## HACKATHON\_DAY\_2\_TASK Name: Sumayya PLANNING THE TECHNICAL FOUNDATION fazal hussain rollno.00137046. **E-COMMERCE -WEBSITE** 1. Technical requirements: 1. System Architecture Overview Our e-commerce platform consists of three main components: \*Frontend: Built with Next.js for server-side rendering and optimal performance \*Backend: Utilizing Sanity CMS for content management and data storage \*Third-party APIs: Integrated for payment processing, shipment tracking, and other 2. Key Workflows The platform supports the following key workflows: .User Registration and Authentication .Product Browsing and Searching .Shopping Cart Management .Checkout and Order Placement .Order Tracking and Management 3. API Endpoints The platform exposes RESTful API endpoints for various operations. Key endpoints include: //products: For product-related operations //orders: For order management //users: For user account management //cart: For shopping cart operations 4. Sanity Schema Design Sanity CMS is used to manage the following data models:

. Products: Including details like name, price, description, and inventory

When implementing the e-commerce platform, consider the following:

Implement proper error handling and validation in both frontend and backend

. Orders: Tracking order details, status, and associated customer

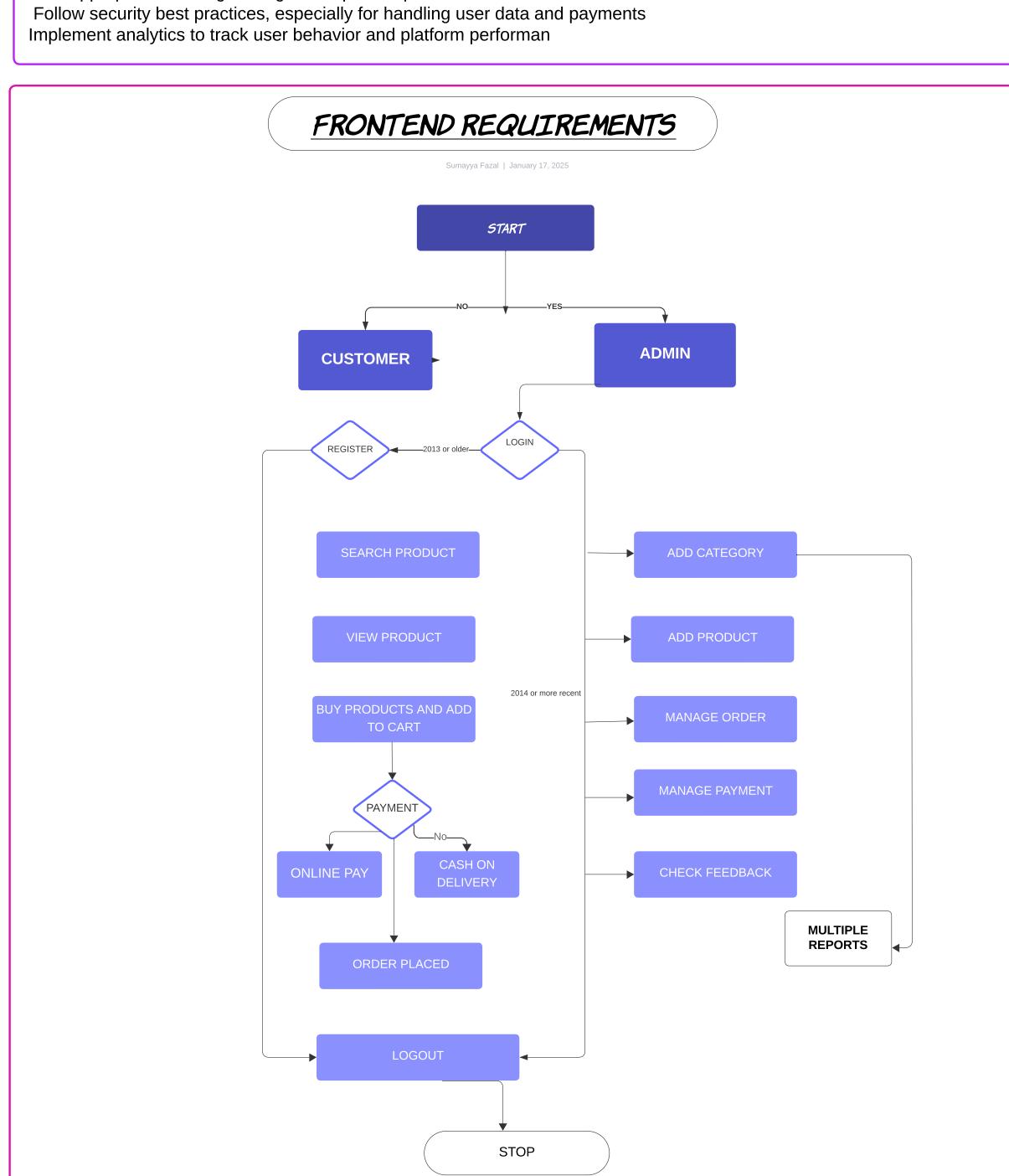
. Customers: Managing user profiles and authentication details

