Windows

API Design

Product description

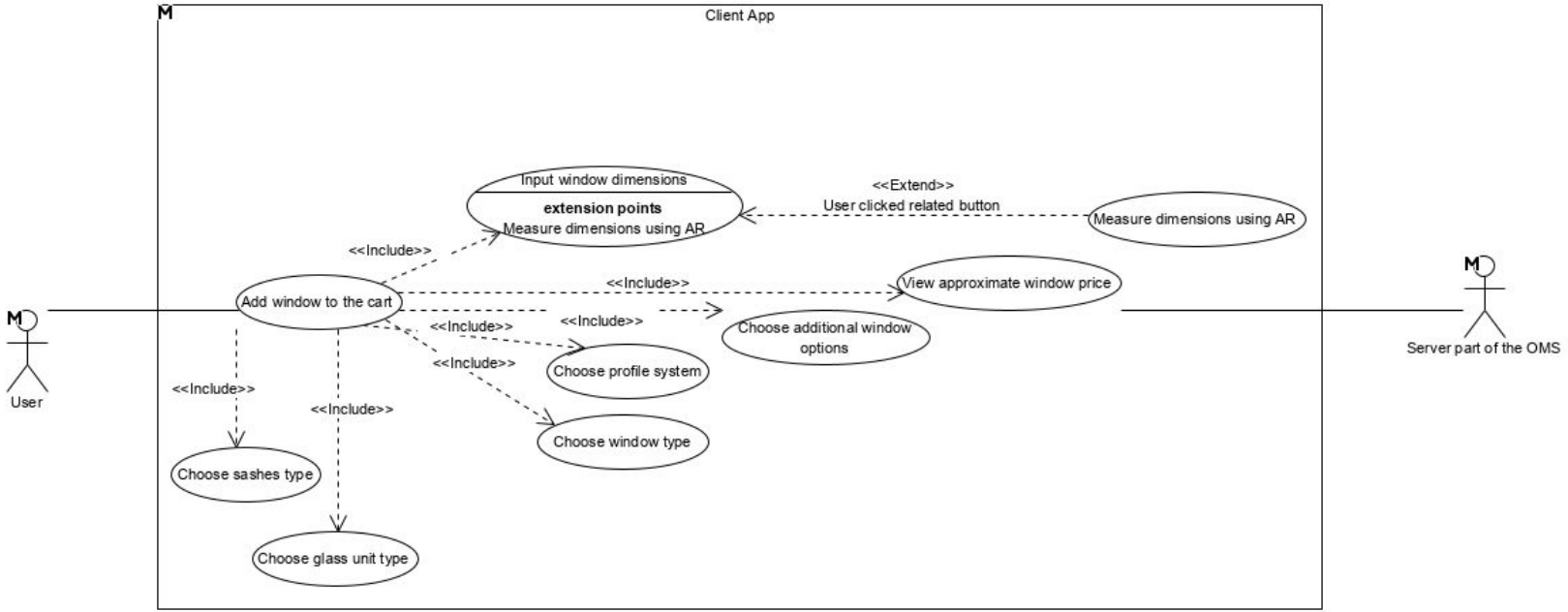
A platform designed to support the operation of a window manufacturing, sales and installation company, namely the process of interaction with the customer, designed to reduce the time and material losses of the company and to increase customer interest in it. The latter is intended to be achieved by including in the AR system technology for measuring the approximate size of windows, which will allow users to calculate the cost of a window before ordering and to select the best option for them.

