Technologies used:

- ReactJS
- jQuery
- Java
- JDBC
- Java Servlets
- Spring & Spring Boot
- Hibernate
- JPA

- JavaScript
- SQL
- jUnit

Project Overview:

Design and develop an e-commerce application with following criteria:

- ReactJS as front-end
- Implement components, pages, providers, services, utils
- Use axios for API calls.
- Backend developed using microservice architecture using Java, Spring Boot, Hibernate JPA, MySQL, MongoDB.
- Testing for application using jUnit

Project Structure:

中の打打

Front-end

> node modules

favicon.ico

index html

> 6 components

{ } manifest.json robots.txt

✓ ECOM-FRONTEND

∨ 📹 src

> 💼 icons

> to pages

> providers

> services

App.css

App.test.is

index.css

JS index.js

gitignore
package-lock.json
package.json
README.md

JS reportWebVitals.js

JS setupTests.is

JS App.js

> 🐙 utils

> 📻 images

User Microservice

✓ □ com.ecom.user

✓ □ controller

✓ ■ encryption

✓ D exception

✓ □ repository

✓ Image: Yesponse

G UserApplication

✓ Image: Service

> resources

Scratches and Consoles

> lest

aitignore.

■ mvnw

∨ D dto

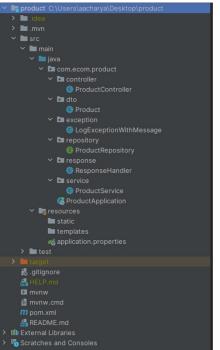
> idea

> mvn

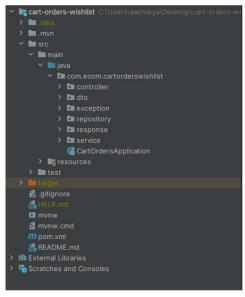
✓ ■ main

∨ **src**

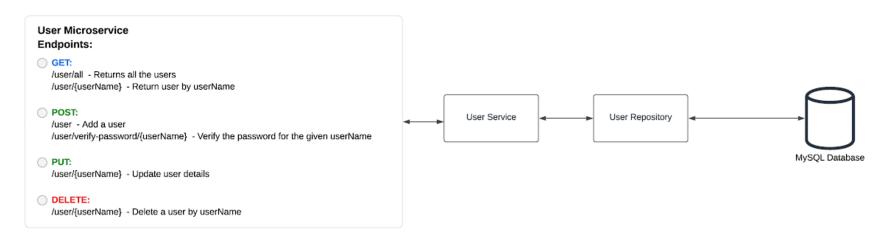
Product Microservice



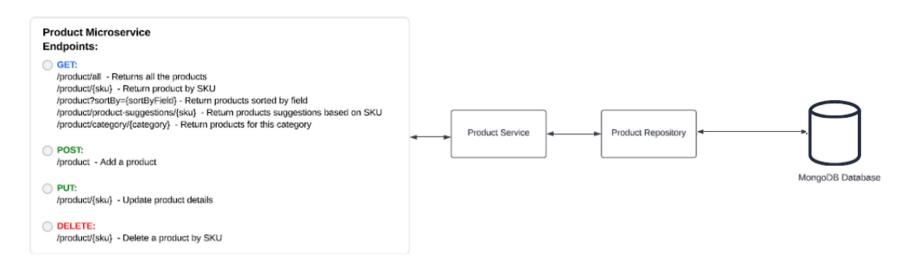
Cart-order-wishlist Microservice



User microservice

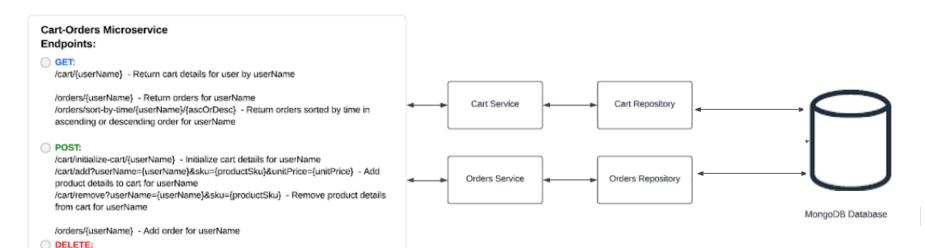


Product microservice

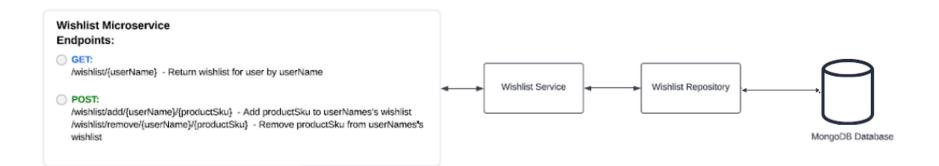


/cart/place-order/{userName} - Place order and empty cart for userName

Cart-orders microservice



Wishlist microservice



Features of E-commerce Application (Watch World):

Admin:

- Can view all products, edit product or delete product
- Can view all users or delete any user
- Can view all subscriptions for newsletter as well as remove a subscription

User:

- Can create profile to browse, wishlist or order products
- Update profile details as well as password

Future Scope:

In future following features can be implemented:

- User authentication security can be improved using tokens to be stored in front-end as well as backend
- The application can be deployed to cloud
- The front-end components can be divided more into smaller levels

Conclusion:

As part of the team, I worked on Jira tickets during sprints which covered both frontend as well as backend aspects of web development.

- Worked on writing JUnit test cases to cover classes at service and controller layers. Increased the coverage to 95% method coverage and 80% method coverage respectively
- Worked on HTTP status code and Not Found page to be returned for not available resources.
- Worked on frontend analysis for app pages.

The technologies and tech stack I worked with included Java, Spring Boot, JUnit test cases, ReactJs, Restful APIs, etc.

References:

<u>Fastenal</u>

React – A JavaScript library for building user interfaces (reactjs.org)

Spring | Home

Spring Data JPA

Hibernate Example using JPA and MySQL – GeeksforGeeks

<u>Log4j2 with XML Configuration - Java Example - Studytonight</u>

Stack Overflow - Where Developers Learn, Share, & Build Careers

<u>Java Tutorial | Learn Java Programming – javatpoint</u>

https://youtu.be/w7ejDZ8SWv8

https://youtu.be/OuBUUkQfBYM

https://youtu.be/35EQXmHKZY

Thank you!