Project Description and Information Document

Project Case: Trendyol Link Conveter

Description and Information:

- **The project is coded with clean architecture. Nice and informative articles have been added to the readme file.**

- **In the articles, information is given on issues such as clean code, CQRS, MediatoR Pattern, Repository Pattern, OOP, SOLID etc.**

- **Developing each DB Domain separately in Clean Architecure provides convenience for Microservice and Distributed Data approach.**

- **In the mail to which the case was sent, the issues that need attention are stated as follows.**
  - **Cleand Code**
  - **Apply of the SOLID Principles**
  - **Code Smell should be reduced as much as possible**
  - **Behaviour Tests**
  - **Coding with TDD**
- **Developments have been made according to the above items.**

- **The project coded in .NET 5 Framework. (so .NET Core Framework)**

- **While coding the project, CQRS pattern(in Application Layer), MeditoR pattern(in Application Layer) and Repository pattern(in Infrastructure Layer) used.**

- **Postgresql used for Data Storage.(Database)**

- **Xunit test framework used for unit tests.**

- **I made swagger integration for easy testing.**

Running the Project:

- **To run the project, the " dotnet watch run" command must be run in the “src\WebApi” directory in the Solution. When this command is run, the migrations are going to be created on DB automatically and the aapplication is going to work. It is crucial that I have used my Postgres server’s password so user and password parts in “src\Persistence\TrendyolDbContext” are required to changed when you want to run the project.**

- **As an alternative way to run the project; it has been dockerized. You are also able to test it by running the "docker compose build" and then the "docker compose up" command respectively in the directory where the docker-compose.yml file is.**

- **Furthermore; as another alternative way I did not add azure CI/CD pipeline in repostory ,however; if you cannot run the application on local, I can share with you the applicationlink that I have configured on azure.**

- **If you want to check the unit tests, you can run "dotnet test" command in the directory of the related unit test.**

Testing the Project:

- **You are provided with sample request in case document. After running the application you can execute the related service via the copied request on the swagger screen.**

Finally, I think I have explained the project in general. I am looking forward to next metting.

I wish good health and healthy days.

Good work.

Burak ÇALIŞGAN