

Assignment Olexandr

Description

Build a REST API using .NET Core that receives data in JSON format and asynchronously stores it in a data storage.

Input

The input is a single JSON record that contains the following data:

```
{
  "number": 1,
  "text": "some text",
  "optional": "optional text",
  "date": "2025-06-13"
}
```

The API should only accept POST requests on a single endpoint. The data should be validated as a number (integer), text, and date, and give an appropriate response upon validation failures.

The field named `optional` is optional.

Queue

When the endpoint is called and data validated, a message with the data should be put on a queue, using MassTransit with RabbitMQ as transport.

Consumer

A MassTransit consumer receives messages and stores them in a data storage.

Data storage

Create a simple entity in a data storage to store the messages as columns of fields (ie, not the raw JSON). You can choose which type of data storage to use.

Docker

Create a Dockerfile (or docker compose file) to run the application. The image should expose the endpoint to receive API calls.

It must be possible to connect to the data storage and read data.