

Software Project II requirements

1- Login

1. Access Login Page:

As a user, I want to access the login page:

- Acceptance Criteria:
 - When I navigate to the app, I should see a clearly labeled "Login" option in the navigation menu.
 - Clicking on the "Login" option should direct me to the login page where I can enter my credentials.

2. Login as Authenticated User:

As a user, I want to login as an authenticated user:

- Acceptance Criteria:
 - On the login page, I should see input fields for entering my email/username and password.
 - After entering valid credentials and clicking "Login," I should be authenticated and redirected to the homepage.
 - If my credentials are invalid, I should see an error message indicating the issue.

3. Redirect to Register Page:

As a user, I want the option to get redirected to the register page:

- Acceptance Criteria:
 - If I am not logged in and try to access a protected page, I should be automatically redirected to the login page.
 - On the login page, there should be a clear option or link to "Register" for new users.
 - Clicking on "Register" should redirect me to the registration page.

4. Reset Password:

As a user, I want to reset my password:

- Acceptance Criteria:
 - On the login page, there should be a "Forgot Password?" link.

- Clicking on this link should take me to a password reset page where I can enter my email.
- After submitting my email, I should receive an email with a password reset link.
- Clicking the reset link should allow me to set a new password for my account.

2- Register

Register Using Personal Information:

As a user, I want to register using my personal information:

- Acceptance Criteria:
 - On the registration page, I should see fields to enter my First Name, Last Name, Email, Phone Number, Company (optional), and Address.
 - All fields should be clearly labeled and have proper validation checks.
 - After entering valid information and clicking "Register," I should receive a verification email to complete the registration process.

2. Receive Verification Email:

As a user, I want to receive a verification email for registration:

- Acceptance Criteria:
 - After submitting my registration information, I should receive an email to verify my email address.
 - The email should contain a verification link that, when clicked, confirms my registration and activates my account.
 - If I do not receive the email, there should be an option to resend the verification email on the registration page.

3- Home

As a Guest User:

View Featured Listings:

- As a guest, I want to see featured listings on the homepage so that I can quickly browse popular products.
- Acceptance Criteria:
 - Featured listings are displayed prominently.
 - Each listing includes a product image, name, price, and rating.

Explore Categories:

- As a guest, I want to easily navigate through different product categories.
- As a guest, I can search for a specific product using a search bar
- Acceptance Criteria:
 - Categories are displayed clearly on the homepage.
 - Clicking on a category takes me to a page with relevant products.

View Top Offers:

- As a guest, I want to see current offers and discounts to find good deals.
- Acceptance Criteria:
 - A section dedicated to top offers is visible on the homepage.
 - Each offer includes a product image, discount percentage, and validity period.

As a Registered User:

Do all of the guest user features + the following:

Sign In / Sign Up:

- As a registered user, I want the option to sign in or sign up directly from the homepage.
- Acceptance Criteria:
 - Clear options to sign in or sign up are available.
 - Sign-in form includes fields for email/username and password.

Quick Access to Cart and Wishlist:

- As a registered user, I want easy access to my shopping cart and wishlist.
- Acceptance Criteria:
 - Icons or links for cart and wishlist are visible at the top of the homepage.
 - Clicking on these icons takes me directly to my cart or wishlist page.

Save Favorite Items:

- As a registered user, I want to be able to save items to my favorites for quick access later.

- Acceptance Criteria:
 - A "Add to Favorites" button is available on each product listing.
 - Saved items appear in my account's "Favorites" section

4- Profile:

As a Registered User:

View Profile Information:

- As a registered user, I want to view and edit my profile information.
- Acceptance Criteria:
 - Profile page displays my name, email, shipping address, and contact information.
 - Option to edit and update profile details is available.

View Order History:

- As a registered user, I want to see a history of my past orders.
- Acceptance Criteria:
 - A section on the profile page lists all previous orders.
 - Each order includes details such as order number, date, items purchased, total amount, and status.

Manage Payment Methods:

- As a registered user, I want to add, remove, or edit my payment methods.
- Acceptance Criteria:
 - Payment methods like credit/debit cards, PayPal, etc., are displayed.
 - Options to add new cards or remove existing ones are available.

Update Password:

- As a registered user, I want to be able to change my account password.
- Acceptance Criteria:
 - A section on the profile page allows me to change my password.
 - Password change process includes verification steps for security. (Could be by just entering the old password)

View Saved Addresses:

- As a registered user, I want to view and manage my saved shipping addresses.
- Acceptance Criteria:
 - Saved addresses are displayed with labels (e.g., Home, Work, etc.).

- Option to add new addresses and delete existing ones is available.

View and Manage Wishlist:

- As a registered user, I want to view and manage the products in my wishlist.
- Acceptance Criteria:
 - Wishlist items are displayed with product details and images.
 - Options to add items to cart from wishlist and remove items are available.