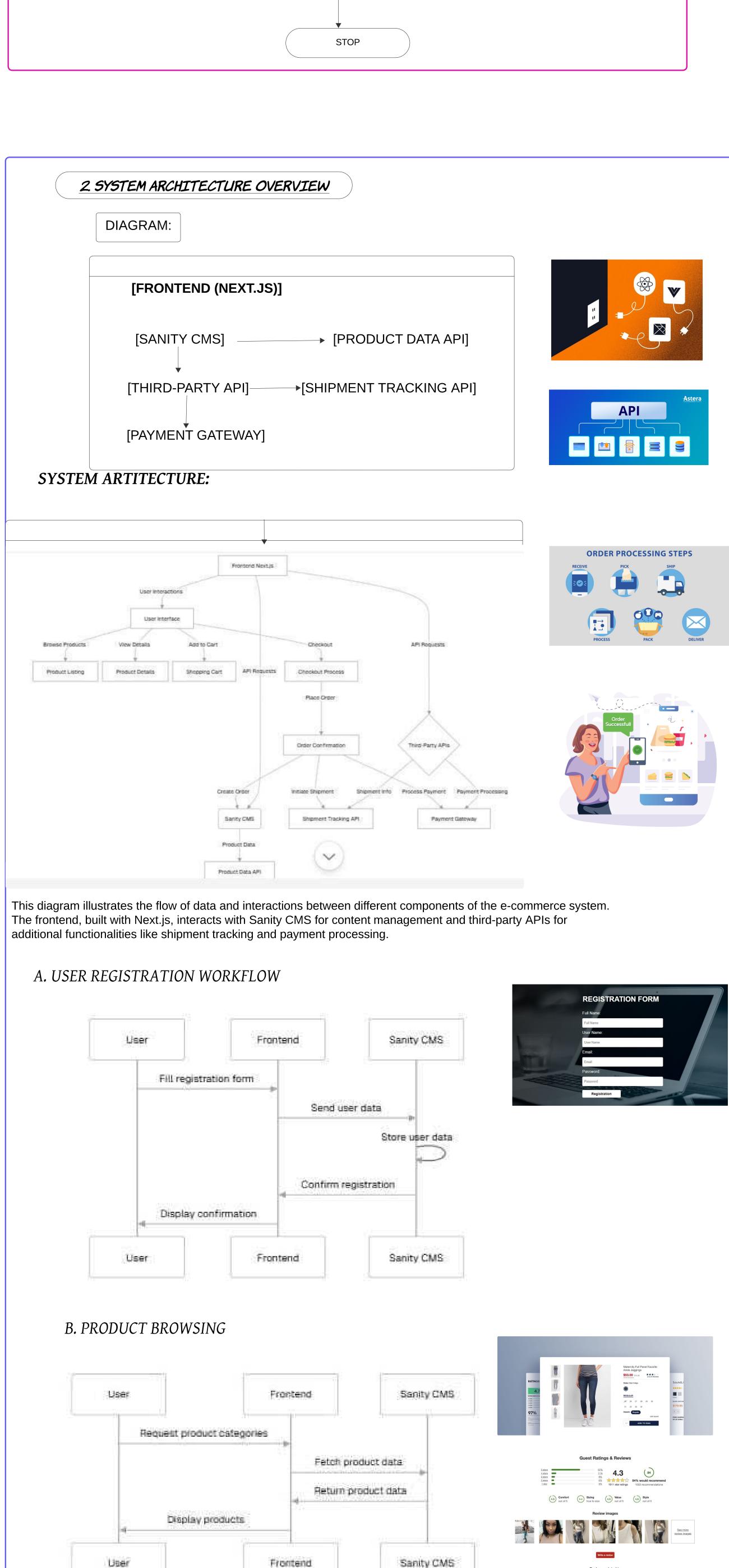
Ensure responsive design for mobile and desktop compatibility

