

E-Commerce Platform Frontend Development Using FakeStore API

Assignment Description:

The goal of this assignment is to create a functional and user-friendly e-commerce platform that supports features such as product listing, filtration, cart management, and wishlist functionality using the [FakeStore API](#). The application should distinguish between guest and authenticated users, offering tailored functionalities to each type of user.

This assignment evaluates your understanding of React (or any modern frontend framework), API integration, state management, component design, and routing, as well as your ability to build responsive and interactive UI components.

Requirements:

Functional Features:

1. **Product Viewing:**
 - Fetch and display all products from the FakeStore API.
 - Enable users to view detailed information about a single product fetched from the API.
 - List all the products with pagination.
2. **Filtering and Sorting:**
 - Allow users to filter products based on categories (`/products/categories` endpoint).
 - Implement sorting options (e.g., by price or rating).
3. **Cart Management:**
 - Enable adding/removing products to/from the cart.
 - Guest users may be allowed to add to the cart (optional).
 - Restrict the checkout functionality to authenticated users.
4. **Wishlist Functionality:**
 - Allow authenticated users to add/remove products to/from their wishlist.
5. **User Differentiation:**
 - **Guest Users:** Limited functionalities (e.g., no checkout or wishlist).
 - **Authenticated Users:** Full functionalities.

API Usage:

- Fetch data for products, categories, and other details from the FakeStore API.
- Use endpoints such as:
 - `GET /products` for listing all products.

- GET `/products/:id` for single product details.
- GET `/products/categories` for categories.

Routes to Implement:

1. **Public Routes:**
 - All Products (`/products`)
 - Single Product (`/products/:id`)
2. **Private Routes (For Authenticated Users Only):**
 - Cart (`/cart`)
 - Wishlist (`/wishlist`)

Design Considerations:

- Responsive UI for desktop and mobile.
- A clear distinction between functionalities available to guests and authenticated users.
- Seamless navigation with intuitive UI/UX.

Technology Stack:

- React (or equivalent like Next.js)
 - State management (e.g., Context API, Redux).
 - Routing (e.g., React Router).
 - Styling (CSS/SCSS, Tailwind, or any framework you choose).
 - Integration with the FakeStore API for data fetching.
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Evaluation Criteria:

1. **Functionality Implementation (40%):**
 - Correct implementation of features based on the requirements (e.g., filtering, cart, wishlist, user differentiation).
 - Effective integration with the FakeStore API.
2. **Code Quality (30%):**
 - Modular and reusable components.
 - Clean, readable, and maintainable code.
3. **UI/UX Design (20%):**
 - Responsive and visually appealing interface.
 - Smooth navigation and user experience.
4. **Optional Enhancements (10%):**
 - Implementation of additional features such as toast notifications, loading states, or error handling.
 - Use of animations or transitions to enhance the user experience.

Submission Guidelines:

- Deploy the application (using Netlify, Vercel, or any hosting platform) and share the live URL.
- Provide a link to the GitHub repository containing your code. Ensure your repository includes a well-structured [README.md](#).
- Provide GitHub access to only the company's id provided: **Authenticate9** and keep repo private.
- Include instructions on how to set up the application locally.
- Your [README.md](#) should also detail the API endpoints used and any notable implementation choices.

Wireframe References:

- These wireframes are for reference only, please feel free to implement your creative design and inspiration, although the structure should match the wireframe.

Product Viewing and Filtering

Home

Cart

Wishlist

Login

E-commerce

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua.

Filters

Clear filters

Showing 1003 Products

Categories

☐ Itar

☐ Kafan

☐ Caps

☐ Food

Sort By

Asc

Prices

Ranger: \$13.99 - \$25.99

Natural Honey Bottle

\$99

Itar

\$99

White Cap

\$99

Jae Namaz

\$99

Dates

\$99

Miswak

\$99

Prev

1

2

3

4

5

Next

Single Product View

Home

Cart

Wishlist

Login

Natural Honey Bottle

\$99

>Lorem ipsum dolor sit amet, consectetur
adipiscing elit, sed do eiusmod tempor
incididunt ut labore et dolore magna
aliqua.

by Vendor Name

Size

S

M

L

Add to Cart - \$188

Quantity

-

1

+

Free standard shipping

[Free Returns](#)

Add to cart


Home

Cart

Wishlist

Your cart

Not ready to checkout? [Continue Shopping](#)



Natural Honey Bottle


Size: L

Quantity: 1

\$99

by Vendor Name

[Remove](#)



Natural Honey Bottle

Size: S

Quantity: 1

\$89

by Vendor Name

[Remove](#)

Order Summary

Subtotal	\$188
Shipping	Calculated at the next step
Total	\$188

[Continue to checkout](#)

Order Information

Return Policy


This is our example return policy which is everything you need to know about our returns.

Wish List page


[Home](#) [Cart](#) [Wishlist](#)

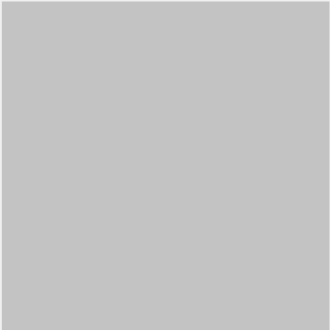
Wish List

Shop All





Jae Namaz
\$99





Dates
\$99





Miswak
\$99

