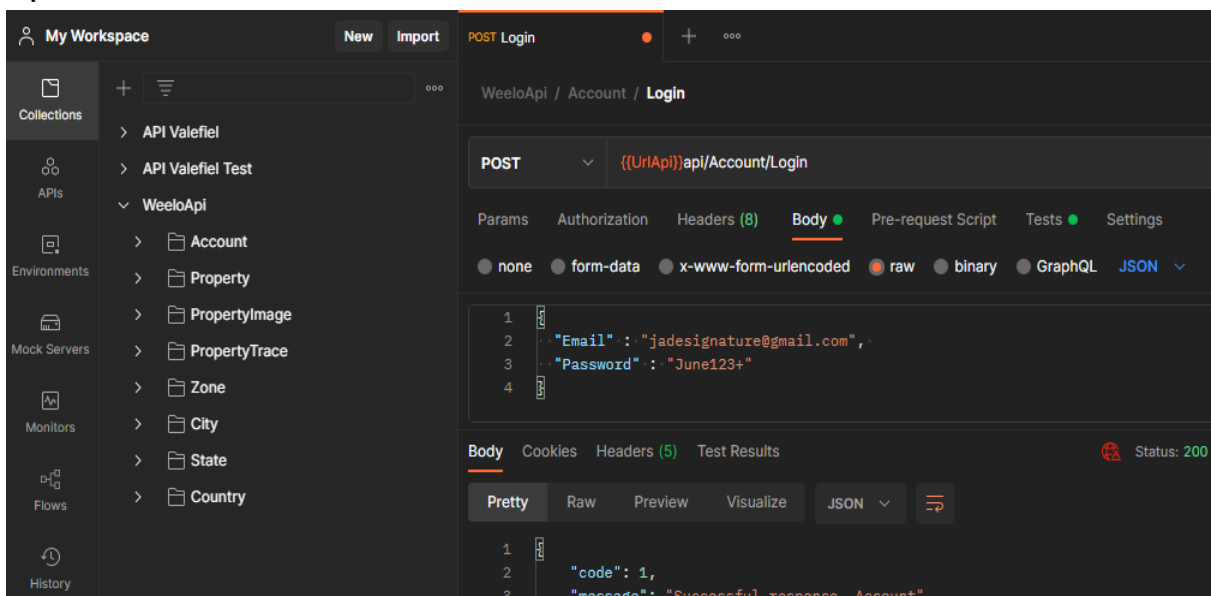
26 public virtual DbSet<PropertyTrace> PropertyTraces { get; set; }
27 public virtual DbSet<State> States { get; set; }
28 public virtual DbSet<Zone> Zones { get; set; }
29
30 protected override void OnConfiguring(DbContextOptionsBuilder optionsBuilder)
31 {
32     if (!optionsBuilder.IsConfigured)
33     {
34         #warning To protect potentially sensitive information in your connection string, you should move it out of source code. You
35         optionsBuilder.UseSqlServer("Server=VALEMAS-327\\SQLEXPRESS; Database=WeeloDB; Trusted_Connection=True;");
36     }
37 }
```

## Postman:

For the configuration of the environment and collection of services in postman we find the files to import in the folder [Weelo Documentation and Tools](#).



## Import Collection



Import environment

WeeloEnvironment			Edit
VARIABLE	INITIAL VALUE	CURRENT VALUE	
UriApi	https://localhost:44325/	https://localhost:44325/	
Globals			Edit
VARIABLE	INITIAL VALUE	CURRENT VALUE	
TOKEN		eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJodHRwOi8vc2NoZW1hcy54bWxzb2FwLm9yZy93cy8yMDA1LzA1L2lkZW50aXR5L2NsYWltcy9uYW1laWRlbnRpZmllcml6IjVh...	

Note. The most important services are documented in postman

POST Login

GET GetAll

GET Get

WeeloEnvironment

WeeloApi / Account / Login

POST

{{UriApi}}api/Account/Login

Send

Params

Auth

Headers (8)

Body

Pre-req

Tests

Settings

raw

JSON

Beautify

1 {

2 .."Email" : "jadesignature@gmail.com",

3 .."Password" : "June123+"

4 }

Body

200 OK

25 ms

1.43 KB

Save Response

Pretty

Raw

Preview

Visualize

JSON

1 {

2 "code": 1,

3 "message": "Successful response. Account",

4 "messageType": 1,

5 "data": {

6 "id": "5af4d332-b098-4f1e-b4e6-b7def89423f5",

7 "name": "Jade Signature",

8 "address": "16901 Collins Ave, Sunny Isles Beach, FL 33160, EE. UU.",

9 "phone": "7864229847",

10 "email": "jadesignature@gmail.com",

11 "password": "June123+",

12 "photoUrl": "https://firebasestorage.googleapis.com/v0/b/weelo-9c10a.appspot.com/o/

Documentation

https://localhost:44325/api/Account/Login

Service to login and get a token

Request	
Email	Email from an existing account
Password	Password from an existing account

Response	
Code	Message code
Message	Message Text
MessageType	Message Type
Data	Result
Data/Token	Login token

Body raw (json)

View complete collection documentation →

Note. Keep in mind that you must be logged in first to be able to use the other services, so you must first use the Login service to be able to generate an authentication token and then use it in the other services.

POST Login

Globals

WeeloApi / Account / Login

POST {{UriApi}}api/Account/Login

Params Authorization Headers (8) Body Pre-request Script Tests Settings

```
1 var jsonData = JSON.parse(responseBody);
2 if (jsonData.data.token) {
3     pm.globals.set("TOKEN", jsonData.data.token);
4 }
```

Body Cookies Headers (5) Test Results Status: 200 OK

Pretty Raw Preview Visualize JSON

```
12 "photo": "https://firebasestorage.googleapis.com/v0/b/weelo-7010a.appspot.com/o/Account%2F541ce34b-8be1-4fcb-bb28-ef0502909f45.jpeg?alt=media&token=
13 "birthday": "2014-12-28T20:44:11",
14 "accountType": 2,
15 "roleType": 1,
16 "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJodHRwOiI8vc2NoZW1hcy54bWxzbn2FwLm9yZy93cy8yMDA1LzA1L2lkZW50aXR5L2NsMyLWIwOTgtNGYxZS1iNGU2LWI3ZGVmODk0MjNmNSIsImh0dHA6Ly9zY2h1bWZzLnhtbHhY2xhaW1zL25hbWUiOiJlYWR1cmVzcyI6ImphZGVzaWduYXR1cmVhZ21haWwY29tIiwiaHR0cDMDA4LzA2L2lkZW50aXR5L2NsYWI6ImphZGVzaWduYXR1cmVhZ21haWwY29tIiwiaHR0cDQ0MzI1LyIsImF1ZCI6Imh0dHBz018vbG9jYXRob3N00jQ0MzI1LyJ9._3jgtAN_eWghQ
17 "create": "2022-03-03T14:56:24.843",
18 "update": "2022-03-03T14:56:24.843"
19 }
```

POST Login GET GetAll

WeeloApi / Property / GetAll

GET {{UriApi}}api/Property

Params Authorization Headers (7) Body Pre-request Script Tests Settings

Type Bearer Token {{TOKEN}}

The authorization header will be automatically generated when you send the request

Body Cookies Headers (5) Test Results Status: 200 OK Time: 123 ms

Pretty Raw Preview Visualize JSON

