Day 4 – Dynamic Frontend Components

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Report

Overview: This report outlines all the work accomplished in the project so far, highlighting key tasks, solutions to challenges, and the overall progress made.

Project Components

1. Sanity Integration:

o **Objective**: Use Sanity CMS as the backend to fetch and manage product data.

o Tasks Accomplished:

- Created queries (postPathsQuery and postQuery) to fetch product paths and details.
- Implemented sanityFetch and integrated it with the application for seamless product data fetching.
- Successfully integrated product data into the pages and components.

2. Next.js and App Directory Setup:

- Utilized the app directory for routing and layout management.
- o Implemented generateStaticParams for static generation of product pages.
- Ensured the routing is dynamic, allowing each product to have its own dedicated page.

3. Cart Functionality:

- o **Objective**: Create a shopping cart system that works across all pages.
- o Implementation Details:
 - Designed a CartContext using React Context API to manage cart state globally.
 - Added functions in the CartContext to handle adding, removing, and updating cart items.

Utilized TypeScript to enforce type safety for cart items.

Dynamic Quantity Display:

 Displayed the total number of items in the cart dynamically on the Navbar.

4. UI Components:

- Created and customized the following reusable components using Tailwind CSS:
 - Navbar: Integrated the shopping cart button with a dynamic item count.
 - ProductDiscription Component:
 - Added an "Add to Cart" button for individual product pages.
 - Implemented client-side logic for adding products to the cart.

ShopContent:

- Displayed all products fetched from Sanity CMS.
- Included a pagination system and a search bar for filtering products.

5. Shopping Cart Modal:

- o Implemented a modal for the shopping cart that can be toggled from the Navbar.
- The modal displays all cart items, including their names, quantities, and prices.
- Added functionality to update and remove items directly from the modal.

6. Client-Side and Server-Side Code Separation:

- Ensured proper separation of server-side (generateStaticParams) and client-side (useCart) logic to avoid runtime conflicts.
- o Moved client-specific logic (e.g., cart actions) to client-side components.

Challenges and Solutions

- 1. Challenge: Conflicts between server-side and client-side logic.
 - Solution: Separated logic into server-side rendering (PostPage) and client-side components (ProductDiscription).

- 2. **Challenge**: Ensuring cart state is globally accessible.
 - Solution: Designed a CartContext to handle global state management.
- 3. Challenge: Dynamic Navbar quantity update.
 - Solution: Used useCart hook to fetch the cart state and dynamically display the item count.
- 4. **Challenge**: Styling inconsistencies.
 - Solution: Leveraged Tailwind CSS for responsive and consistent styling.

Key Accomplishments

- 1. Integrated Sanity CMS for product management and dynamic routing.
- 2. Designed a shopping cart system with dynamic updates and a modal interface.
- 3. Built reusable UI components with Tailwind CSS.
- 4. Ensured proper TypeScript integration for type safety.
- 5. Successfully managed and resolved client-server rendering conflicts.

Next Steps

1. Testing:

 Perform rigorous testing to ensure the cart and other functionalities work seamlessly across pages and devices.

2. **Optimization**:

- Optimize Sanity queries for faster data fetching.
- o Improve cart modal animations and transitions.

3. Feature Expansion:

- Add functionality for applying discounts or coupon codes in the cart.
- Enable user authentication and save cart state to the database.

4. Deployment:

o Prepare the project for deployment on a production server.





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