MARKETPLACE BUSINESS PLAN - DAY 3

Marketplace Implementation

Foodtuck

Having completed the tasks from Day **1** and Day **2**, I am now focusing on validating all the plans and strategies developed over the past two days.

1. Functional Prototype

This section outlines the features implemented in the marketplace. It highlights how users interact with the platform and the purpose of each functionality. Below is a step-by-step guide to the implementation process:

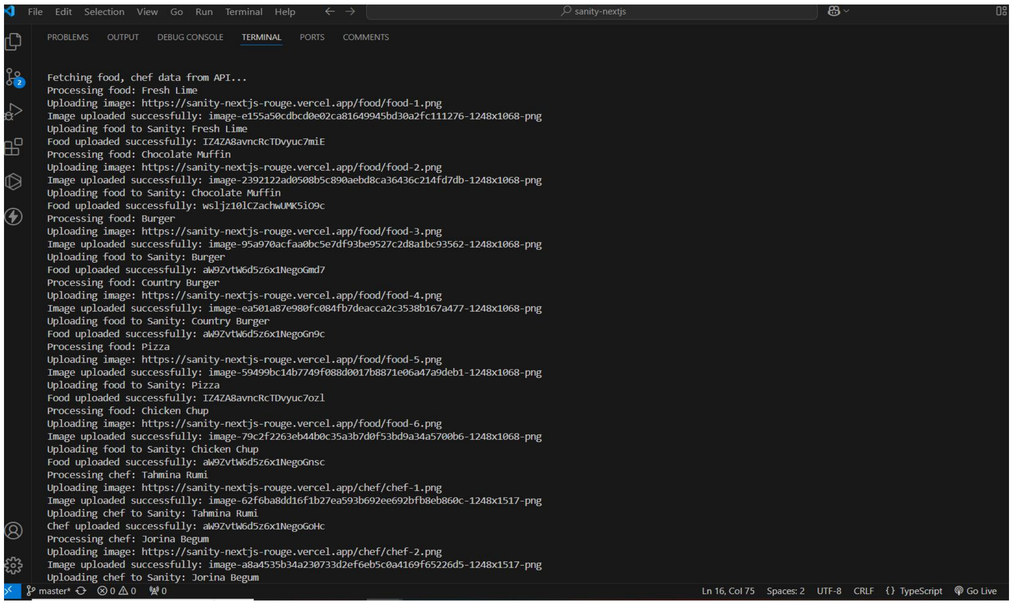
- ❖ **User Authentication:**
  Secure registration and login functionality to ensure users can access marketplace features safely.
- ❖ **Product Browsing:**
  An attractive and user-friendly interface that allows users to view and filter products effortlessly.
- ❖ **Order Placement:**
  A smooth and intuitive checkout process, including a confirmation page, to finalize orders seamlessly.
- ❖ **Sanity CMS Integration:**
  Facilitates efficient management of products, orders, and other content for streamlined operations.
- ❖ **Third-party API Integration:**
  Enhances platform functionality with features like payment gateways, product recommendations, and more via API integrations.

Illustration:

Our marketplace prototype is crafted to provide a smooth and user-friendly shopping experience. Customers can browse through a wide variety of products, add items to their cart, and complete their purchases securely. The backend is integrated with Sanity CMS to ensure effective content management, supporting scalability and efficient operations.