```
1 {}
2 {
3     "id": "b02b4815-f0d5-480b-ac41-1883c1cdbebe",
4     "name": "Apartment, Blue Diamond Residence in COLLINS AVE",
5     "description": "Spectacular unobstructed ocean and city views from every room in th
```

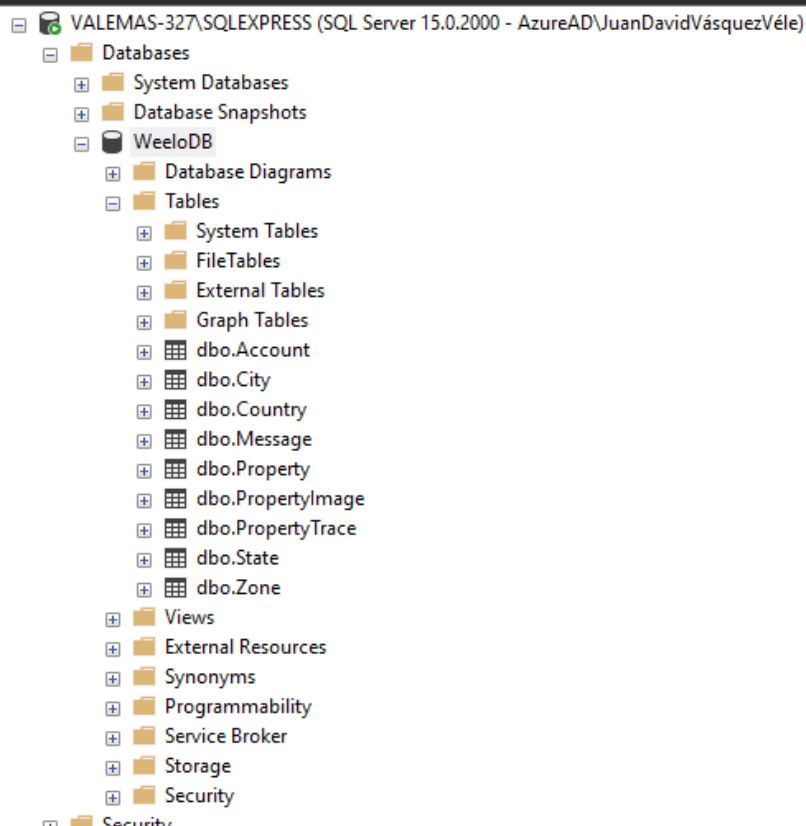
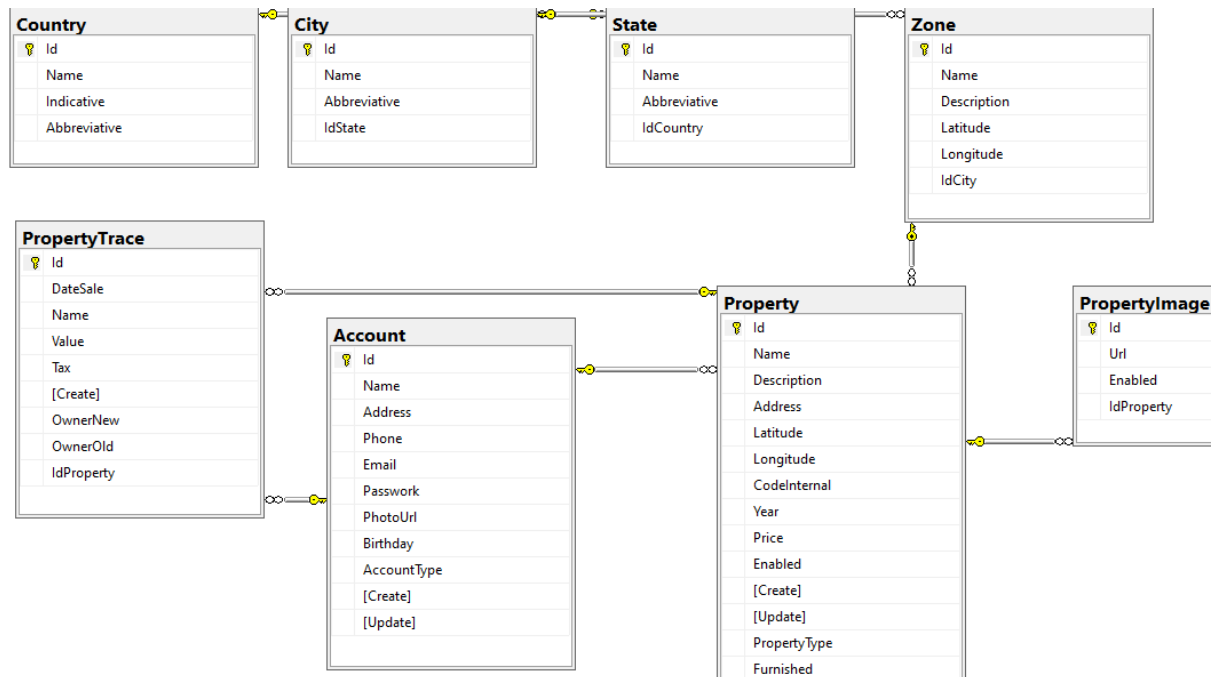
## Points to evaluate

### Required manage:

All the tools required for the development of this API are used (.NET 5,SQL Server,C#,nUnit)

### SQL Server

Diagram of DataBase: [Diagram of DataBase.png](#)



## .NET 5 and C#

### Marco de destino

Especifica la versión de .NET a la que se destina la aplicación. Esta opción puede tener distintos valores en función de las versiones de .NET instaladas en el equipo.

.NET 5.0

[Instalar otras plataformas](#)

### Sistema operativo de destino

Especifica el sistema operativo al que se destina este proyecto.

(None)

### Objeto de inicio

Define el punto de entrada al que se va a llamar cuando se cargue la aplicación. Normalmente, se establece en el formulario principal de la aplicación o en el procedimiento "Principal" que debe ejecutarse cuando se inicia la aplicación. Las bibliotecas de clases no definen ningún punto de entrada.

(No establecido)

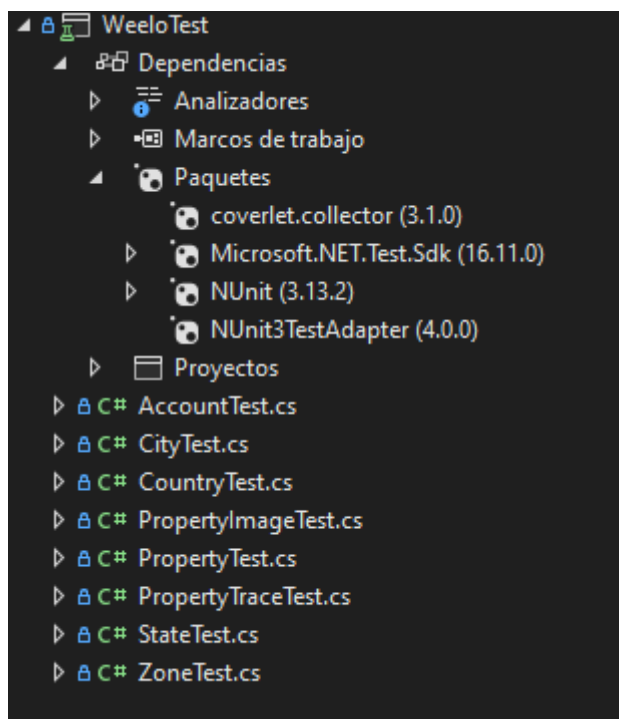
### Nombre del ensamblado

Especifica el nombre del archivo de salida que incluirá el manifiesto del ensamblado.

\$(MSBuildProjectName)

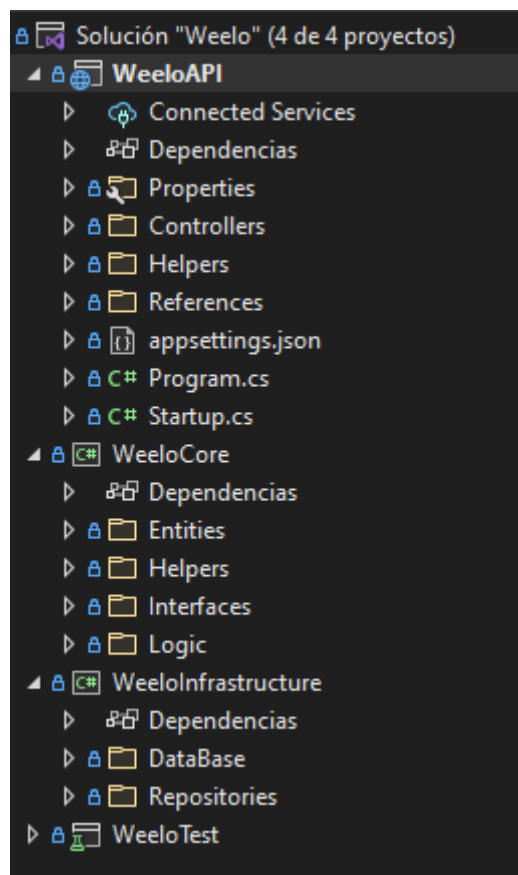
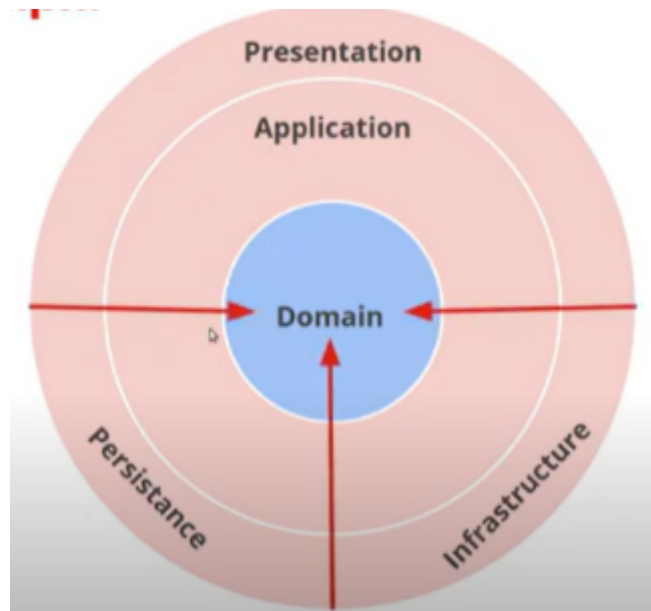
WeeloAPI

## nUnit



## Architecture:

**Clean architecture management:** where we have a **WeeloApi** solution where all the services are and this in turn communicates with a domain layer called **WeeloCore** where all the business logic is processed and the latter communicates with an infrastructure layer called **WeeloInfrastructure** where the latter has the connection to the database and persistence.



### Structure:

The entire structure is object-oriented and its 4 main pillars, it was also based on the SOLID principles where the fundamental factor is to simplify everything with more classes, methods with only functions we have much better, they were implemented design patterns at the structural level as well.

## 4 principles of object-oriented programming

### Encapsulación: get and set

```
public Property()
{
    PropertyImages = new HashSet<Property>
    PropertyTraces = new HashSet<Property>
}

public Guid Id { get; set; }

public string Name { get; set; }
3 referencias
public string Description { get; set; }
3 referencias
public string Address { get; set; }
2 referencias
public double Latitude { get; set; }
2 referencias
public double Longitude { get; set; }
```

### Abstraction: repository database connection

### Inheritance : from the abstract class Generic Repository<Property>

```
//This class is a repository that connects us to the database
6 referencias
public class PropertyRepository : GenericRepository<Property>
{
    //Delete property from database
    2 referencias
    public override Property Delete(Guid? id) [...]

    //Get property from database
    8 referencias
    public override Property Get(Guid? id)
    {
        return weeloDBContext.Properties.Where(x=> x.Id == id).FirstOrDefault();
    }

    //Get all properties from database
    2 referencias
    public override List<Property> GetAll() [...]

    //Add property from database
    2 referencias
    public override Property Insert(Property @object) [...]
```



Polimorfismo: use same functionality but with different objects

```

    ▲ WeeloAPI\Controllers\PropertyController.cs (1)
    86 : var response = propertyLogic.Insert(mapper.Map<PropertyEntity>(propertyRequest));
    ▲ WeeloCore\Interfaces\ILogic.cs (1)
    16 : public abstract BaseResponse<TDomainObject> Insert(TDomainObject @object);
    Contrar todo

//Method to add a new property
2 referencias
public BaseResponse<PropertyEntity> Insert(PropertyEntity propertyInfoEntity)
{
    BaseResponse<PropertyEntity> response = new BaseResponse<PropertyEntity>();

    response = Validate(propertyInfoEntity, true);
    if (response.Code > 0) return response;

    var property = propertyRepository.Insert(mapper.Map<Property>(propertyInfoEntity));

    if (property == null) return MessageResponse(6, MessageType.Error);

    response = MessageResponse(1, MessageType.Success, "Property");
    response.Data = mapper.Map<PropertyEntity>(property);

    return response;
}

```

```

public AccountEntity Get(Guid? id)
{
}

    ▲ WeeloCore\Interfaces\ILogic.cs (1)
    16 : public abstract BaseResponse<TDomainObject> Insert(TDomainObject @object);
    Contrar todo

//Method to add a account
1 referencia
public BaseResponse<AccountEntity> Insert(AccountEntity @object)
{
}

//Method to update a account

```

## The SOLID principles

### S – Single Responsibility Principle (SRP)

In this method we see how we call a class to obtain the verification of an account and another helpers class to generate the authentication token, thus guaranteeing sole responsibility.

```

// POST api/<AccountController>
//In this method an account is validated for login and a jwt token is generated
[HttpPost]
[Route("Login")]
[AllowAnonymous]
3 referencias | 3/3 pasando
public IActionResult Login([FromBody] LoginRequest loginRequest)
{
    var response = accountLogic.GetAccountLogin(mapper.Map<LoginEntity>(loginRequest));
    if(response != null && response.Data != null)
    {
        response.Data.Token = toolsConfig.Generate(config, response.Data);
        return Ok(response);
    }