Team: Alina Kolchanova, Asgar Zagitov, Semen Sokolov

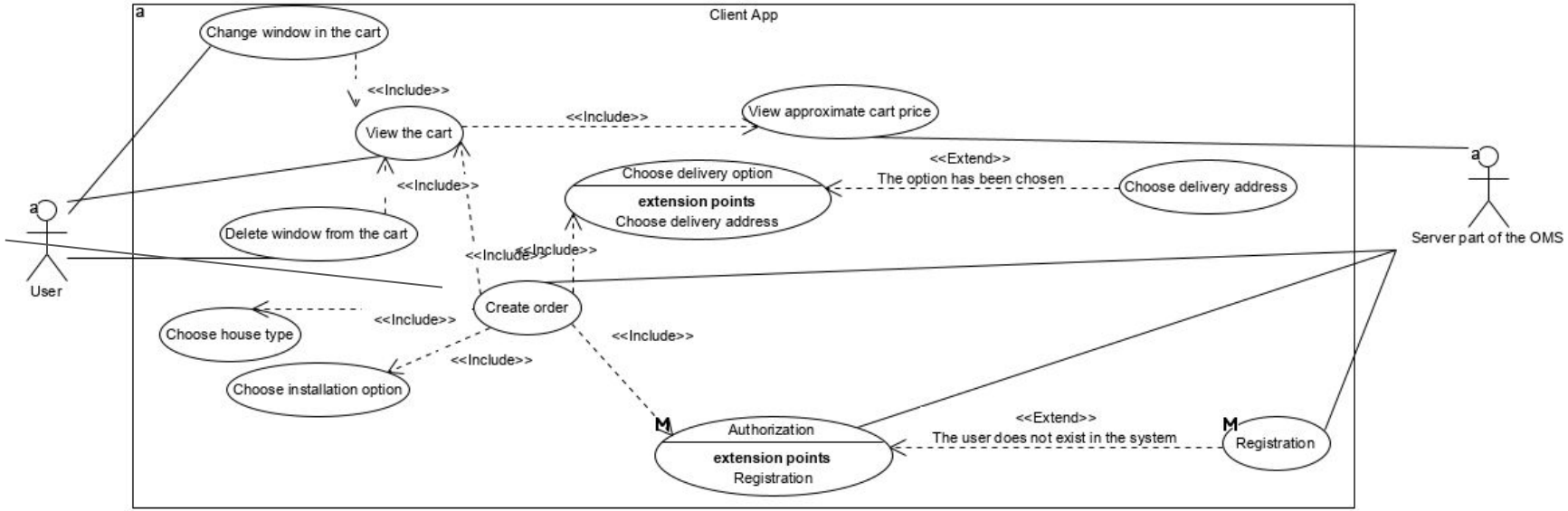
Repo: *https://github.com/sevenzik/asd_project/tree/main/task_9*

