

Windows

API Design

Product description

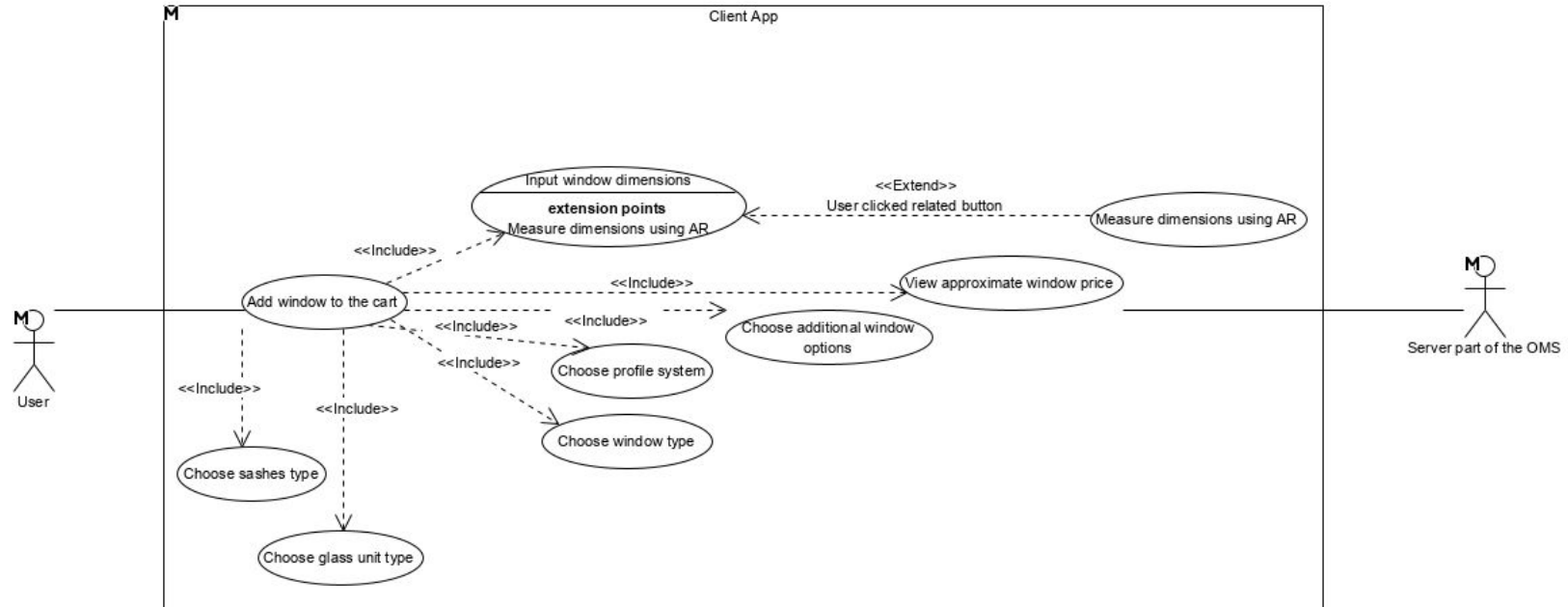
A platform designed to support the operation of a window manufacturing, sales and installation company, namely the process of interaction with the customer, designed to reduce the time and material losses of the company and to increase customer interest in it. The latter is intended to be achieved by 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