    return BadRequest(response);
}

```

## O – Open/Closed Principle (OCP)

We have an interface class to ensure that the code is not easily changed.

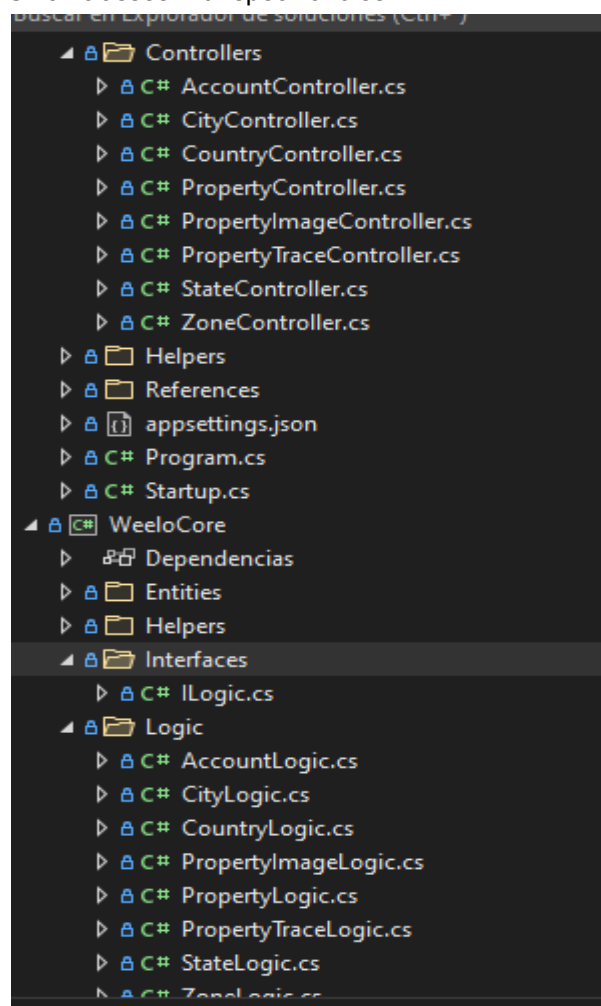
```
namespace WeeloCore.Logic
{
    //This interface class to inherit methods from basic to logic classes.
    8 referencias
    public interface ILogic<TDomainObject>
    {
        15 referencias
        public abstract List<TDomainObject> GetAll();
        27 referencias
        public abstract TDomainObject Get(Guid? id);
        10 referencias
        public abstract BaseResponse<TDomainObject> Insert(TDomainObject @object);
        9 referencias
        public abstract BaseResponse<TDomainObject> Delete(Guid? id);
        9 referencias
        public abstract BaseResponse<TDomainObject> Update(TDomainObject @object);
        62 referencias
        public abstract BaseResponse<TDomainObject> MessageResponse(int code, MessageType me
    }
}
```

## L – Liskov Substitution Principle (LSP)

It has not been implemented, but it can be improved by implementing separate interfaces for each logic functionality, so that all the methods of this interface do not have to be inherited.

## I – Interface Segregation Principle (ISP)

Small classes with specific roles



## D – Dependency Inversion Principle (DIP)

At any time I can change the connection method to the database but the logic code should not be changed

```
//Method to get all system properties
3 referencias
public List<PropertyEntity> GetAll()
{
    var propertyEntities = new List<PropertyEntity>();

    var properties = propertyRepository.GetAll();
    if (properties.Any())
    {
        propertyEntities = properties.Select(x => mapper.Map<PropertyEntity>(x)).ToList();
        if (propertyEntities.Any()) propertyEntities.ForEach(x => Arrive(x));
    }

    return propertyEntities;
}
```

## Design patterns

### Factory

One method brings me a list of properties with certain filters and the other brings me all the properties of a city and finally another method that brings me all the properties.

```
//Method to search for properties by city, area, price, year, room number among other filters
1 referencia
public List<PropertyBasicEntity> Find(FindPropertyEntity find,int itemsForPage)
{
    var properties = new List<PropertyBasicEntity>();

    if (find.IdCity.HasValue)
    {
        properties = GetAllForCity(find.IdCity);
        properties = Arrive(properties);
        properties = Filter(properties, find);
    }

    return properties.Skip(itemsForPage * find.Page).Take(itemsForPage).ToList();
}
```

```
//Search properties by a city
1 referencia
public List<PropertyBasicEntity> GetAllForCity(Guid? idCity)
{
    var propertyEntities = new List<PropertyBasicEntity>();

    if (idCity.HasValue)
    {
        var zones = zoneLogic.GetAllForCity(idCity);
        if (zones.Any())
        {
            var idZones = zones.Select(x => x.Id).ToList();
            var properties = propertyRepository.GetAllForZones(idZones);
            if (properties.Any()) propertyEntities = properties.Select(x => mapper.Map<PropertyBasicEntity>(x)).ToList();
        }
    }

    return propertyEntities;
}
```

```

//Method to get all system properties
3 referencias
public List<PropertyEntity> GetAll()
{
    var propertyEntities = new List<PropertyEntity>();

    var properties = propertyRepository.GetAll();
    if (properties.Any())
    {
        propertyEntities = properties.Select(x => mapper.Map<PropertyEntity>(x)).ToList();
        if (propertyEntities.Any()) propertyEntities.ForEach(x => Arrive(x));
    }

    return propertyEntities;
}

```

## Singleton

IMapper and IConfiguration cannot be instantiated several times, only once, since information is only obtained from it and they are created when a controller is called.

```

private readonly IMapper mapper;
private readonly IConfiguration config;
private AccountLogic accountLogic;
private ToolsConfig toolsConfig;

//Controller
1 referencia
public AccountController(IMapper mapper, IConfiguration iConfig)
{
    this.mapper = mapper;
    accountLogic = new AccountLogic(mapper);
    config = iConfig;
    toolsConfig = new ToolsConfig();
}

```

## Dependency injection

when two objects enter the method and there is no need to instantiate them in the class itself.

```

//Method to create new image of property
1 referencia
public BaseResponse<PropertyImageEntity> New(IConfiguration config,HttpRequest request)
{
    BaseResponse<PropertyImageEntity> response = new BaseResponse<PropertyImageEntity>();

    response = ValidateRequest(request);
    if (response.Code > 0) return response;

    var idProperty = request.Form.Where(x => x.Key == "id").FirstOrDefault().Value;
    var file = request.Form.Files.Where(x => x.Name == "image" && x.Length > 0).FirstOrDefault();

    response = ValidateProperty(idProperty);
    if (response.Code > 0) return response;

    response = ValidateImage(file.FileName);
    if (response.Code > 0) return response;
}

```

## Prototype and Proxy(Mediator)

The mapper works as a dynamic cloning and proxy method.

```
using AutoMapper;
using WeeloAPI.References;
using WeeloCore.Entities;
using WeeloInfrastructure.DataBase;

namespace WeeloAPI.Helpers
{
    // This class is where entities are mapped or converted to other entities.
    10 referencias
    public class MappingProfile : Profile
    {
        //Method to convert one entity to another
        9 referencias
        public MappingProfile()
        {
            CreateMap<FindPropertyRequest, FindPropertyEntity>();
            CreateMap<LoginRequest, LoginEntity>();
            CreateMap<PropertyRequest, PropertyEntity>();
            CreateMap<PropertyTraceRequest, PropertyTraceEntity>();

            CreateMap<PropertyEntity, PropertyRequest>();

            CreateMap<Property, PropertyBasicEntity>();
            CreateMap<Property, PropertyEntity>();
            CreateMap<Account, AccountEntity>();
            CreateMap<Zone, ZoneEntity>();
            CreateMap<City, CityEntity>();
            CreateMap<State, StateEntity>();
            CreateMap<Country, CountryEntity>();
            CreateMap<PropertyImage, PropertyImageBasicEntity>();
            CreateMap<PropertyImage, PropertyImageEntity>();
            CreateMap<PropertyTrace, PropertyTraceEntity>();
        }
    }
}
```

## Memendo: Database temptations work as a kind of memento

```
//Add trace of property from database
2 referencias
public override PropertyTrace Insert(PropertyTrace @object)
{
    var propertyTrace = new PropertyTrace();
    using (var dbContextTransaction = weeloDBContext.Database.BeginTransaction())
    {
        try
        {
            var date = DateTime.Now;
            @object.Create = date;
            propertyTrace = weeloDBContext.PropertyTraces.Add(@object).Entity;

            var property = weeloDBContext.Properties.Where(x => x.Id == @object.IdProperty).FirstOrDefault();
            property.IdOwner = @object.OwnerNew;
            property.Price = @object.Value;
            property.Update = date;

            weeloDBContext.SaveChanges();
            dbContextTransaction.Commit();
        }
        catch
        {
            dbContextTransaction.Rollback();
            propertyTrace = null;
        }
    }

    return propertyTrace;
}
```

## DTO:

```
0 referencias
public Account()...

2 referencias
public Guid Id { get; set; }
1 referencia
public string Name { get; set; }
1 referencia
public string Address { get; set; }
1 referencia
public string Phone { get; set; }
3 referencias
public string Email { get; set; }
2 referencias
public string Password { get; set; }
1 referencia
public string PhotoUrl { get; set; }
1 referencia
public DateTime Birthday { get; set; }
0 referencias
public int AccountType { get; set; }
0 referencias
public int RoleType { get; set; }
1 referencia
public DateTime Create { get; set; }
1 referencia
public DateTime Update { get; set; }

2 referencias
public virtual ICollection<Property> Properties { get; set; }
2 referencias
public virtual ICollection<PropertyTrace> PropertyTraceOwnerNewNavigations { get; set; }
2 referencias
public virtual ICollection<PropertyTrace> PropertyTraceOwnerOldNavigations { get; set; }
}
```

## DAO:

```
//This class is a repository that connects us to the database
2 referencias
public class AccountRepository : GenericRepository<Account>
{
    //Delete account from database
    1 referencia
    public override Account Delete(Guid? id)...

    //Get account from database
    3 referencias
    public override Account Get(Guid? id)...

    //Get all accounts from database
    2 referencias
    public override List<Account> GetAll()...

    //Add account from database
    1 referencia
    public override Account Insert(Account @object)...

    //Update account from database
    1 referencia
    public override Account Update(Account @object)...