Report: *https://github.com/sevenzik/asd_project/tree/main/task_9/report.pdf*

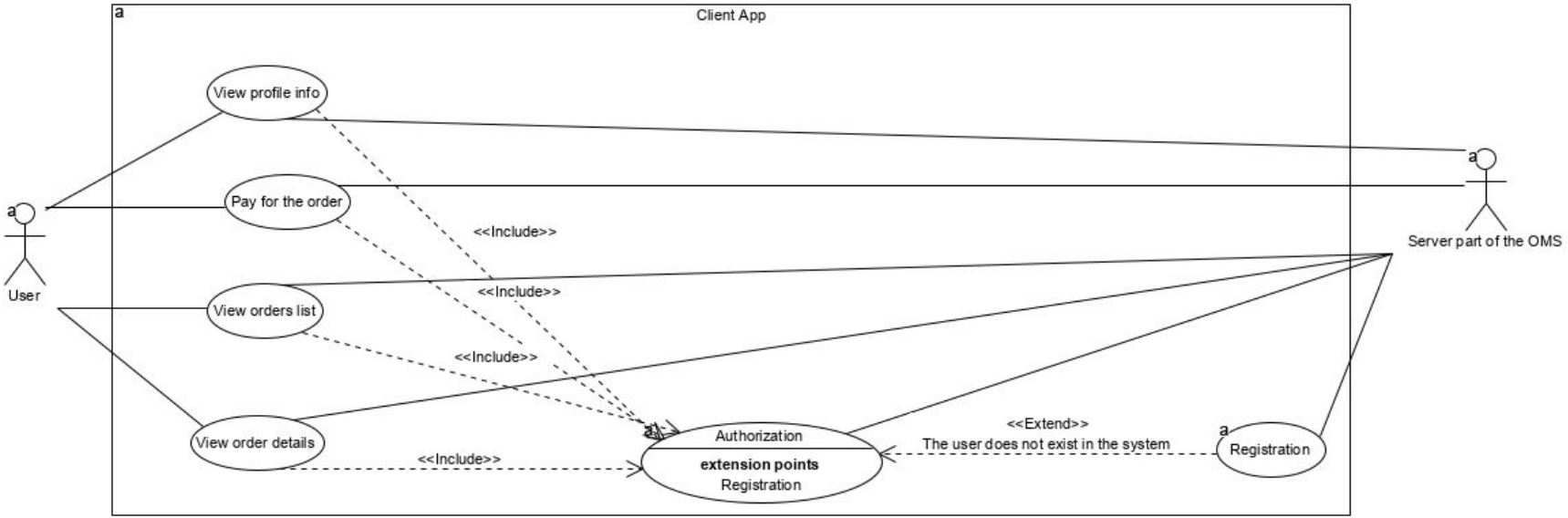
Use case diagram



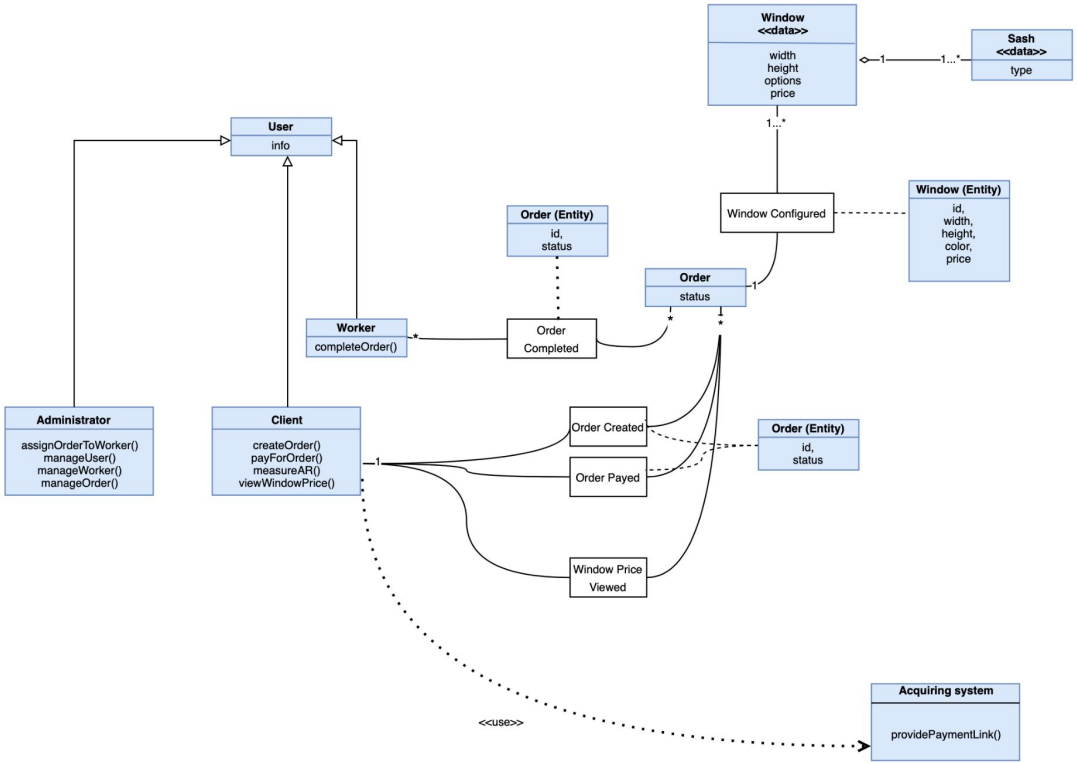
Use case diagram



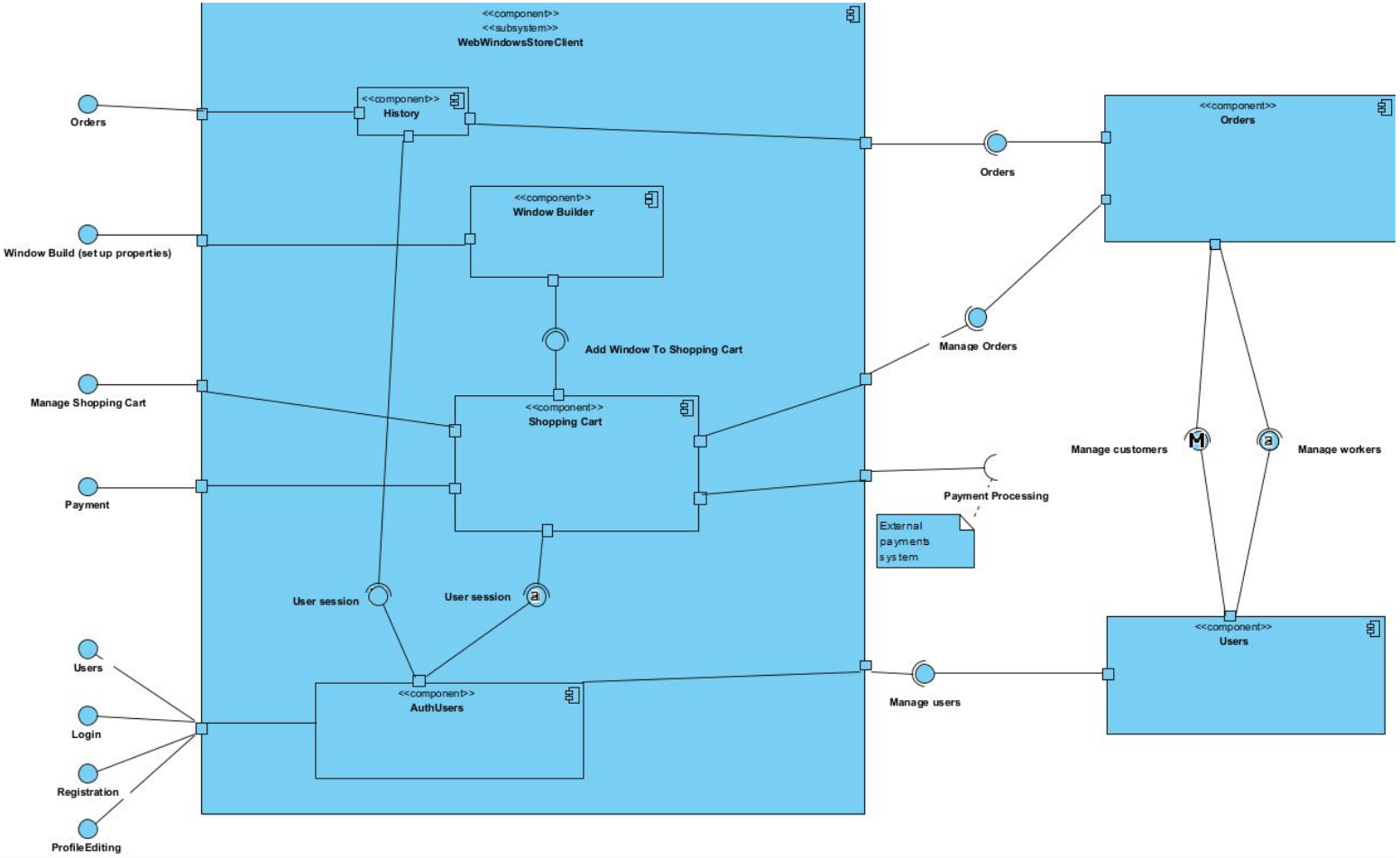
