

Task .NET – simple RESTAPI with few endpoints

Your task is to create a REST API that will cover typical operations.

Object – ToDo task.

Minimal ToDo structure:

- Date and Time of expiry
- Title
- Description
- % Complete

Required Operations:

- Get All Todo's
- Get Specific Todo
- Get Incoming ToDo (for today/next day/current week)
- Create Todo
- Update Todo
- Set Todo percent complete
- Delete Todo
- Mark Todo as Done

Requirements:

- .net >= 8.0
- Minimal API / Web API
- data persisted in db using ORM (postgresql/mysql/mariadb)
- xunit for unit/integration tests
- commented code
- code must be ready to compile and run
- solution shouldn't require running any external scripts
- data should be properly validated

Nice to have:

- Code running in docker
- performance tests

During the code review we will focus on:

- completeness of the implementation
- architecture , techniques and patterns used
- quality of code
- test coverage and quality

Formal requirements:

1. Solution should be delivered as Visual Studio 2019/2022 / Visual Studio Code / RIDER project

2. All source code must be compiled without errors additionally we prefer compiled code without warnings
3. Code should be placed on public git repository (one of: github, bitbucket, gitlab)