    //Get account with email and password from database
    1 referencia
    public Account GetForEmailAndPassword(string email, string password)...
```

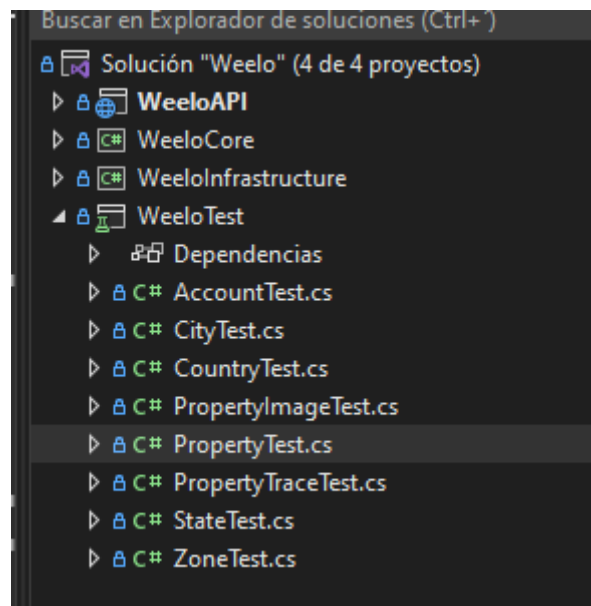
### Constructor:

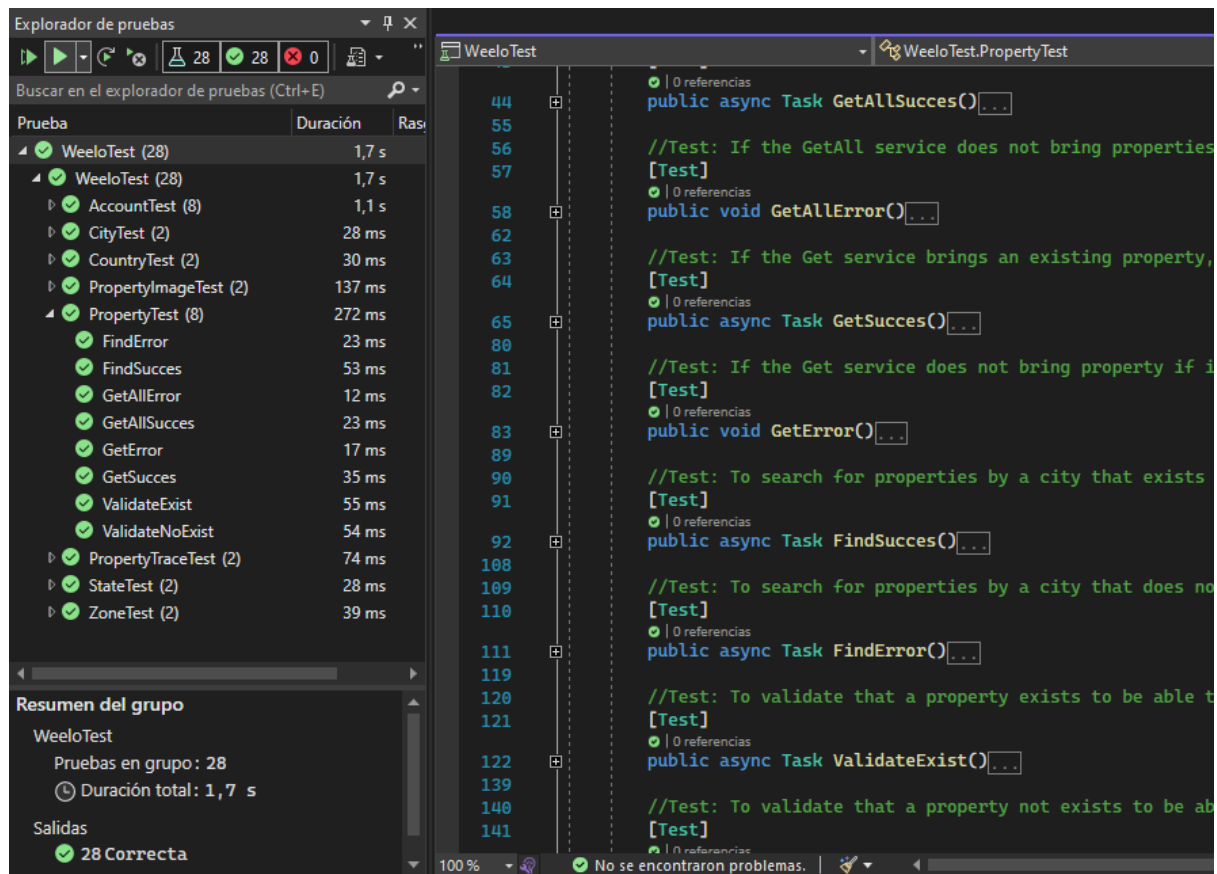
```
32 referencias
public class PropertyImageEntity
{
    1 referencia
    public PropertyImageEntity() { }

    1 referencia
    public PropertyImageEntity(string Url, Guid? IdProperty)
    {
        this.Url = Url;
        this.IdProperty = IdProperty;
        this.Enabled = true;
    }
}
```

### Unit Test:

Test cases for API services are created, in these we make cases of successful results and possible failures.

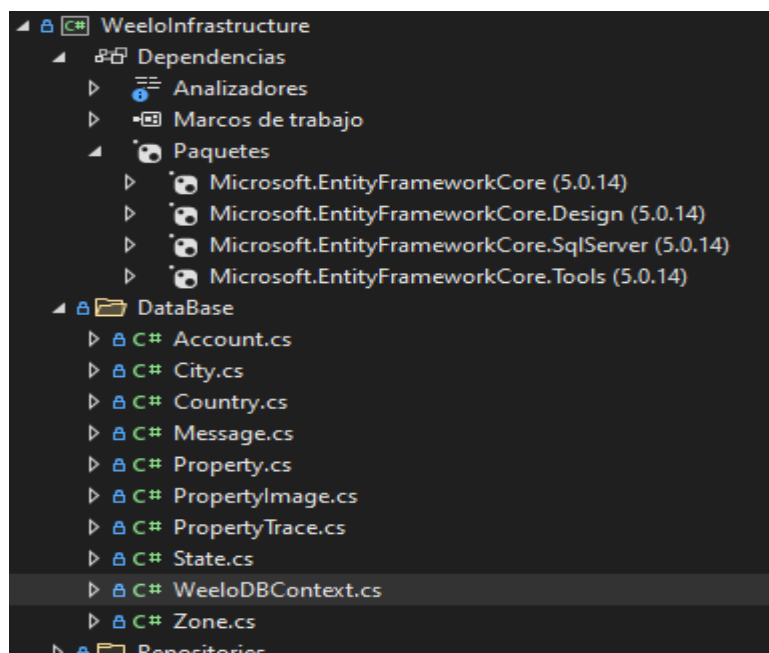




## Security:

To avoid Sql injection the ORM Entity Frame is used. If necessary, string escaping, modeling objects first.

## Entity Frame





```

WeeloDBContext.cs  X PropertyController.cs
[C#] WeeloInfrastructure  WeeloInfrastructure.DataBase.WeeloDBContext

1  using System;
2  using Microsoft.EntityFrameworkCore;
3  using Microsoft.EntityFrameworkCore.Metadata;
4
5  #nullable disable
6
7  namespace WeeloInfrastructure.DataBase
8  {
9      5 referencias
10     public partial class WeeloDBContext : DbContext
11     {
12         1 referencia
13         public WeeloDBContext() ...
14
15         0 referencias
16         public WeeloDBContext(DbContextOptions<WeeloDBContext> options) ...
17
18     }
19 }

```

## String escaping

```

69     var property = Get(@object.Id);
70     property.Update = DateTime.Now;
71     property.Address = @object.Address;
72     property.AreaType = (int)@object.AreaType;
73     property.Bathrooms = @object.Bathrooms;
74     property.ConditionType = (int)@object.ConditionType;
75     property.Description = @object.Description;
76     property.Elevator = @object.Elevator;
77     property.Enabled = @object.Enabled;
78     property.Floor = @object.Floor;
79     property.Furnished = @object.Furnished;
80     property.Garages = @object.Garages;
81     property.Gym = @object.Gym;
82     property.IdOwner = @object.IdOwner;
83     property.IdZone = @object.IdZone;
84     property.Latitude = @object.Latitude;
85     property.Longitude = @object.Longitude;
86     property.Name = @object.Name;
87     property.Oceanfront = @object.Oceanfront;
88     property.Price = @object.Price;
89     property.PropertyType = (int)@object.PropertyType;
90     property.Rooms = @object.Rooms;
91     property.SecurityType = (int)@object.SecurityType;
92     property.SwimmingPool = @object.SwimmingPool;
93     property.Year = @object.Year;

```

## Json Web Token session token handling for Authentication

```
Startup.cs  WeeloDbContext.cs  PropertyController.cs
WeeloAPI
52  IMapper mapper = mapperConfig.CreateMapper();
53  services.AddSingleton(mapper);
54
55  //Authentication Configuration
56  services.AddAuthentication(JwtBearerDefaults.AuthenticationScheme)
57  .AddJwtBearer(options =>
58  {
59
60      options.TokenValidationParameters = new TokenValidationParameters
61      {
62          ValidateIssuer = true,
63          ValidateAudience = true,
64          ValidateLifetime = true,
65          ValidateIssuerSigningKey = true,
66          ValidIssuer = Configuration.GetSection("Jwt")["Issuer"],
67          ValidAudience = Configuration.GetSection("Jwt")["Audience"],
68          IssuerSigningKey = new SymmetricSecurityKey(Encoding.UTF8.GetBytes(Configuration.GetSection("Jwt")["Key"]));
69      };
70  });
71
72  //Corn Configurante
```

```
ToolsConfig.cs  Startup.cs  WeeloDbContext.cs  PropertyController.cs
WeeloAPI
18  private Tools tools = new Tools();
19
20  //Method to generate token per account
21  public string Generate(IConfiguration config, AccountEntity account)
22  {
23      if (account != null)
24      {
25          var securityKey = new SymmetricSecurityKey(Encoding.UTF8.GetBytes(Configuration.GetSection("Jwt")["Key"]));
26          var credentials = new SigningCredentials(securityKey, SecurityAlgorithms.HmacSha256);
27          DateTime expires = DateTime.UtcNow.AddMinutes(Convert.ToInt32(Configuration.GetSection("Jwt")["Expires"]));
28
29          var claims = new[] {
30              new Claim("id", account.Id),
31              new Claim("name", account.Name),
32              new Claim("email", account.Email),
33              new Claim("password", account.Password),
34              new Claim("role", account.Role),
35          };
36
37          var token = new JwtSecurityToken(
38              config.GetSection("Jwt")["Issuer"],
39              config.GetSection("Jwt")["Audience"],
40              claims,
41              expires,
42              signingCredentials: credentials
43          );
44
45          return new JwtSecurityTokenHandler().WriteToken(token);
46      }
47
48      return string.Empty;
49  }
50
```

```

//Method to get token by account
1 referencia
public AccountEntity GetToken(string srtoken)
{
    AccountEntity account = new AccountEntity();

    JwtSecurityTokenHandler handler = new JwtSecurityTokenHandler()
    try
    {
        if (handler.ReadToken(srtoken) is JwtSecurityToken token)
        {
            account.Id = Guid.Parse(token.Claims.FirstOrDefault(x => x.Type == "id").Value);
            account.Name = token.Claims.FirstOrDefault(x => x.Type == "name").Value;
            account.Email = token.Claims.FirstOrDefault(x => x.Type == "email").Value;
            account.RoleType = (RoleType)Enum.Parse(typeof(RoleType), token.Claims.FirstOrDefault(x => x.Type == "role").Value);
        }
    }
    catch { }
}

```

**Basic Cors** with AddHealthChecks to validate who is pinging us:

```

Startup.cs
WeeloAPI
Weelo.Startup

70     });
71
72     //Corn Configurate
73     services.AddHealthChecks().AddCheck("ping", () => {
74     try
75     {
76         using (var ping = new Ping())
77         {
78             var reply = ping.Send("localhost");
79             if (reply.Status != IPStatus.Success)
80             {
81                 return HealthCheckResult.Unhealthy();
82             }
83
84             if (reply.RoundtripTime >= 100)
85             {
86                 return HealthCheckResult.Degraded();
87             }
88
89             return HealthCheckResult.Healthy();
90         }
91     }
92     catch
93     {
94         return HealthCheckResult.Unhealthy();
95     }
96     });
97
98 }

```

## Authorization to endpoints by roles

```
// GET api/<PropertyController>
//Method to get all system properties
[HttpGet]
[Authorize(Roles = "Admin")]
8 referencias | 7/7 pasando
public async Task<IActionResult> GetAll()...

