Online Shopping Case-Study:

Abstract: Application will have React web-based user interface which shall provide following features:

- Registration Form for new customer with proper validations and error in case any

- Login screen for Customers

- Display information about products

- Customer roles and responsibility

- can see list of products

- can add product to the cart

- can see list of products in his/her cart

- can remove product from the cart

- Save the project in Git, use Docker and Kubernetes too and deploy the same on AWS too

Modules:

- Product Module

- Customer Module

- Shopping Cart Module

- Redirection to third party applications if required

Technical specification:

- Front-end to be developed using latest version of React.js with proper validation error messages

- Multiple Front-end components to show all backend database activities.

- Backend to be developed using Spring Boot, Data JPA or Hibernate

- There must be at least 2 different micro-services

- Product-Service [MySQL]

- Customer-Service [MySQL]

- Shopping-Service [MySQL]

- Proper usage of exception handling wherever required

- Communication will be done through JSON between React/SpringBoot/MySQL

- Usage of Spring Form Tag Library

- Postman for verification of all messages

Technology Stack:

- Java

- Spring Boot

- Spring JPA/REST/Exception Handling

- Hibernate for Validations

- TypeScript

- React

- MySQL

- PostMan

- Deployment and Build Creation using Git/Docker/Kubernetes/Jenkins/AWS