**Day 2 Technical Planning**

Project of Q-commerce

### Project Frontend

We will create a well-designed layout for the project using **Next.js**. The design will be optimized for both mobile and desktop views. The website will include the following key pages:

1. **Home Page**  
   The main landing page that showcases the overall purpose of the website.
2. **Login and Sign-Up Page**  
   A page where users can log in to their accounts or register as new users.
3. **Product Page**  
   A page displaying the available products, along with detailed descriptions and images.
4. **Add to Cart Page**  
   A section where users can add selected products to their cart. After adding an item, users will be redirected to the product page to review their selected items.
5. **Payment Page**  
   A page where users can enter payment details and complete their purchase.
6. **Address Page**  
   After providing payment details, users will be taken to a page where they can fill in their shipping address.

# Backend

1. **Landing Page and Homepage**:
   * When a user visits the website, they will land on the **Homepage**.
   * The homepage will display product categories, featured items, and a search bar for finding products.
2. **Product Details from Sanity API**:
   * All product data will be stored in **Sanity CMS**, and the backend will fetch this data using the **Sanity API**.
   * When a user selects a product, its details will be dynamically retrieved from Sanity CMS and displayed.
3. **Add to Cart**:
   * When the user clicks **"Add to Cart"**:
     + If the user is not logged in, they will be redirected to the **Login/Sign-Up page**.
     + After logging in, the product will be added to the cart.
4. **Cart Functionality**:
   * A **Cart Icon** will be present in the navbar.
     + The icon will dynamically show the total number of items in the cart.
   * Clicking on the cart icon will show a list of all added products, fetched from the backend.
     + Each product will display:
       - Name
       - Quantity
       - Price
       - Option to remove or modify the quantity.
5. **Product Details Page**:
   * When a user clicks on a specific product in the cart or anywhere else, the **Product Details Page** will open.
   * This page will show:
     + Name
     + Images
     + Full description
     + Ingredients
   * All data will be fetched from **Sanity CMS**.
6. **Order Placement and Checkout**:
   * **Checkout Flow**:
     + The user will confirm the delivery address.
     + The backend will calculate the total cost
     + The payment will be processed using a **third-party payment gateway** (e.g., Stripe or Razorpay).
   * **Storing Order Details**:
     + Once the order is placed, the backend will:
       - Store the order details (user ID, product IDs, total cost, and delivery address) in **Sanity CMS**.
       - Generate an **Order ID** for tracking purposes.
7. **Shipping and Tracking**:
   * The backend will integrate with a **third-party shipping API** to:
     + Generate a **Tracking ID**.
     + Fetch real-time updates on delivery status.
   * The Tracking ID and status will be stored in the backend and shown to the user on their **Order Tracking Page**.