// GET api/<PropertyController>/c9f60fd2-1a6a-415c-9fc2-10fb73d62b46
//Method to get a specific property,with detailed information
[HttpGet("{id}")]
[Authorize(Roles = "Admin,Client")]
4 referencias | 4/4 pasando
public IActionResult Get(Guid? id)
{
    var property = propertyLogic.Get(id);
    if (property != null) return Ok(property);
    return NotFound(property);
}

// POST api/<PropertyController>/Find
//Method to search for properties by city, area, price, year, room number among other filters
[HttpPost]
[Route("Find")]
[Authorize(Roles = "Admin,Client")]
2 referencias | 2/2 pasando
public async Task<IActionResult> Find([FromBody] FindPropertyRequest findPropertyRequest)...
```

**Guid** type identifiers in code and **Uniqueidentifier** in sql server.

- [-] [-] [-] dbo.Property
  - [-] [-] Columns
    - [-] Id (PK, uniqueidentifier, not null)
    - [-] Name (varchar(100), not null)
    - [-] Description (varchar(max), null)

```
namespace WeeloInfrastructure.DataBase
{
    public partial class Property
    {
        public Property()
        {
            PropertyImages = new HashSet<PropertyImage>();
            PropertyTraces = new HashSet<PropertyTrace>();
        }

        public Guid Id { get; set; }

        public string Name { get; set; }

        public string Description { get; set; }
    }
}
```

## Validate input parameters with **InvalidableObject** and **DataAnnotations**

```
7 referencias
public class FindPropertyRequest : IValidableObject
{
    private Tools tools = new Tools();

    2 referencias | 2/2 pasando
    public FindPropertyRequest(Guid? IdCity)
    {
        this.IdCity = IdCity;
    }

    [Required]
    3 referencias
    public Guid? IdCity { get; set; }

    0 referencias
    public Guid? IdZone { get; set; }

    [Required]
    [RegularExpression("[0-9]*", ErrorMessage = "Only numeric value")]
    2 referencias
    public int YearMin { get; set; }

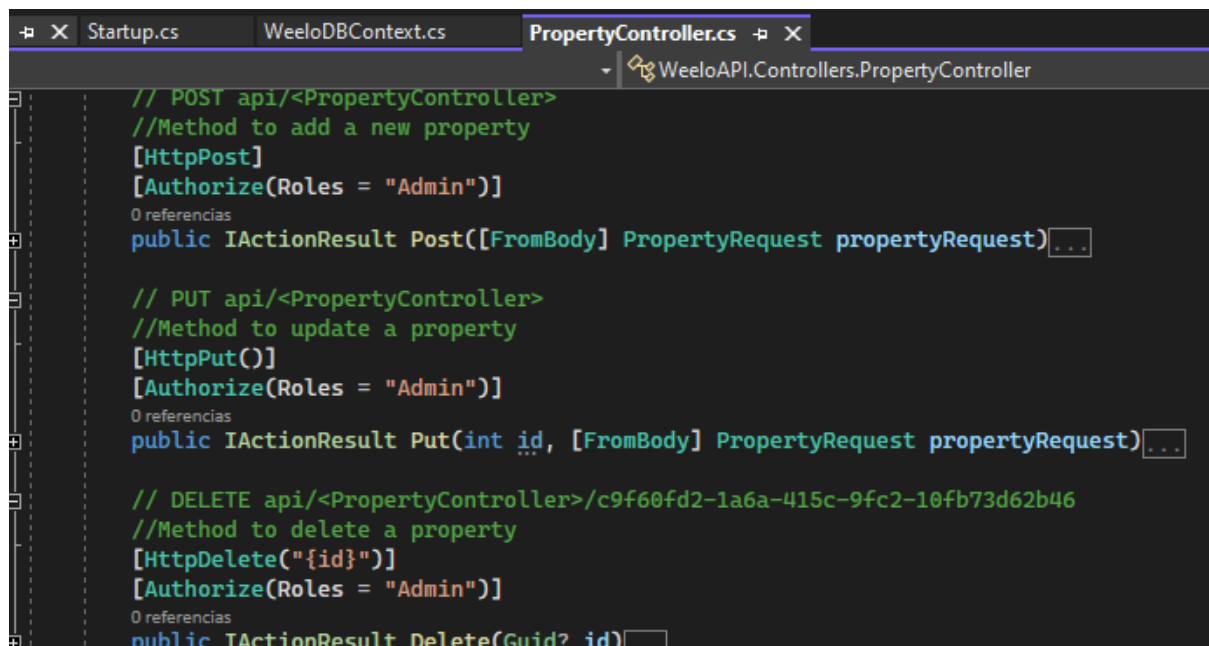
    [Required]
    [RegularExpression("[0-9]*", ErrorMessage = "Only numeric value")]
    2 referencias
    public int YearMax { get; set; } = DateTime.Now.Year;

    [Required]
    [DataType(DataType.Currency)]
    2 referencias
    public decimal PriceMin { get; set; }
}
```

```
FindPropertyRequest.cs  X PropertyController.cs
WeeloAPI.References.FindPropertyRequest
tools

public IEnumerable<ValidationResult> Validate(ValidationContext validationContext)
{
    if (!IdCity.HasValue) yield return new ValidationResult(tools.GetMessage(4, MessageType.Error), new[] { nameof(IdCity) });
    if (PriceMin > PriceMax) yield return new ValidationResult(tools.GetMessage(2, MessageType.Error), new[] { nameof(PriceMin),
    if (YearMin > YearMax) yield return new ValidationResult(tools.GetMessage(2, MessageType.Error), new[] { nameof(YearMin), n
    if (RoomsMin > RoomsMax) yield return new ValidationResult(tools.GetMessage(2, MessageType.Error), new[] { nameof(RoomsMin)
    if (!Enum.IsDefined(typeof(PropertyType), PropertyType)) yield return new ValidationResult(tools.GetMessage(3, MessageType.E
    if (!Enum.IsDefined(typeof(ConditionType), ConditionType)) yield return new ValidationResult(tools.GetMessage(3, MessageType.E
    if (!Enum.IsDefined(typeof(SecurityType), SecurityType)) yield return new ValidationResult(tools.GetMessage(3, MessageType.E
    if (!Enum.IsDefined(typeof(AreaType), AreaType)) yield return new ValidationResult(tools.GetMessage(3, MessageType.Error), t
    if (!Enum.IsDefined(typeof(WithFurnished), WithFurnished)) yield return new ValidationResult(tools.GetMessage(3, MessageType.E
    if (!Enum.IsDefined(typeof(WithGarages), WithGarages)) yield return new ValidationResult(tools.GetMessage(3, MessageType.Er
    if (!Enum.IsDefined(typeof(WithSwimmingPool), WithSwimmingPool)) yield return new ValidationResult(tools.GetMessage(3, Messa
    if (!Enum.IsDefined(typeof(WithGym), WithGym)) yield return new ValidationResult(tools.GetMessage(3, MessageType.Error), ne
    if (!Enum.IsDefined(typeof(WithOceanfront), WithOceanfront)) yield return new ValidationResult(tools.GetMessage(3, MessageT
    if (!Enum.IsDefined(typeof(WithImages), WithImages)) yield return new ValidationResult(tools.GetMessage(3, MessageType.Error
    if (!Enum.IsDefined(typeof(OrderProperty), OrderProperty)) yield return new ValidationResult(tools.GetMessage(3, MessageType
    if (!Enum.IsDefined(typeof(EnabledProperty), EnabledProperty)) yield return new ValidationResult(tools.GetMessage(3, Message
}
```

Call the http (delete, put , get, post , path)

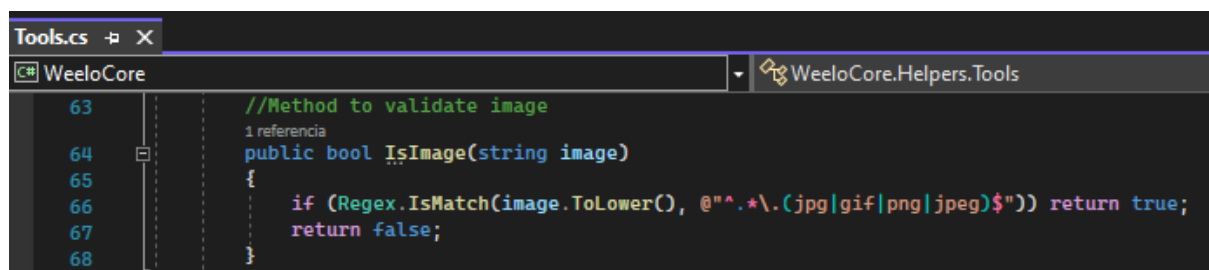


```
// POST api/<PropertyController>
//Method to add a new property
[HttpPost]
[Authorize(Roles = "Admin")]
0 referencias
public IActionResult Post([FromBody] PropertyRequest propertyRequest)...

// PUT api/<PropertyController>
//Method to update a property
[HttpPut()]
[Authorize(Roles = "Admin")]
0 referencias
public IActionResult Put(int id, [FromBody] PropertyRequest propertyRequest)...

// DELETE api/<PropertyController>/c9f60fd2-1a6a-415c-9fc2-10fb73d62b46
//Method to delete a property
[HttpDelete("{id}")]
[Authorize(Roles = "Admin")]
0 referencias
public IActionResult Delete(Guid? id)
```

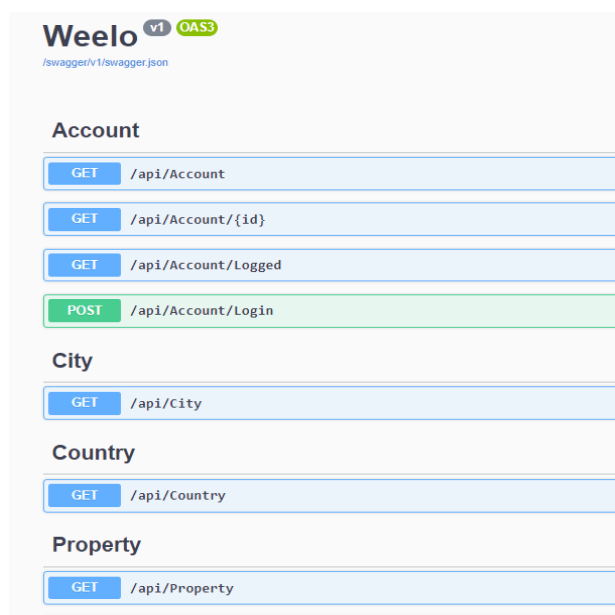
Regex field validations



```
//Method to validate image
1 referencia
public bool IsImage(string image)
{
    if (Regex.IsMatch(image.ToLower(), @"^.*\.(jpg|gif|png|jpeg)$")) return true;
    return false;
}
```

Manage Performance:

Swagger: to manage the services we use the swagger tool



**POST** `/api/Account/Login`

### Parameters

No parameters

### Request body

```
{
  "email": "jadesignature@gmail.com",
  "password": "June123+"
}
```

## Responses

## Curl