Use case diagram



Detailed class diagram



Service diagram



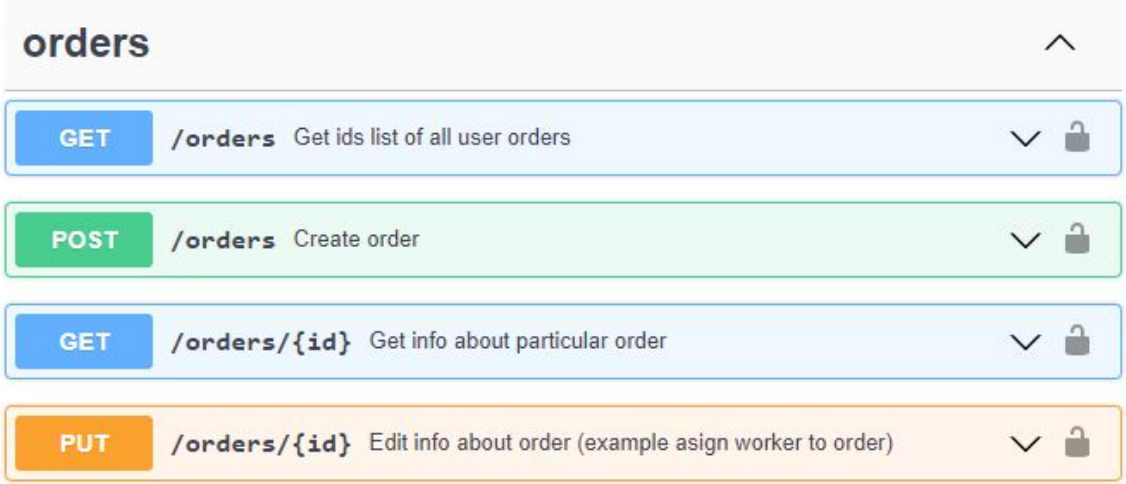
API usage Orders

User stories:

- when the user pays for the basket, the order information is recorded in the system
- when the user views the order history

Service: Orders service

Done by: Asgar Zagitov



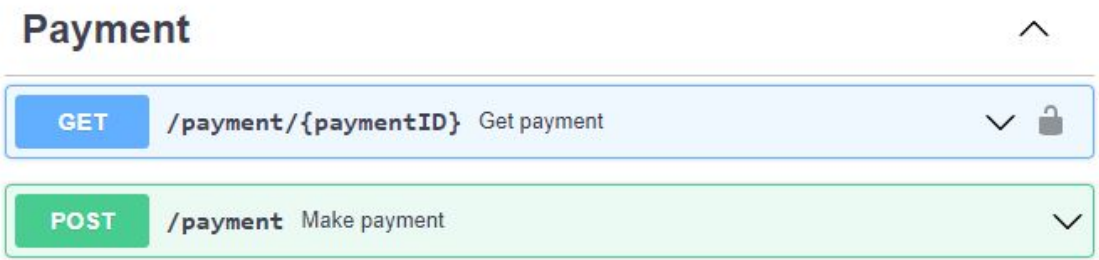
API usage Payment

User stories:

- User or worker checks user’s payment
- User makes payment after creating an order

