

Assessment for Back-end Dev

Expectations:

Coding (Clean and structured coding, proper naming of classes, props and methods)
Infra/Deployment (Docker, Kubernetes - Dashboard, understanding of YAML)
Principles / Patterns (Generics, Singleton, Factory, abstraction, separation of responsibilities, encapsulation, etc.)
DB (Good understanding of Nosql DB, denormalization principle)
Back-end (.net core)
Message Bus (Minimal understanding)
Front-end (Minimal understanding of an Angular App)

For our assessment, we will be using the following technology stack:

IDE: Visual Studio Code or JetBrains IDE

DB: MongoDB
Back-end: .NET Core 3.2
Frontend: Angular 8+
Messaging: RabbitMQ and EasyNetQ
Hosting: Docker
CRP: Kubernetes

Application requirements:

For DeliVeggie, we need to display two web pages:

1. The product list page, which displays a list of products
2. Product details page which displays the details of a selected product

Tasks:

1. Implement all components of the application (DB, Microservice/Console App, Gateway, Web Application)
2. Create unit tests for the Microservice Application
3. (Bonus Task) Deploy the MongoDB, RabbitMQ, Microservice and Gateway to a local docker container (using Docker Desktop), and display the container in Kubernetes Dashboard. The Gateway port needs to be exposed from the container, so the angular app can connect from outside of the docker environment.
4. Have fun with 1-3!

DeliVeggie Application