```
curl -X POST "https://localhost:44325/api/Account/Login" -H "accept: */*" -H "Content-Type: applicat
```

## Request URL

<https://localhost:44325/api/Account/Login>

### Server response

## Code

### Details

200

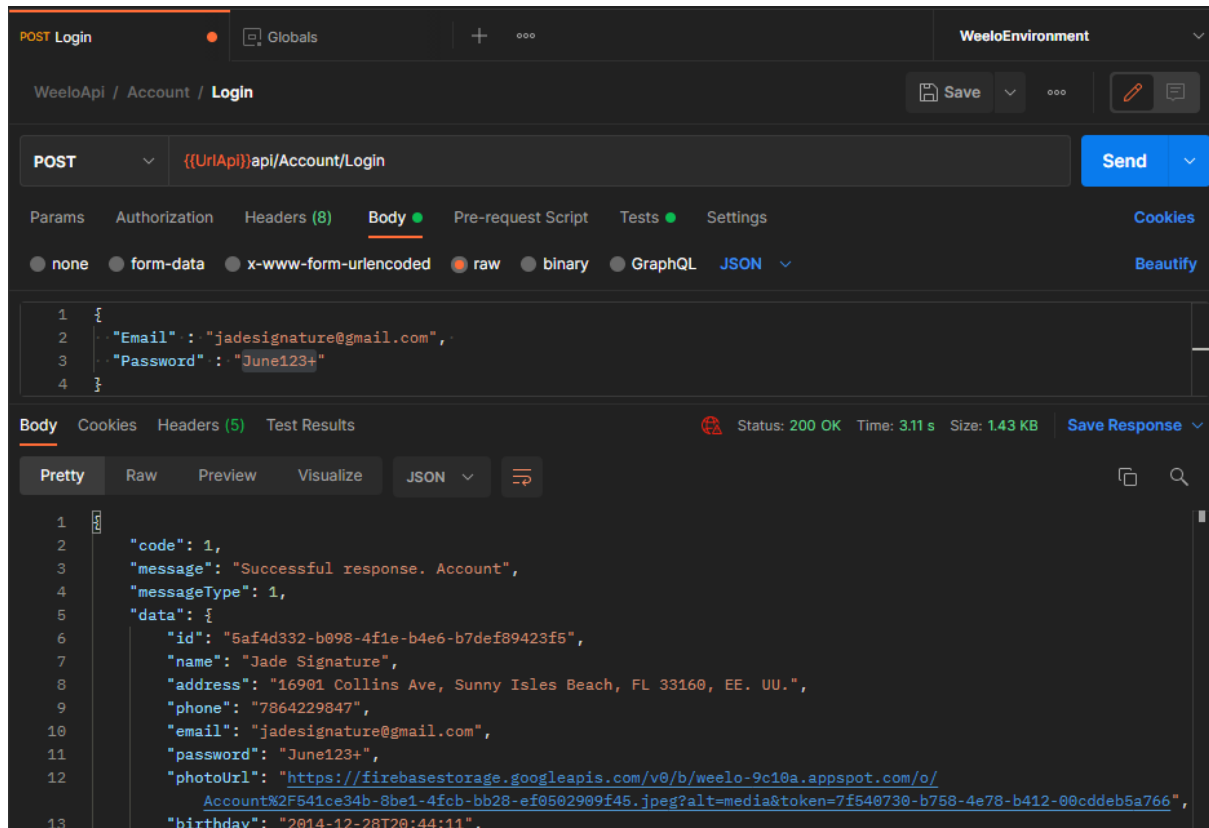
Response body

```
{  
    "code": 1,  
    "message": "Successful response. Account",  
    "messageType": 1,  
    "data": {  
        "id": "5af4d332-b098-4f1e-b4e6-b7def89423f5",  
        "name": "Jade Signature",  
        "address": "16901 Collins Ave, Sunny Isles Beach, FL 33160, EE. UU.",  
        "phone": "7864229847",  
        "email": "jadesignature@gmail.com",  
        "password": "June123+",  
        "photoUrl": "https://firebasestorage.googleapis.com/v0/b/weelo-9c10a.appspot.com/o/Account%2FProfilePictures/JadeSignature.jpg?alt=media&token=a6eb107c-f09c-4376-a239-815947388315",  
        "birthday": "2014-12-28T20:44:11",  
        "accountType": 2,  
        "roleType": 1,  
        "token": "  
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJodHRwOi8vc2NoZWlhcysyZm93cy8yMDA1LzAzLy9yZ2hlbWFiLnhtbHNvYXAub3JnL3dzLzIwMDEVMDVudWakRlbnRpdiHkvZ2xhaw1zL25hbWUiOiJKYWRIIFNpb2Z5hdGFzaWduYXRxcmlhbmVhZ21haWwuy29tIiwiaHR0cDovL3NjaGVtYXkiOnBjbWljcm9zb2Z0LmNmbs5S93cy8yMDA1LzAzL2lkZkZlc3R1bi5kaGVhZCBoZiO8vbG93jYmxob3N0bjQ0MziIllyJ9.kDN15YSZ6awYmEXD7sLDKBKSDDAXAZwPtGFeq3d4wM",  
        "create": "2022-03-03T14:56:24.843",  
        "update": "2022-03-03T14:56:24.843"  
    }  
}
```

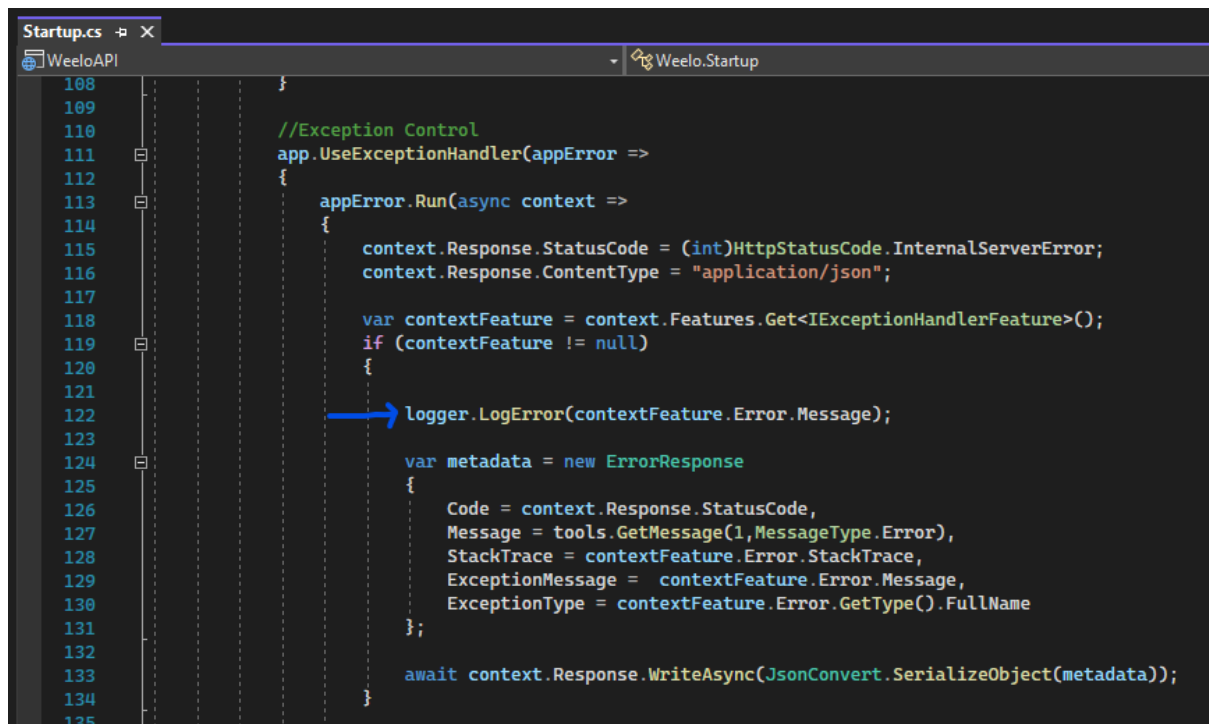
## Response headers

```
content-type: application/json; charset=utf-8
date: Mon07 Mar 2022 03:23:28 GMT
server: Microsoft-IIS/10.0
x-powered-by: ASP.NET
```

**Postman:** To manage the services, you know their response times, among other things, we use the postman tool.



**Ilogger** management to save logs





## Handle partial updates with path

```
// PATCH api/<PropertyController>/Enable
//Method to delete a property
[HttpPatch()]
[Route("Enable")]
[Authorize(Roles = "Admin")]
0 referencias
public IActionResult Enable(Guid? id, bool enable)
{
    var response = propertyLogic.UpdatePropertyEnable(id, enable);
    if (response != null) return Ok(response);
    return BadRequest(response);
}

// PATCH api/<PropertyController>/Price
//Method to delete a property
[HttpPatch()]
[Route("Price")]
[Authorize(Roles = "Admin")]
0 referencias
public IActionResult Price(Guid? id, decimal price)
{
    var response = propertyLogic.UpdatePropertyPrice(id, price);
    if (response != null) return Ok(response);
    return BadRequest(response);
}
```

## Task management and concurrent processes

```
// GET api/<PropertyController>
//Method to get all system properties
[HttpGet]
[Authorize(Roles = "Admin")]
8 referencias | 7/7 pasando
public async Task<IActionResult> GetAll()
{
    var properties = new List<PropertyEntity>();
    await Task.Run(() =>
    {
        properties = propertyLogic.GetAll();
    });

    if (properties.Any()) return Ok(properties);
    return NotFound(properties);
}
```

## Best Practices:

Several good practices have already been implemented and explained from the architecture level, such as structure, security and performance, however many more good programming practices were implemented in this API.

**Linq** : work with the linq tool for handling data structures.

**Any**: Validate lists with Any and not with null

## Component Oriented Programming

```
//Method to get all system properties
3 referencias
public List<PropertyEntity> GetAll()
{
    var propertyEntities = new List<PropertyEntity>();

    var properties = propertyRepository.GetAll();
    if (properties.Any())
    {
        propertyEntities = properties.Select(x => mapper.Map<PropertyEntity>(x)).ToList();
        if (propertyEntities.Any()) propertyEntities.ForEach(x => Arrive(x));
    }

    return propertyEntities;
}
```

## Handling interfaces and abstract classes

```
namespace WeeloCore.Logic
{
    //This interface class to inherit methods from basic to logic classes.
    8 referencias
    public interface ILogic<TDomainObject>
    {
        15 referencias
        public abstract List<TDomainObject> GetAll();
        27 referencias
        public abstract TDomainObject Get(Guid? id);
        10 referencias
        public abstract BaseResponse<TDomainObject> Insert(TDomainObject @object);
        9 referencias
        public abstract BaseResponse<TDomainObject> Delete(Guid? id);
        9 referencias
        public abstract BaseResponse<TDomainObject> Update(TDomainObject @object);
        62 referencias
        public abstract BaseResponse<TDomainObject> MessageResponse(int code, MessageType
    }
}
```

```

namespace WeeloInfrastructure.Repositories
{
    //This abstract base class for inheriting methods to repositories, and
    public abstract class GenericRepository<TDomainObject>
    {
        public DataBase.WeeloDBContext weeloDBContext = new DataBase.WeeloDBContext();

        public abstract TDomainObject Get(Guid? id);

        public abstract List<TDomainObject> GetAll();

        public abstract TDomainObject Insert(TDomainObject @object);

        public abstract TDomainObject Delete(Guid? id);

        public abstract TDomainObject Update(TDomainObject @object);
    }
}

```

## Emun management

```

EnumType.cs  GenericRepository.cs  ILogic.cs  LoginEntity.cs  PropertyLogic.cs
WeeloCore
4  using System.Text;
5  using System.Threading.Tasks;
6
7  namespace WeeloCore.Helpers
8  {
9      public class EnumType
10     {
11         // To find out if an account belongs to a natural person or a constructor
12         public enum AccountType
13         {
14             Person = 1,
15             Builder = 2
16         }
17
18         // To know the role of an account
19         public enum RoleType
20         {
21             Admin = 1,
22             Client = 2
23         }
24
25         // To know the type of property you are looking for
26         public enum PropertyType
27         {
28             None = 0,
29             Apartment = 1,
30             House = 2,
31             Farm = 3,
32             Local = 4
33         }
34     }
35 }

```

## Handling error messages based on

	Code	MessageType	Message
▶	1	1	Successful response.
	1	2	Oops, an error has occurred! Please contact our support team.
	2	2	The minimum value must be less than the greater.
	3	2	Does not exist.
	4	2	Required.
	5	2	It exceeds the allowed values.
	6	2	The transaction was not processed.
	7	2	It already exists.
*	NULL	NULL	NULL

```
//Class for general methods used by the logic layer
21 referencias
public class Tools
{
    MessageRepository messageRepository;

    10 referencias
    public Tools()...