Service: Payment service

Done by:
Alina Kolchanova



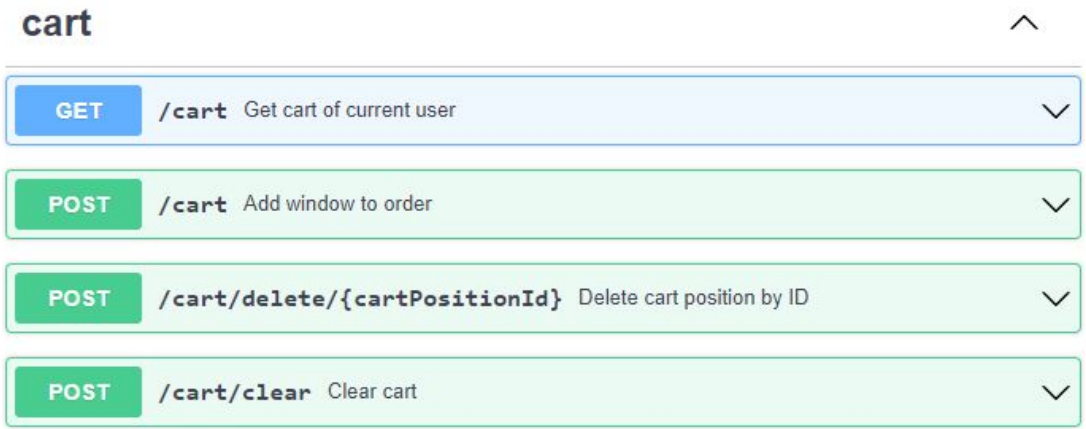
API usage Shopping Cart

User stories:

- Delete window from cart
- Create order form current cart

Service: Cart service

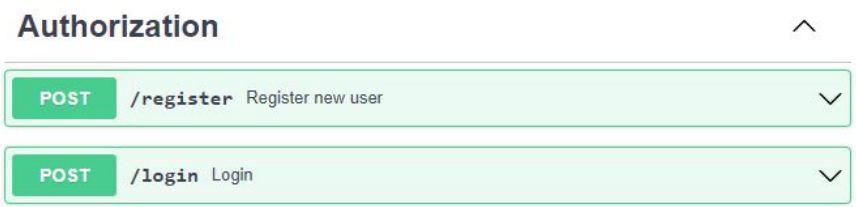
Done by:
Sokolov Semen



API usage Authorization

User stories:

- New user want to create account
- Old user want to do something as logged in user



Service: Auth service

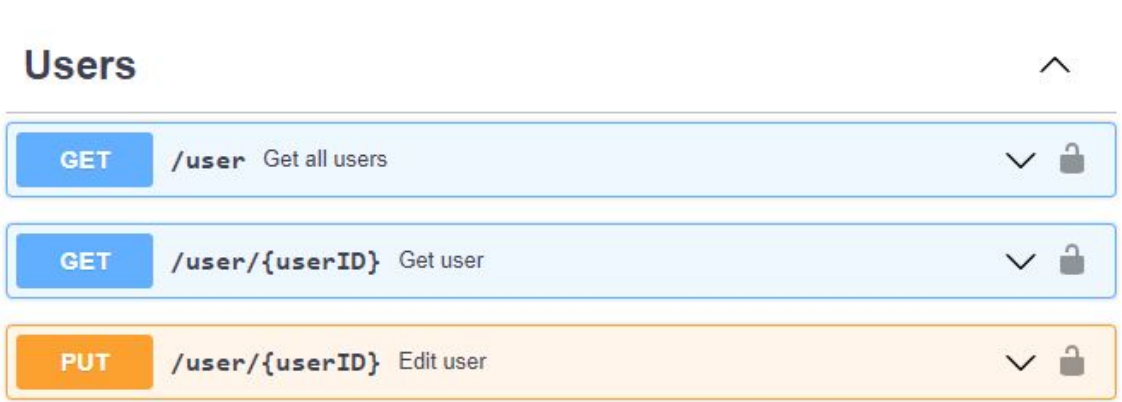
Done by:
Asgar Zagitov

API usage User

User stories:

- User wants to check or change his info
- Owner wants to have some statistics

Service: User service



Done by:
Sokolov Semen

Solution stack (prepare)

Implementation

- API definition : OpenAPI (Feign)
- Connection server for API : Spring Boot Web
- App framework : Spring Framework
- Serialization/state format : json

Testing tools:

JUnit, Mockito

Operations

- Init proj: Spring Initializr
- Build: Gradle
- CI/CD pipeline : Github Actions
- Delivery method : Docker
- Monitoring : Prometheus