MARKETPLACE BUSINESS PLAN DAY 3

Marketplace Implementation - SHOP.CO

I've completed my last day-1 and day-2 task now I'm going to validate my all plans which I've completed in last 2 days.

Here is breakdowns of my day3 plannings:

1. Functional Prototype

This section explains the features implemented in your marketplace. It describe how users can interact with the platform and the purpose of each functionality. Now here is step by step guide how we can implement this;

User Authentication:

Users can register and log in securely to access the marketplace features.

Product Browsing:

A visually appealing interface where users can view and filter products.

Order Placement:

A seamless checkout process that allows users to place orders with a confirmation page.

Sanity CMS Integration:

Enables efficient management of products, orders, and other content.

• Third-party API Integration:

Added functionalities such as payment gateways, product recommendations, etc., through APIs.

For Example:

Our marketplace prototype is designed to streamline the shopping experience. It allows users to explore a wide range of products, add items to the cart, and securely place orders. The backend integrates with Sanity CMS for smooth content management, ensuring efficiency and scalability.

2. User Interface Screenshots

This section contains screenshots of key pages of my marketplace. Here is my explanation of my each page .

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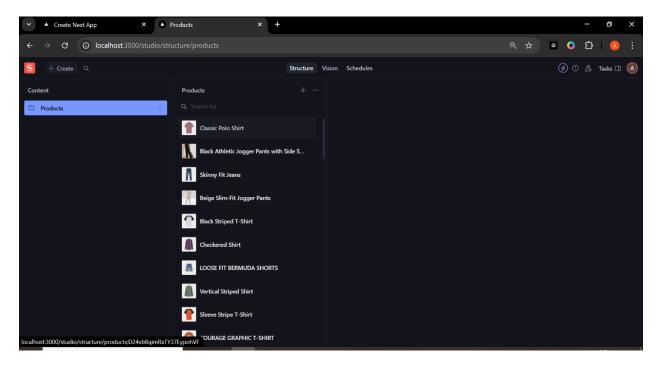
This involves including the API or a library related to it into your project files. Typically, this is done using import statements in JavaScript or TypeScript.

When you paste an API endpoint into the browser, it sends a GET request to the server. If the API is publicly accessible, the server responds with the data, typically in JSON format.

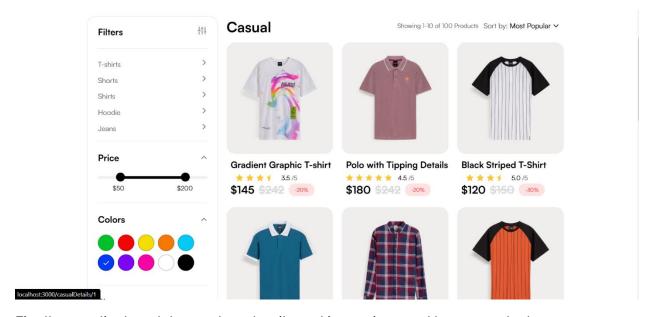
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| State | File | Edit | Selection | View | Go | Run | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... |
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GROQ is a query language often used with tools like Sanity.io to retrieve data from a content management system (CMS).

After creating the GROQ query, you executed it using the appropriate method (e.g., client.fetch(query) for Sanity).



Sanity Studio allows users to manage content, including adding or updating images for products.



Finally, you displayed the product details and image in a card layout on the browser.

3. Testing and Validation

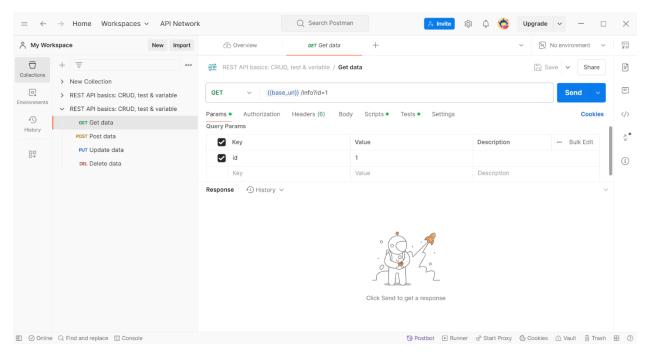
I've summarize my technical process in a single table. Here is my validation process;

