

Cloud Final Project



Contents

Use cases	2
A customer at the frontend can do the following:	
Mandatory	2
Bonus	
Docker environment specification:	3
The following is exposed to internet:	
The following is defined in an internal network:	3
Restrictions on the used technologies:	3
Submission	
Reading material	3

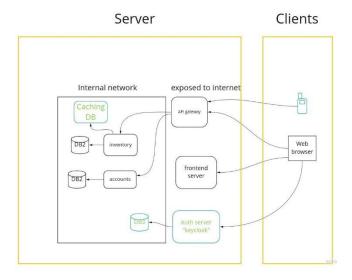


Figure 1 Microservice diagram for the required website

Use cases

- Navigation Bar

- Footer - Home

A customer at the frontend can do the following:

- Register for a new account
 Sign up Page
- Login to an existing account Login Page
- Get his/her account information Profile Page

DONE

- Get a list of all products in the database (with filtering) Categories and ordering by price
- Search for a product
 One Code In Navigation Bar
- Get the details of a certain product Product Page
- Add a product to the cart Cart Page
- Checkout Cart Page

Mandatory

- Frontend server, Done
- API gateway, NOT DONE (LOOOOOOOOOOOSEEEEEER!!!!!!!!!!!!) 30mar samo7aaaa
- Inventory service, DoneAccount service, and Done
- Uploading the projects on Amazon Web Services: Elastic BeanStalk (AWS EB)

Bonus

- Mobile application that covers all the above use cases (Flutter only):
- Cashing databaseAuthentication serverDone
- Al recommendation service

Docker environment specification:

The following is exposed to internet:

- API gateway
- Frontend server Done
- Authentication server Done

The following is defined in an internal network:

- Inventory service
- Accounts service
- Cashing database

You may add any extra services you need.

Restrictions on the used technologies:

• Mobile application: Flutter

• Web application: React

Frontend server: any

API gateway: any

• Authentication server: any

• Service implementation: Node.js, Python, PHP, Java, Golang, Dart

Database allowed: MongoDB, NoSQL DB, MySQL, PostgreSQL, MariaDB

• Al recommendation service: any

• Caching database: any

Submission

Provide a public GitHub repository that contains everything: the used images (*Dockerfiles*), *dockercomposed-yaml* file, any source codes, and the link to your website.

Reading material

https://www.nginx.com/blog/building-microservices-using-an-api-gateway/