WIPRO NGA Program – EP_JAVAFULLSTACK

BATCH CODE :- 24NAG0970

Capstone Project Presentation – 11 - July - 2024

Project Title Here - E COMMERCE

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ABOUT :-

- E-commerce, or electronic commerce, refers to buying and selling goods or services over the internet. It involves online transactions between businesses and consumers through websites or mobile apps. Examples include online
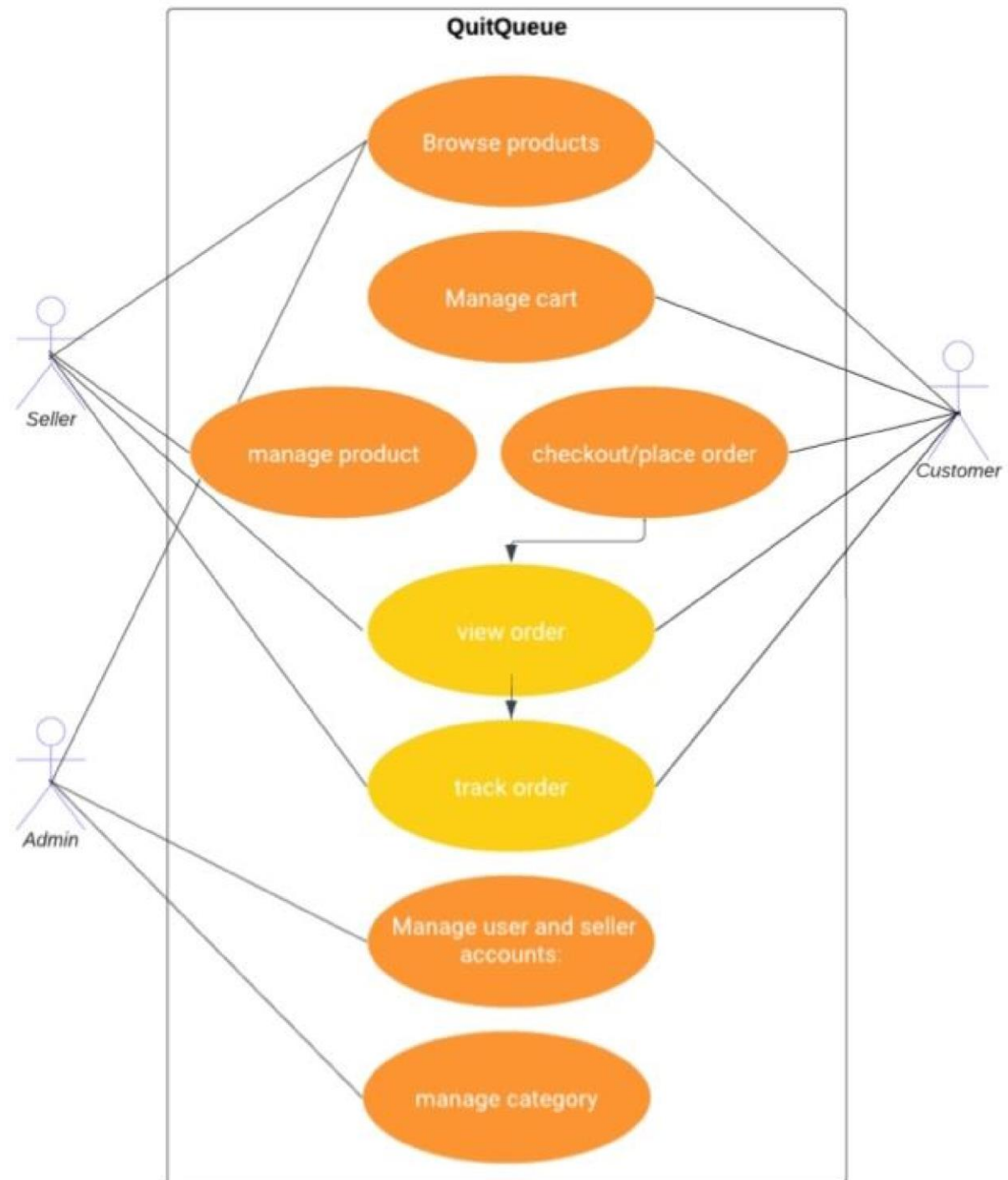
shopping sites like Amazon, eBay, and small business websites that offer products or services for sale.

USED TECHNOLOGIES IN THIS PROJECT

1) FRONTEND: ANGULAR

2) BACKEND: JAVA, SPRING BOOT FOR API DEVELOPMENT.

3) DATABASE: MYSQL

4) AUTHENTICATION: JSON WEB TOKENS (JWT) FOR SECURE USER AUTHENTICATION.

DEVELOPMENT PROCESS TO THIS PROJECT

Admin Module:

The Admin module serves as the backbone of the ecommerce platform, granting administrators extensive control over all operations. Administrators can manage product listings, oversee transactions, and monitor user activities. They ensure the platform's integrity by handling the overall functionality of Ecommerce.

User and seller Registration:

- User and seller can create accounts, providing personal details (name, gender, contact number, address, etc.)

- The system validates the information and creates user profiles.

- Users and sellers log in using their credentials (username/email and password).

- **User's Dashboard:**

- Users can browse products, view detailed descriptions, images, and prices.

- Users navigate through product categories (such as Electronics, Fashion, Mobile, Home & Furniture) or search for specific items.

- Include filters for brands, and price ranges.

- Implement a search feature with auto-suggestions and predictive text.

- Clicking on product from listing product to view more information about a product. Product details, images, pricing, and seller name are displayed.

- Users can add products to their shopping carts for purchase.

- Users click an "Add to Cart" button on the product page.

- The selected product is added to their shopping cart.

SELLER DASHBOARD:

* Seller can create new product listings, edit existing ones, and mark products as out of stock. * seller can add product with following details (category name, product name, price, stock number) * sellers access their order management dashboard.

* They can view the status of orders, including processing and shipping updates.

* The seller can view history of orders of their product.

Administrators dashboard

Administrators can manage(delete) user accounts and seller accounts.

Admins can add, modify, or remove product categories.

Security and compliance:

User authentication and authorization are enforced to ensure data privacy.

JWT AUTHENTICATION:

- **JWT Authentication:**

- JWT authentication involves generating a token upon successful user login and sending it to the client. The client includes this token in subsequent requests to authenticate the user.

- User Login: Upon successful login (using valid credentials), generate a JWT token on the server.

- Token Payload: The token typically contains user-related information (e.g., user ID, roles, expiration time).

- Token Signing: Sign the token using a secret key known only to the server. This ensures that the token hasn't been tampered with.

- Token Transmission: Send the signed token back to the client as a response to the login request.

- Client Storage: Store the token securely on the client side (e.g., in browser storage or cookies).

- **JWT Authorization:**

- JWT authorization involves checking the token on protected routes to ensure that the user has the required permissions.

- Protected Routes: Define routes that require authentication and authorization.

- Token Verification:

- Extract the token from the request header.

- Verify the token's signature using the server's secret key.

- Payload Verification:

- Decode the token and extract user information.

- Check user roles or permissions to determine access rights.

- Access Control: Grant or deny access based on the user's roles and permissions.

LOGOUT:

Logging out involves invalidating the jwt token on both the client and the server to prevent further unauthorized requests.

Log In

Username

password

Login

Don't have an account? Sign Up

Customer Registration Form

Enter Name

Gender

Contact Number

Email

Username

Password

Role

Address

Address Line 1

Postal Code

City

Select City

State

Select State

Country

Select your country

Submit

Are you a seller?Register

THANK YOU 😊