Take-home Coding Assignment

Requirement

Candidate should have the appropriate IDE installed.

* Visual Studio 2019 or later (Windows), Visual Studio for Mac 2019 or later (MacOS)

# Assignment - 1

Develop a very simple RESTful application that demonstrates the ability to

* Add a new Task
* Update Tasks that already exist.

# Overall Requirements

* Visual Studio 2019 or Visual Studio 2022 should be used to build the application
* The application should be written as an ASP.Net Core Web API application (ASP.Net Core 6/ C#)
* Unit tests should be used to run the application (create or update)

# Task Requirements

* When creating a Task, the Due Date cannot be in the past
* The due date cannot be on a Holiday or weekend.
* The system should not have more than 100 High Priority tasks which have the same due date and are not finished
* The domain should include the following:
* Id
* Name
* Description
* Due Date
* Start Date
* End Date
* Priority (High, Medium, Low)
* Status (New, In Progress, Finished)

# Concepts to Consider

* Test Driven Development (TDD)
* Dependency Injection (DI)
* Domain Driven Design (DDD)

# Submitting the Application

* Please send a ZIP file back to us at which should contain the source code.  Please do not include object or bin folders.
* Please include a README file with the application that explains how to compile, configure, and run the application – including how to initialize the DB with SQL scripts if used.
* Once we receive the zip file and unzip, we should be able to open the solution with Visual Studio, compile and run the unit tests.
* For your interview, please be prepared to run the application on your machine and walk us through the application and design decisions you made.