Use appropriate caching strategies to optimize performance

. Categories: Organizing products into browsable categories

5. Implementation Guidelines

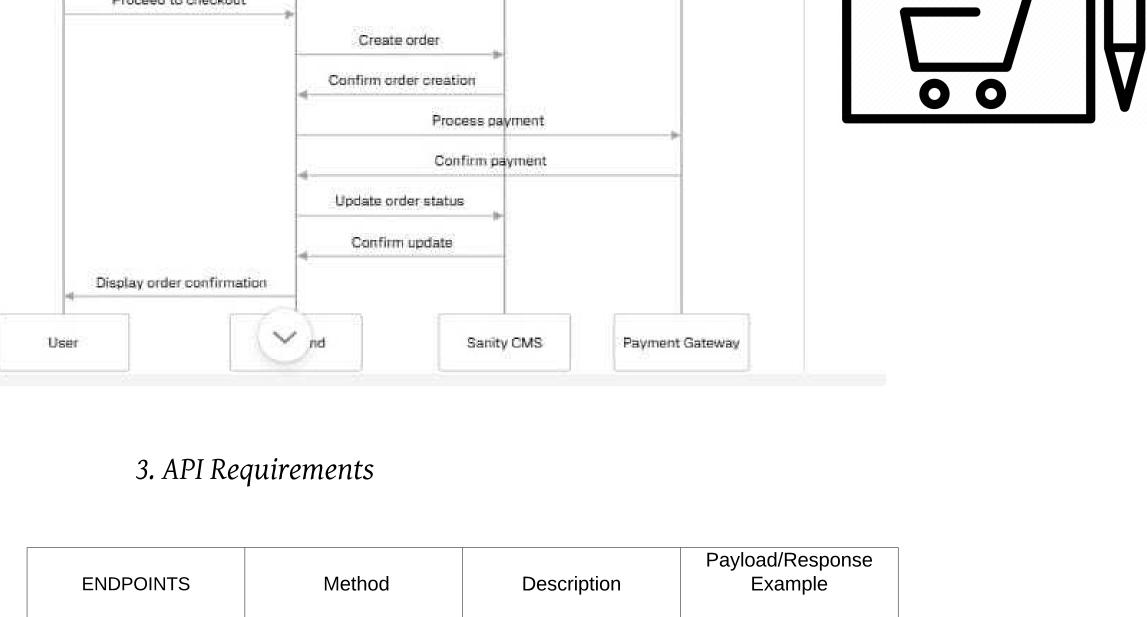






C. ORDER PLACEMENT WORKFLOW

/products



