

Home assignment

This task is to design, implement and document a REST API that uses a relational database as a repository. You are free to choose a topic, but you can also use one of the following examples:

- person/project feedback
- project reporting project reference
- or device/license registry system.

We prefer .NET technology in our projects, but other technologies can be used if desired (e.g. Node.js, Go). When evaluating peer-to-peer solutions implemented with different technologies, we prioritize .NET implementation.

Below you can find some suggestions for libraries and technologies (.NET) that can be used for implementation:

- Framework: ASP.NET
- Data access: Entity Framework Core, Dapper
- Database: SQL Server, PostgreSQL, SQLite
- Logging: Built-in logger, Serilog

The API implementation can be run in the environment of your choice. For example, one of the following:

- Locally on your own machine
- Containers on your own machine or in the cloud (e.g. Azure)
- Cloud services.
- For example, in Azure:
- API: Azure App Service, Azure Container Apps, Azure Functions
- Database: Azure SQL Database, Azure Database for PostgreSQL

If there is enough time and enthusiasm, extra points could be given if, for example, you will consider the following aspects in the implementation:

- Unit tests: e.g. xUnit, MSTest
- API documentation (Open API / Swagger)
- Authentication / Authorization
- Database migrations
- Web interface (React, Svelte, Vue, Vanilla JS ...)
- CI / CD pipeline

- Presentation of the solution

Assignment return:

- Submission through GitHub. Please, send your link to the GitHub / GitLab repository by email to:

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