    //Method to get success or error messages from database
    48 referencias
    public string GetMessage(int Code, MessageType messageType)
    {
        return messageRepository.GetAll().Where(x => x.Code == Code && x.MessageType == (int)me
    }

    //Method to save an image in firebase storage
    1 referencia
}
```

## Exceptions global Exception Handler (In ASP.NET Core)

```
Startup.cs ▶ X
WeeloAPI Weelo.Startup tools
108
109
110 //Exception Control
111 app.UseExceptionHandler(appError =>
112 {
113     appError.Run(async context =>
114     {
115         context.Response.StatusCode = (int)HttpStatusCode.InternalServerError;
116         context.Response.ContentType = "application/json";
117
118         var contextFeature = context.Features.Get<IExceptionHandlerFeature>();
119         if (contextFeature != null)
120         {
121             logger.LogError(contextFeature.Error.Message);
122
123             var metadata = new ErrorResponse
124             {
125                 Code = context.Response.StatusCode,
126                 Message = tools.GetMessage(1, MessageType.Error),
127                 StackTrace = contextFeature.Error.StackTrace,
128                 ExceptionMessage = contextFeature.Error.Message,
129                 ExceptionType = contextFeature.Error.GetType().FullName
130             };
131
132             await context.Response.WriteAsync(JsonConvert.SerializeObject(metadata));
133         }
134     });
135
136
137 }
```

## Exceptions use Developer Exception Page

```
// This method gets called by the runtime. Use this method to configure the HTTP request pipeline.
0 referencias
public void Configure(IApplicationBuilder app, IWebHostEnvironment env, ILogger<Startup> logger)
{
    if (env.IsDevelopment())
    {
        app.UseDeveloperExceptionPage();
        app.UseSwagger();
        app.UseSwaggerUI(c => c.SwaggerEndpoint("/swagger/v1/swagger.json", "Weelo v1"));
    }

    //Exception Control
    app.UseExceptionHandler(appError =>
```

## Sort and filter searches

```
//Method to filter properties
1 referencia
private List<PropertyBasicEntity> Filter(List<PropertyBasicEntity> properties, FindPropertyEntity find)
{
    if (find != null && properties.Any())
    {
        if (!string.IsNullOrEmpty(find.IdZone.ToString())) properties = properties.Where(x => x.IdZone == find.IdZone).
        if (find.YearMin > 0 && find.YearMax > find.YearMin) properties = properties.Where(x => x.Year >= find.YearMin
        if (find.PriceMin > 0 && find.PriceMax > find.PriceMin) properties = properties.Where(x => x.Price >= find.Pric
        if (find.RoomsMin > 0 && find.RoomsMax > find.RoomsMin) properties = properties.Where(x => x.Rooms >= find.Room
        if (find.PropertyType != PropertyType.None) properties = properties.Where(x => x.PropertyType == find.PropertyType
        if (find.ConditionType != ConditionType.None) properties = properties.Where(x => x.ConditionType == find.Condit
        if (find.SecurityType != SecurityType.None) properties = properties.Where(x => x.SecurityType == find.SecurityT
        if (find.AreaType != AreaType.None) properties = properties.Where(x => x.AreaType == find.AreaType).ToList();
        if (find.WithFurnished == WithFurnished.Furnished) properties = properties.Where(x => x.Furnished == true).ToLi
        if (find.WithFurnished == WithFurnished.NotFurnished) properties = properties.Where(x => x.Furnished == false).
        if (find.WithGarages == WithGarages.Garages) properties = properties.Where(x => x.Garages > 0).ToList();
        if (find.WithGarages == WithGarages.NotGarages) properties = properties.Where(x => x.Garages < 0).ToList();
        if (find.WithSwimmingPool == WithSwimmingPool.SwimmingPool) properties = properties.Where(x => x.SwimmingPool =
        if (find.WithSwimmingPool == WithSwimmingPool.NotSwimmingPool) properties = properties.Where(x => x.SwimmingPool
        if (find.WithGym == WithGym.Gym) properties = properties.Where(x => x.Gym == true).ToList();
        if (find.WithGym == WithGym.NotGym) properties = properties.Where(x => x.Gym == false).ToList();
        if (find.WithOceanfront == WithOceanfront.Oceanfront) properties = properties.Where(x => x.Oceanfront == true).
        if (find.WithOceanfront == WithOceanfront.NotOceanfront) properties = properties.Where(x => x.Oceanfront == fal
        if (find.WithImages == WithImages.Images) properties = properties.Where(x => !string.IsNullOrEmpty(x.ImageUrl))
        if (find.WithImages == WithImages.NotImages) properties = properties.Where(x => string.IsNullOrEmpty(x.ImageUrl

        if (find.OrderProperty == OrderProperty.PriceMin) properties = properties.OrderBy(x => x.Price).ToList();
        if (find.OrderProperty == OrderProperty.PriceMax) properties = properties.OrderByDescending(x => x.Price).ToLis
        if (find.OrderProperty == OrderProperty.YearMax) properties = properties.OrderByDescending(x => x.Year).ToList()

        if (find.EnabledProperty == EnabledProperty.Enabled) properties = properties.Where(x => x.Enabled == true).ToLi
        if (find.EnabledProperty == EnabledProperty.NotEnabled) properties = properties.Where(x => x.Enabled == false)
    }
}
o se encontraron problemas.
```

## Paginated for searches

```
1 referencia
public List<PropertyBasicEntity> Find(FindPropertyEntity find, int itemsForPage)
{
    var properties = new List<PropertyBasicEntity>();

    if (find.IdCity.HasValue)
    {
        properties = GetAllForCity(find.IdCity);
        properties = Arrive(properties);
        properties = Filter(properties, find);
    }

    return properties.Skip(itemsForPage * find.Page).Take(itemsForPage).ToList();
}

//Method to get a specific property with detailed information
```


## To save images fire storage

```
//Method to save an image in firebase storage
1 referencia
public async Task<string> UploadImage(Stream stream, string fileName, IConfiguration config)
{
    var auth = new FirebaseAuthProvider(new FirebaseConfig(config.GetSection("Storage")["ApiKey"]));
    var a = await auth.SignInWithEmailAndPasswordAsync(config.GetSection("Storage")["AuthEmail"], config.

    var cancellation = new CancellationTokenSource();

    var task = new FirebaseStorage(
        config.GetSection("Storage")["Bucket"],
        new FirebaseStorageOptions
        {
            AuthTokenAsyncFactory = () => Task.FromResult(a.FirebaseToken),
            ThrowOnCancel = true
        })
        .Child("Property")
        .Child(fileName)
        .PutAsync(stream, cancellation.Token);


    try
    {
        return await task;
    }
    catch (Exception ex)
    {
        throw new NotImplementedException(ex.Message);
    }
}
```


 **Firebase**


🏠 Descripción general de


⚙️


Compilación


 Authentication


 Firestore Database

 Realtime Database


 **Storage**


 Hosting

 Functions

 Machine Learning

Lanzamiento y supervisión

 Crashlytics

 Extensions

Spark  
Gratis \$0 por mes

Actualizar

Weelo

[Ir a la documentación](#)






# Storage


Files Rules Usage

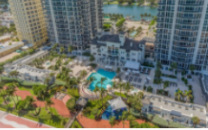
Protege tus recursos de Storage contra los abusos, como fraudes de facturación o suplantación de identidad. [Configurar la Verificación de aplicaciones](#)

gs://weelo-9c10a.appspot.com > Property

Subir archivo

<input type="checkbox"/>	Nombre	Tamaño	Tipo	Modificación más reciente
<input type="checkbox"/>	 26233018_10214152330857487_2245214584506176176_o.jpg	250.01 KB	image/jpeg	5 mar 2022
<input type="checkbox"/>	 Apt1-1.png	917.17 KB	image/png	23 feb 2022
<input type="checkbox"/>	 Apt1-2.png	440.65 KB	image/png	23 feb 2022
<input type="checkbox"/>	 Apt2-1.png	645.38 KB	image/png	23 feb 2022
<input type="checkbox"/>	 Apt2-2.png	345.54 KB	image/png	23 feb 2022

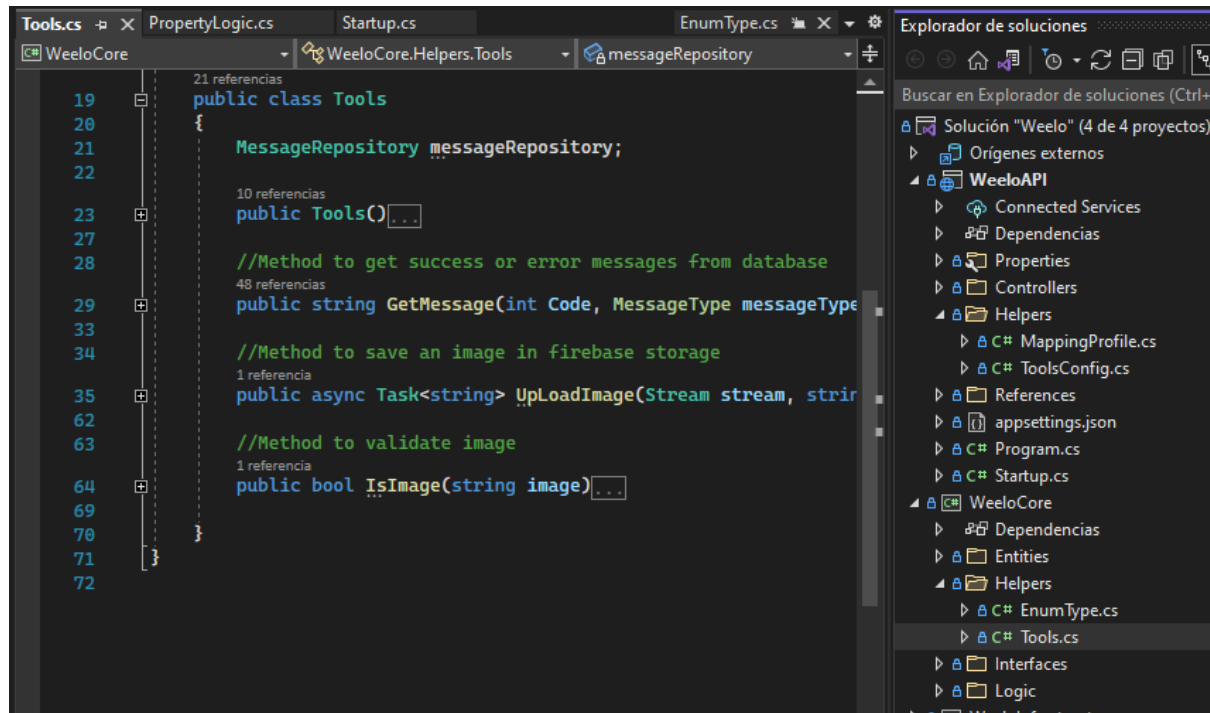
 Apt1-1.png



Nombre  
[Apt1-1.png](#)

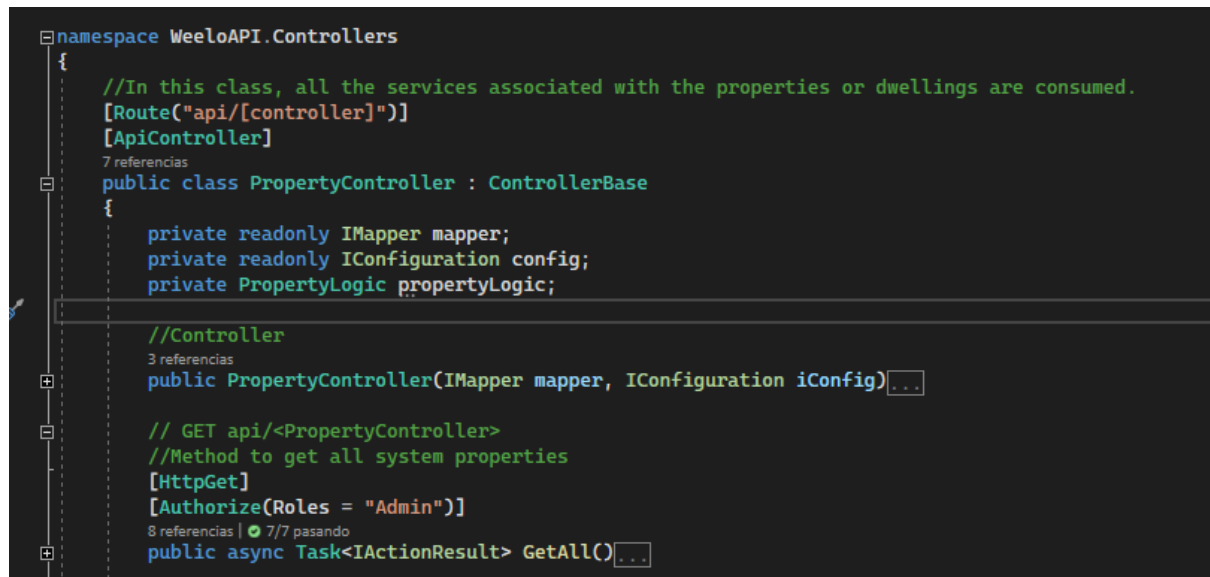
Tamaño  
939,185 bytes

## Helper classes



## Documentation Code:

All the code is well documented, the commented classes and methods as well as the enum among others, it is explained what each of these does.



Good nomenclature and names of attributes, methods and classes to know what they do.



**Nomenclatures:** Good nomenclatures for names of classes, methods and objects