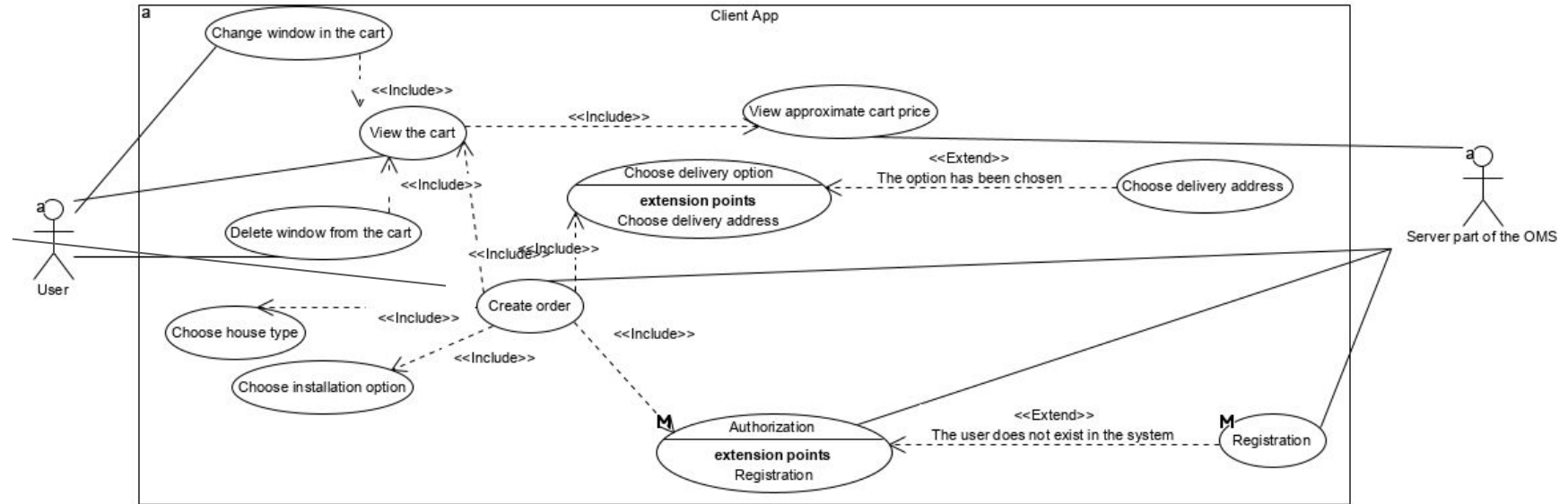
Repo: https://github.com/sevenzik/asd_project/tree/main/task_9