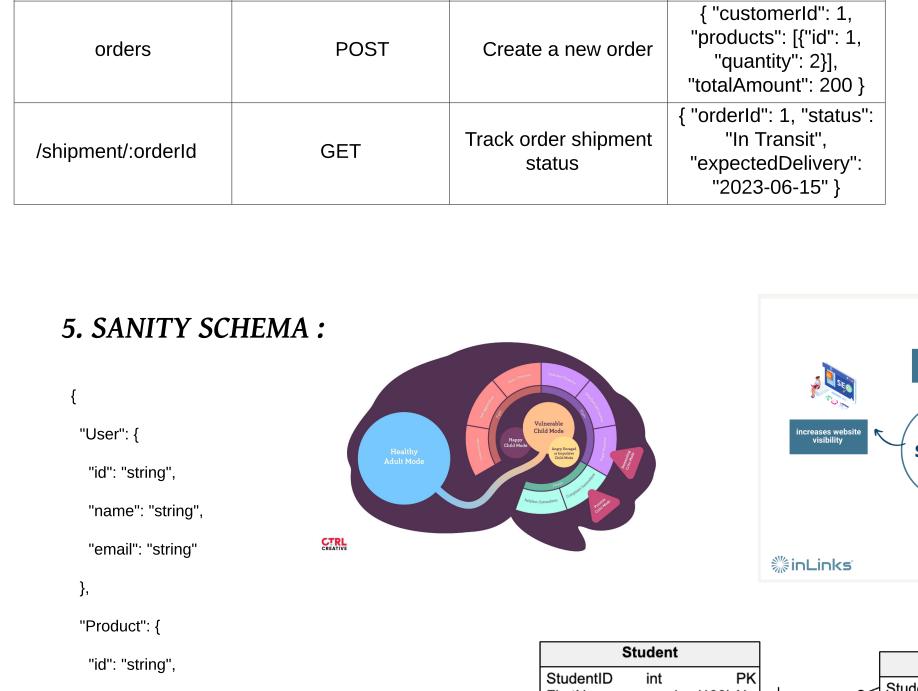
Fetch all available

products

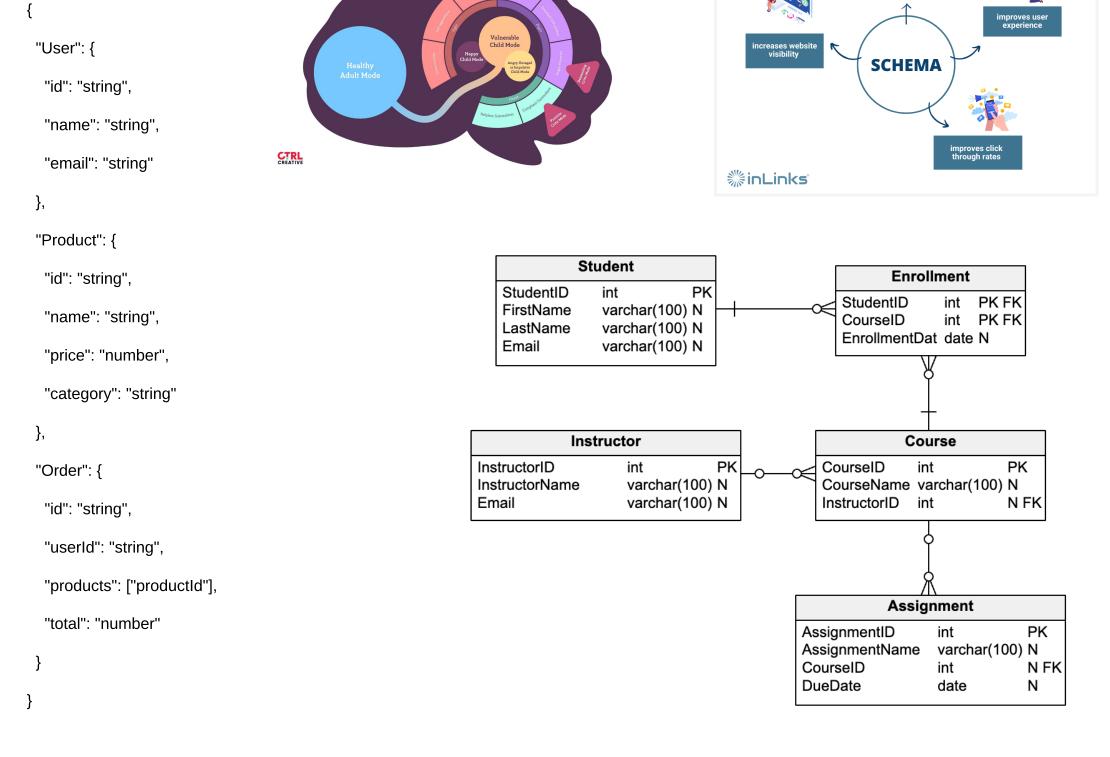
Payment Gateway

{ "id": 1, "name": "Product A", "price":

100, "stock": 50 }



**GET** 



Task 2 has been completed..!