```
namespace WeeloCore.Entities
{
    3 referencias
    public class LoginEntity
    {
        [Required]
        [EmailAddress]
        2 referencias
        public string Email { get; set; }

        [Required]
        [DataType(DataType.Password)]
        2 referencias
        public string Password { get; set; }
    }
}
```

```
//Controller
1 referencia
public PropertyLogic(IMapper mapper)[...]

//Method to search for properties by city, area, price, year, room number among other filters
1 referencia
public List<PropertyBasicEntity> Find(FindPropertyEntity find,int itemsForPage)[...]

//Method to get a specific property,with detailed information
6 referencias
public PropertyEntity Get(Guid? id)[...]

//Search properties by a city
1 referencia
public List<PropertyBasicEntity> GetAllForCity(Guid? idCity)[...]

//Method to get all system properties
3 referencias
public List<PropertyEntity> GetAll()[...]

//Method to add a new property
2 referencias
public BaseResponse<PropertyEntity> Insert(PropertyEntity propertyInfoEntity)[...]

//Method to delete a property
2 referencias
public BaseResponse<PropertyEntity> Delete(Guid? id)[...]
```

In addition, a delivery manual is left for the configuration and management of the API.



Some of the 22 API services:  
Login

POST Login

POST New

GET Get

WeeloEnvironment

WeeloApi / Account / Login

Save

Send

POST

{{UriApi}}api/Account/Login

ParamsAuthHeaders (8)BodyPre-req. TestsSettings

rawJSON

1 {  
2 "Email": "jadesignature@gmail.com",  
3 "Password": "June123+"  
4 }

Body

200 OK16 ms1.43 KB

Save Response

PrettyRawPreviewVisualizeJSON

1 {  
2 "code": 1,  
3 "message": "Successful response. Account",  
4 "messageType": 1,  
5 "data": {  
6 "id": "5af4d332-b098-4f1e-b4e6-b7def89423f5",  
7 "name": "Jade Signature",  
8 "address": "16901 Collins Ave, Sunny Isles Beach, FL  
33160, EE. UU.",  
9 "phone": "7864229847",  
10 "email": "jadesignature@gmail.com",  
11 "password": "June123+",  
12 "photoUrl": "https://firebasestorage.googleapis.com/v0/  
b/weelo-9c10a.appspot.com/o/

Documentation

https://localhost:44325/api/Account/Login

</>Service to login and get a token

Request

EmailEmail from an existing account

PasswordPassword from an existing account

Response

CodeMessage code

MessageMessage Text

MessageTypeMessage Type

DataResult

Data/TokenLogin token

Body raw (json)

View complete collection documentation →

Create Property Building

POST Login

POST New

Weelo

WeeloApi / Property / New

Save

POST

{{UriApi}}api/Property

ParamsAuthorizationHeaders (9)BodyPre-request ScriptTestsSettings

noneform-data x-www-form-urlencodedrawbinaryGraphQLJSON

1 {  
2 "id": "00000000-0000-0000-0000-000000000000",  
3 "name": "House Oceanside 10",  
4 "description": "This stunning ground-floor Oceanside unit on Fisher Island redefines luxury liv  
5 "address": "7735 FISHER ISLAND DR #7716, MIAMI, FL 33109",  
6 "latitude": 25.76,  
7 "longitude": -80.14,  
8 }

BodyCookiesHeaders (5)Test Results

Status: 200 OKTime: 36 msSize:

PrettyRawPreviewVisualizeJSON

1 {  
2 "code": 1,  
3 "message": "Successful response. Property",  
4 "messageType": 1,  
5 "data": {  
6 "id": "bd8728a0-5f23-440d-a4a2-26702ac73cf9",  
7 "name": "House Oceanside 10",  
8 "description": "This stunning ground-floor Oceanside unit on Fisher Island redefines luxu  
finest "

## Add Image from property

POST Login

POST New

+

...

WeeloEnvironment

WeeloApi / PropertyImage / New

Save

...

Send

POST

{{UriApi}}api/PropertyImage

Params

Auth

Headers (9)

Body

Pre-req.

Tests

Settings

Cookies

form-data

	KEY	VALUE	DESCRIPTION	...	Bulk Edit
<input checked="" type="checkbox"/>	Image	26233018_10214152330...			
<input checked="" type="checkbox"/>	Id	b02b4815-f0d5-480b-ac41-...			

Body

200 OK

1912 ms

562 B

Save Response

Pretty

Raw

Preview

Visualize

JSON

...

```
1 {
2   "code": 1,
3   "message": "Successful response. Image",
4   "messageType": 1,
5   "data": {
6     "id": "111f047a-c3be-4d2e-999b-333f5cee832d",
7     "url": "https://firebasestorage.googleapis.com/v0/b/weelo-9c10a-
      appspot.com/o/
      Property%2F26233018_10214152330857487_2245214584506176176_o.
      jpg?alt=media&token=3a8d3051-4354-422d-a929-db60adad0f3d",
8     "enabled": true,
9     "idProperty": "b02b4815-f0d5-480b-ac41-1883c1cdbebe"
10   }
11 }
```

Documentation

https://localhost:44325/api/PropertyImage

</>

Method to upload an image to a property

Request	
image	Image File
id	Id of Property

Response	
Code	Message code
Message	Message Text
MessageType	Message Type
Data	Result
Data/url	url of image

Authorization

Bearer Token

Token

{{TOKEN}}

View complete collection documentation →

## Change Price

PATCH Price

+

...

WeeloApi / Property / Price

PATCH

{{UriApi}}api/Property/Price?id=83254d62-6d6b-4903-8e13-83a44b608fdc&price=9900000

Params

Authorization

Headers (8)

Body

Pre-request Script

Tests

Settings

	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	id	83254d62-6d6b-4903-8e13-83a44b608fdc	
<input checked="" type="checkbox"/>	price	9900000	
	Key	Value	Description

Body

Cookies

Headers (5)

Test Results

Status: 200 OK

Time:

Pretty

Raw

Preview

Visualize

JSON

...

```
1 {
2   "code": 1,
3   "message": "Successful response. Property",
4   "messageType": 1,
5   "data": {
6     "id": "83254d62-6d6b-4903-8e13-83a44b608fdc",
7     "name": "House Oceanside",
8     "description": "This stunning ground-floor Oceanside unit on Fisher Island rec
      finest.",
9     "address": "7716 FISHER ISLAND DR #7716, MIAMI, FL 33109",
10    "latitude": 25.76,
11    "longitude": -80.14,
12    "codeInternal": 5,
13    "year": 2020,
```

Update property

PATCH PricePUT Update+...

WeeloApi / Property / Update

PUT{{UrlApi}}api/Property

ParamsAuthorization ●Headers (9)Body ●Pre-request ScriptTestsSettings

●none●form-data●x-www-form-urlencoded●raw●binary●GraphQLJSON ▾

```
1{"id": "83254d62-6d6b-4903-8e13-83a44b608fdc",
2  "name": "House Oceanside",
3  "description": "This stunning ground-floor Oceanside unit on Fisher Island redefin
4  "address": "7716 FISHER ISLAND DR #7716, MIAMI, FL 33109",
5  "latitude": 25.76
```

BodyCookiesHeaders (5)Test ResultsStatus: 200 OK Tin

PrettyRawPreviewVisualizeJSON ▾↺

```
1{"code": 1,
2  "message": "Successful response. Property",
3  "messageType": 1,
4  "data": {
5    "id": "83254d62-6d6b-4903-8e13-83a44b608fdc",
6    "name": "House Oceanside",
```

List property with filters

PATCH PricePUT UpdatePOST Find+...WeeloEnvironment ▾

WeeloApi / Property / FindSave ▾...✎🗨

POST{{UrlApi}}api/Property/FindSend ▾

ParamsAuth ●Headers (9)Body ●Pre-req. Tests Settings...

raw ▾JSON ▾Beautify

```
1{"IdCity": "4150a58c-a540-49e1-ae66-b43ca8908674",
2  "idZone": null,
3  "yearMin": 0,
4  "yearMax": 0,
5  "priceMin": 0,0
```

Body ▾200 OK 55 ms 6.36 KB Save Response ▾

PrettyRawPreviewVisualizeJSON ▾📄🔍

```
1{
2  "id": "000ce74b-225a-428e-b591-02e29fec92b7",
3  "idZone": "8a0ef6db-f81b-47ac-9c56-2a94c36668bc",
4  "idOwner": "5af4d332-b098-4f1e-b4e6-b7def89423f5",
```

Documentation

Service to bring list with filters, some ordering and by pagination.

Request	
IdCity	id city required
idZone	id city not required
yearMin	minimum search year
yearMax	maximum search year
priceMin	minimum search price
priceMax	maximum search price
roomsMin	minimum search rooms
roomsMax	maximum search rooms
propertyType	None = 0, Apartment = 1, House = 2,