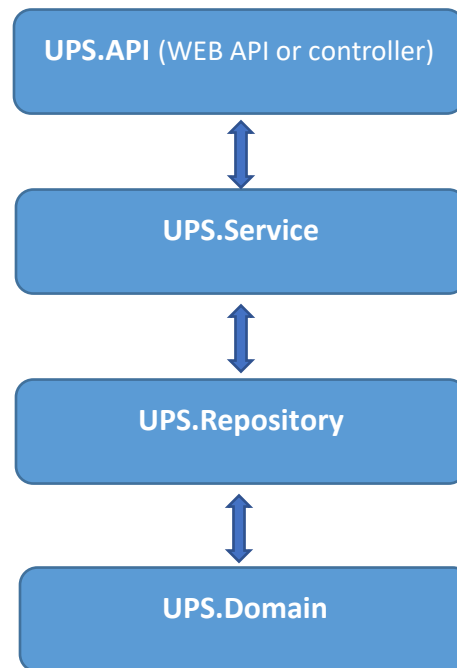This assignment includes 4 projects **UPS.API** as WEB API, **UPS.Service** as service, **UPS.Repository** as repository layer and **UPS.Domain** as model and data layer.

Note: JWT is not completely implemented in this project so the access token does not work.

```
┌─────────────────────────────────────┐
│   UPS.API (WEB API or controller)    │
└─────────────────────────────────────┘
                  ⇕
┌─────────────────────────────────────┐
│            UPS.Service               │
└─────────────────────────────────────┘
                  ⇕
┌─────────────────────────────────────┐
│           UPS.Repository             │
└─────────────────────────────────────┘
                  ⇕
┌─────────────────────────────────────┐
│            UPS.Domain                │
└─────────────────────────────────────┘
```

UPS.Domain:

In data layer in memory database is used.

There is a class named **Entity** as entity base, which includes property named Id as primary key with generic data type. There is another class called **Employee** inherit Entity class.

UPS.Repository:

In repository project some design pattern like repository pattern, unit of work and generic repository have been implemented.

UPS.Service:

This project would transform requests and data between repository layer and controller. The main reason to have this layer is to implement logics in this layer, also it has a ViewModel to translate data from controller to actual entity by this way end user does not have access to the actual entity.

IGeneric services and Pagination have been implemented in this project.

Dependencies:

microsoft.entityframeworkcore\7.0.11

microsoft.entityframeworkcore.inmemory\7.0.11

microsoft.aspnetcore.authentication.jwtbearer\6.0.0\

newtonsoft.json\13.0.3\

swashbuckle.aspnetcore\6.2.3\