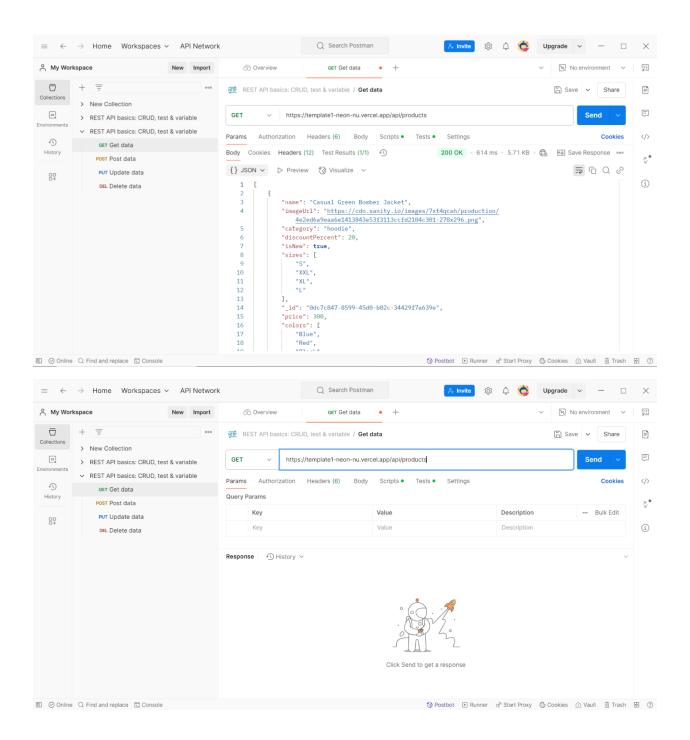
Test Case	Expected Outcome	Actual Outcome	Status
Success	Successful account creation	Passed	✓
Product Filtering	Correct filtered products displayed	Passed	✓
Order Placement	Order confirmation received	Passed	✓
Api Response Timing	Data fetching within 2 seconds	Passed	✓

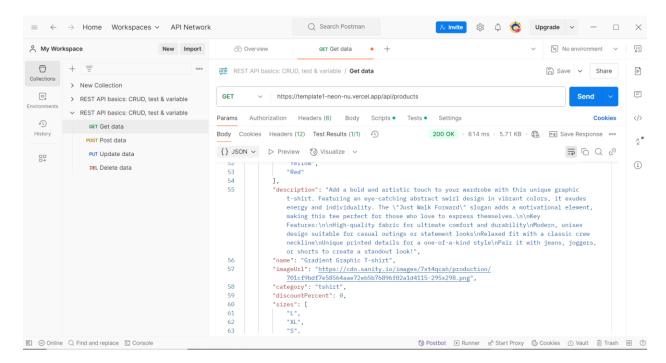
4. API Testing with Postman

Before using the API's I've test my API on postman I share my postman testing;

In first I've login my postman and I've generated new request and I passed the API URL and then I got 200 Status which means my API's have Completely fine.







5. Challenges faced and Solution

During my Hackathon I've faced some challenges. I want to show my challenges in my document. Here is my challenges which I've faced in my hackathon;

- **Challenges:** The first challenge I've faced which is API when I call API's call they were very slow, leading to delays in product loading.
- Solution: Optimized API requests using caching techniques
- Challenges: Authentication tokens were expiring too quickly.
- **Solutions**: Increased token expiration time and added session renewal functionality.

6. Future Plans

In future I'll implement some more functionality and more improvements in my hackathon plans

Example:

- Adding a wishlist feature.
- Implementing advanced search with multiple filters.
- Enhancing the UI/UX for mobile users.
- Introducing a review system for products

- Implementing Shipment and tracking system
- Display user order details
- I'll create admin panel

7. Repository Link

Here is my GitHub Repository Link where you can visit my plan about marketplace, you can also check my diagram which is related to my Design System Architecture.

GitHub Repository:

https://github.com/Areesha-sites/HACKATHONS.git

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