PROJECT – ONLINE FASHION

Post Graduate Diploma in Advanced Computing (PG-eDAC)

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Working of Project

1. **Home**

* Home contains some slideshow of our product or the different category of product we have in our store. After that in the home page we’ve cards for some product which have discounts or which are on the deals of the day displaying all the information(like product name, price, description, etc.)
* Along with name and logo, navigation bar also contains badge with displays the categories which we’ve and by clicking on it user will be directed to the categories they want to visit.

**2. Cart**

* When it comes to the cart here it shows the products user has added to purchase from product page, along with that information user also has the option to increase or decrease the quantity of every product in the cart and by clicking the ‘ok’ button the product details are added to cart database

1. **SignIn/SignUp**

* For registering and authentication of user using database.

**4. Checkout**

* In the checkout page we’ve address form which adds the user details like name, address, city, state.
* This page also contains the payment gateway which takes the data for our payment card like credit card, debit card its expiry month & year. Further on confirming order all the data are saved in the cart2 database.

**WORKING OF CART**

**STARTING FROM PRESENTATION**

1. After the login, we can add products from different categories into the cart where the details of products are mentioned.
2. User can enter the quantity of product.
3. After clicking ok button all the data will be saved on database.

**HOW IT REACHES SERVICE LAYER**

1. For every modification above, axios requests are made to the service layer through api for which it modifies the changes and responses with updated details of cart.

2. For all this to happen service layer functions are provided with *product id and its quantity* which has to be provided with the request.

3. Spring boot application which is running on port 3344 will listen to this request through the Rest controller which will call the specific service layer function with the particular request key.

4. Service function will make the required changes to database and then return updated data to the controller, which will send a response message object to the axios request as JSON string which will contain all the required updated data .

**HOW IT REACHES DAO LAYER**

1. Service class uses the interface for queries provided by JPA repository classes.

2. We have model classes for these queries named accordingly where we have mapped the class according to database.

3. A query is made to update the cart table in database which takes product id and quantity as input.

4. On the success of first query second query is made to return the selected data from product and cart table from the database corresponding to the product ids present in the cart table.

**STRUGLING POINTS**

1. One of the biggest challenges faced during the development of this software project was implementing Spring Security and JWT for the application.

2. A lot of time were invested in learning and implementing Spring Security and JWT as it contains many sub-contents like

* filters chain
* password-encoding schema
* configuration
* JWT token filter.

3. This actually affected the flow of the application and to adapt these changes some new components were also created and added to the project for convenience.

Although all the requirements set out for the online fashion web application have been met, there are still areas to improve on.

Also, other online payment methods like online bank transfers, mobile payment can be implemented for the application.

**LEARNINGS FROM PROJECT :**

1. Spring , Spring Boot , Hibernate, Spring Security JWT

2. How dependency injection works in spring

3. Usage of Annotations in SpringBoot

4. Angular architecture

5. Service Injection in Components in Angular Project.

6. Using HTML 5 , components files for designing the Application

7. Using Postman App for Integration Testing with http Api.

8. Creating and Using Database MySQL.