View and Manage Reviews:

- As a registered user, I want to see and manage the reviews I've submitted for products.
- Acceptance Criteria:
 - A section on the profile page lists my submitted reviews.
 - Option to edit or delete reviews is available for each entry.

5- Cart

As a Registered User:

View Cart Items:

- As a registered user, I want to view all the items I've added to my cart.
- Acceptance Criteria:
 - Cart page displays a list of products with images, names, prices, quantities, and total prices for each item.
 - Subtotal of all items in the cart is visible.

Update Quantity of Items:

- As a registered user, I want to be able to update the quantity of items in my cart.
- Acceptance Criteria:
 - Each item in the cart has an input field or buttons to increase/decrease the quantity.
 - Updated quantities immediately reflect the new total price for that item.

Remove Items from Cart:

- As a registered user, I want the option to remove items from my cart.
- Acceptance Criteria:
 - Each item in the cart has a "Remove" button or icon.

- Clicking "Remove" removes the item from the cart and updates the subtotal.

Apply Coupon Codes:

- As a registered user, I want the ability to apply coupon codes to avail discounts.
- Acceptance Criteria:
 - Cart page includes a field to enter coupon codes.
 - Applying a valid coupon updates the total amount reflecting the discount.

Proceed to Checkout:

- As a registered user, I want a clear and easy option to proceed to checkout.
- Acceptance Criteria:
 - A prominent "Checkout" button is visible on the cart page.
 - Clicking "Checkout" takes me to the checkout process with my cart items retained.

Confirm and Place Order:

- As a customer, I want a clear and secure "Place Order" button to complete my purchase.
- Acceptance Criteria:
 - A prominent "Place Order" or "Complete Purchase" button is visible on the checkout page.
 - Clicking the button submits the order, processes payment, and provides a confirmation.

As a Guest User:

Add Items to Cart:

- As a guest user, I want to add items to my cart for later purchase.
- Acceptance Criteria:
 - Each product listing includes an "Add to Cart" button.
 - Clicking "Add to Cart" adds the item to the cart without requiring login.

View and Edit Cart:

- As a guest user, I want the option to view and edit the items in my cart during my session.
- Acceptance Criteria:

- A temporary cart is created for the guest session.
- Guest users can view, update quantities, and remove items from their temporary cart.

Convert to Registered User:

- As a guest user with items in the cart, I want the option to easily convert to a registered user.
- Acceptance Criteria:
 - A "Create Account" or "Sign Up" option is provided on the cart page.
 - Guest users can create an account and merge the guest cart with the new account.

6- Product

As a Customer:

View Product Details:

- As a customer, I want to view detailed information about the product.
- Acceptance Criteria:
 - Product page displays product name, description, images, price, availability, and specifications.
 - Additional sections for reviews, ratings, and related products are included.

Add to Cart:

- As a customer, I want the option to add the product to my cart for purchase.
- Acceptance Criteria:
 - An "Add to Cart" button is prominently displayed on the product page.
 - Clicking "Add to Cart" adds the product to my cart with default options (such as size or color).

Rent Product:

- As a customer, I want the option to rent the product instead of purchasing it.
- Acceptance Criteria:
 - A "Rent" button is available alongside the "Add to Cart" button.
 - Clicking "Rent" opens a modal or page with rental duration options and pricing.

- Selecting a rental option adds the product to the cart with the chosen rental period.

Customize Product:

- As a customer, I want the ability to customize certain aspects of the product.
- Acceptance Criteria:
 - Products that are customizable display options such as size, color, material, etc.
 - Dropdown menus, color swatches, or input fields allow me to select customization preferences.
 - Price adjusts dynamically based on selected customization options.

View and Add Reviews:

- As a customer, I want to read reviews of the product and add my own review.
- Acceptance Criteria:
 - A section on the product page displays existing reviews and ratings.
 - Option to add a review with a rating and comments is available.

Save for Later:

- As a customer, I want to save the product to a wishlist for future reference.
- Acceptance Criteria:
 - A "Save for Later" or "Add to Wishlist" button is present on the product page.
 - Clicking the button adds the product to my wishlist for easy access later.

Share Product:

- As a customer, I want to share the product with friends or on social media.

Restrictions:

1. The frontend should be implemented using NextJS
2. The backend should be implemented using NestJS
3. The backend should follow the typical NestJS structure
4. For the project architecture the project should imply the microservice architecture

5. Communication between services should be handled using Kafka
6. The data should be stored in a database preferably MongoDB (if you have any other ideas please reach out to get your approval)

Bonus:

1. An ERP simple system should be implemented and accessed to check for supply order management etc.
2. The communication with the system should be handled by Kafka
3. Your application should be Dockerized (Can be ran through the container)
4. Your application should look professional