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

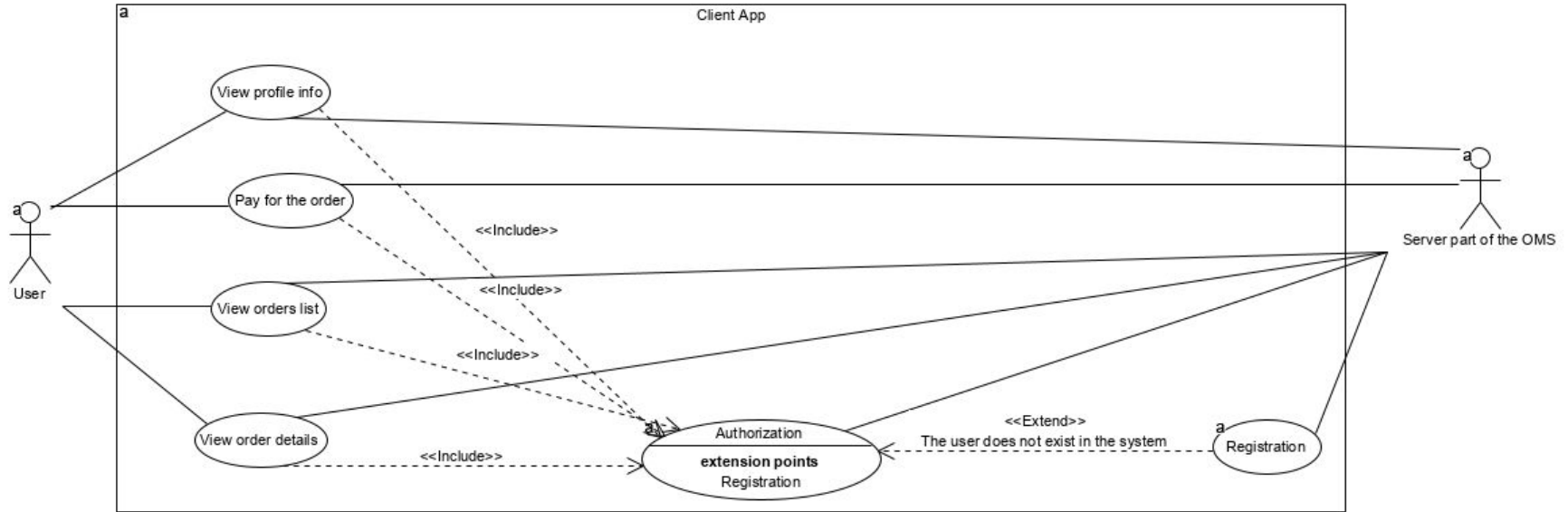
Use case diagram



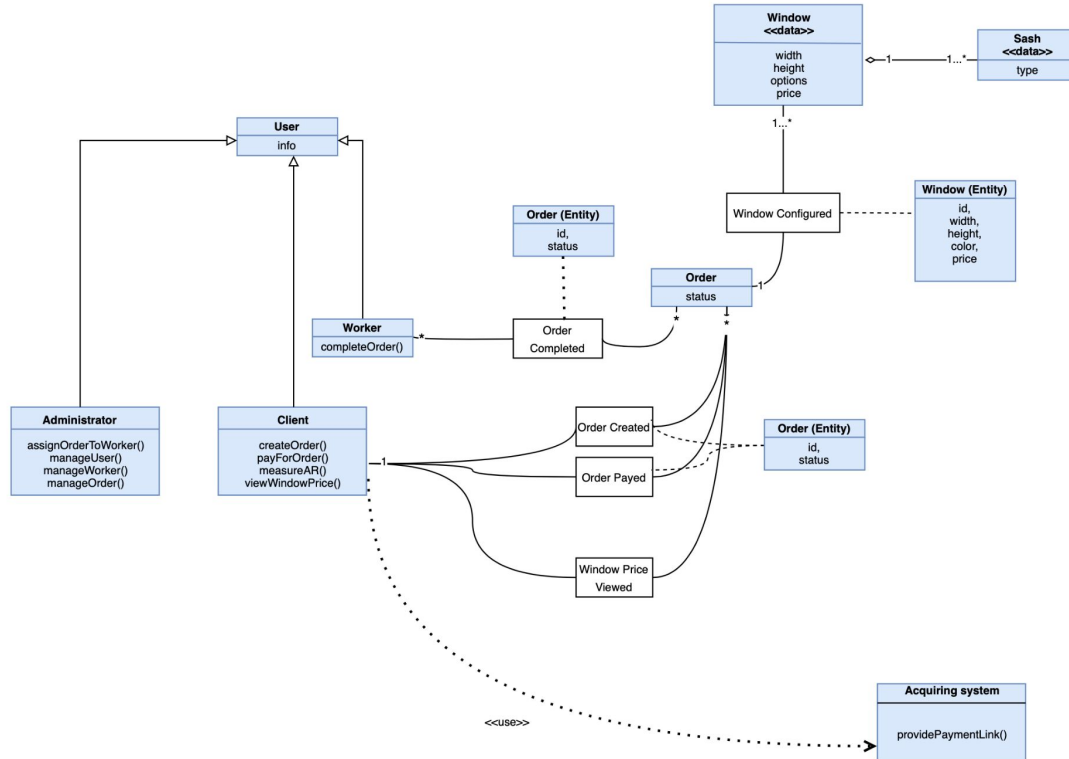
Use case diagram



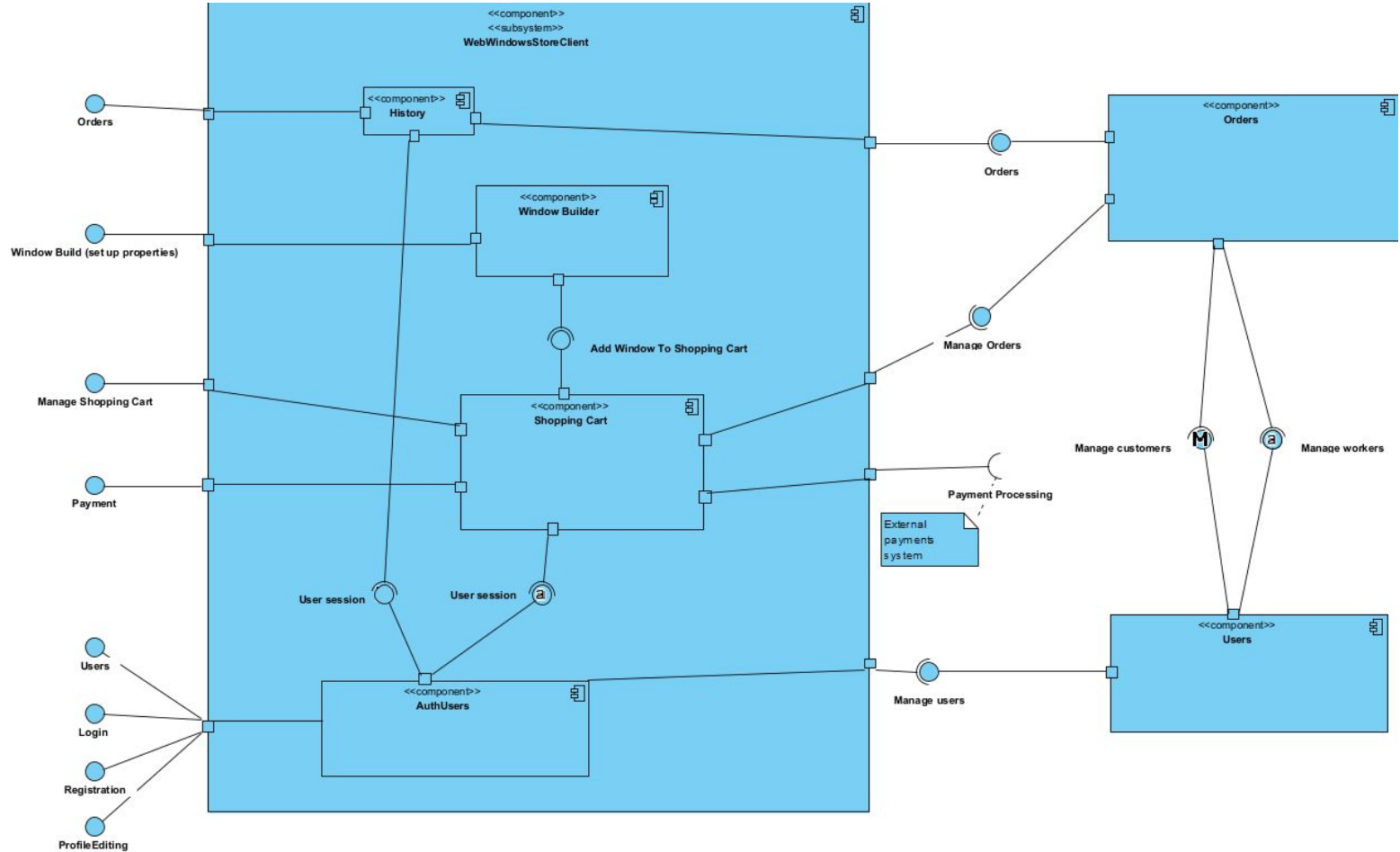
Use case diagram



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

orders			^
GET	/orders	Get ids list of all user orders	✓ 🔒
POST	/orders	Create order	✓ 🔒
GET	/orders/{id}	Get info about particular order	✓ 🔒
PUT	/orders/{id}	Edit info about order (example assign worker to order)	✓ 🔒

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

Payment

GET	/payment/{paymentID}	Get payment	✓	🔒
POST	/payment	Make payment	✓	

API usage Shopping Cart

User stories:

- Delete window from cart
- Create order form current cart

Service: Cart service

Done by:

Sokolov Semen

cart



GET	/cart	Get cart of current user	▼
POST	/cart	Add window to order	▼
POST	/cart/delete/{cartPositionId}	Delete cart position by ID	▼
POST	/cart/clear	Clear cart	▼

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

Authorization



POST

/register Register new user



POST

/login Login



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

Users				
GET	/user	Get all users	✓	🔒
GET	/user/{userID}	Get user	✓	🔒
PUT	/user/{userID}	Edit user	✓	🔒

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