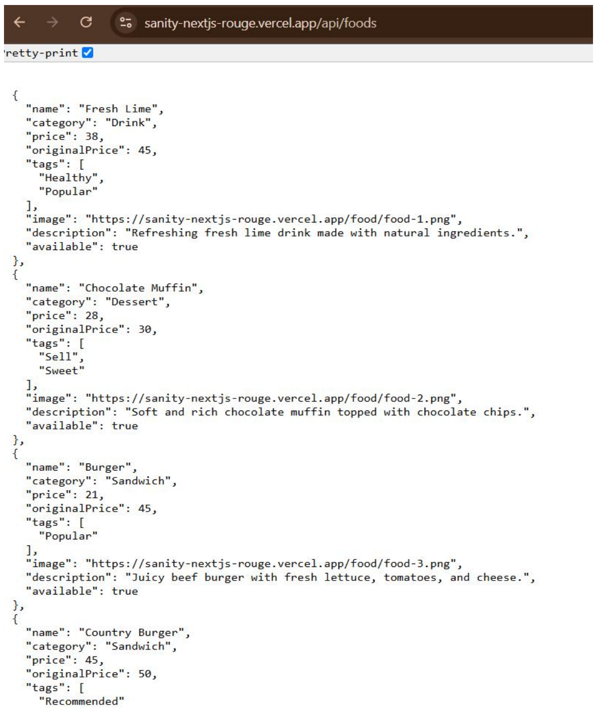
2. User Interface Screenshots

This section highlights screenshots of the key pages within the marketplace. Below is an explanation of each page:


File Edit Selection View Go Run Terminal Help
sanity-nextjs
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS COMMENTS

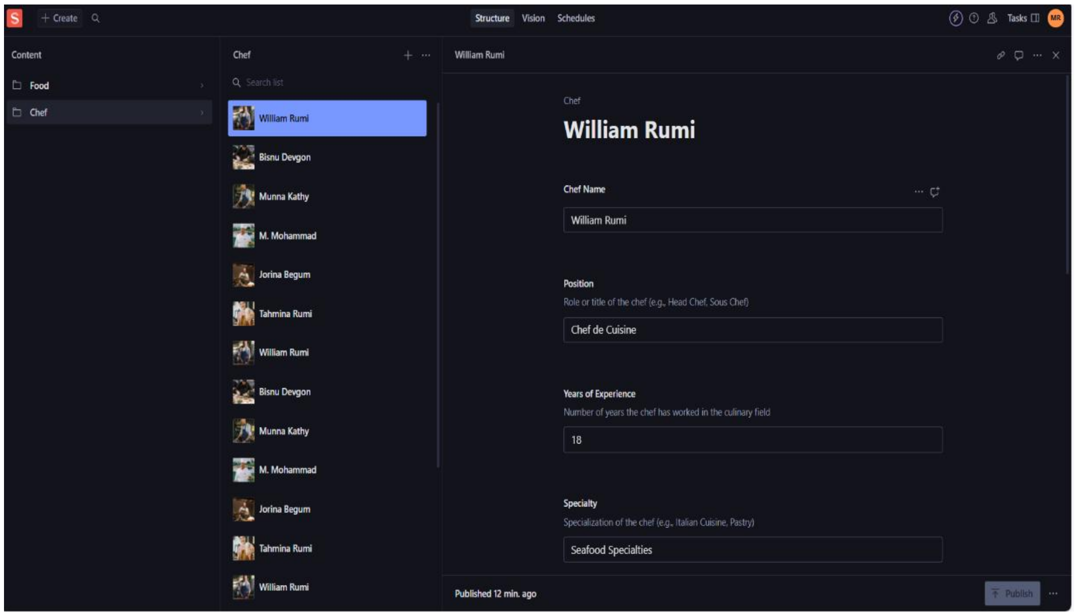
```
Fetching food, chef data from API...
Processing food: Fresh Lime
Uploading image: https://sanity-nextjs-rouge.vercel.app/food/food-1.png
Image uploaded successfully: image-e155a50cdbcd0e02ca81649945bd30a2fc111276-1248x1068-png
Uploading food to Sanity: Fresh Lime
Food uploaded successfully: IZ4ZA8avncRcTDvyuc7miE
Processing food: Chocolate Muffin
Uploading image: https://sanity-nextjs-rouge.vercel.app/food/food-2.png
Image uploaded successfully: image-2392122ad0508b5c890aebd8ca36436c214fd7db-1248x1068-png
Uploading food to Sanity: Chocolate Muffin
Food uploaded successfully: wsljz10lCZachwUMK5iO9c
Processing food: Burger
Uploading image: https://sanity-nextjs-rouge.vercel.app/food/food-3.png
Image uploaded successfully: image-95a970acfaa0bc5e7df93be9527c2d8a1bc93562-1248x1068-png
Uploading food to Sanity: Burger
Food uploaded successfully: aW9ZvtW6d5z6x1NegoGmd7
Processing food: Country Burger
Uploading image: https://sanity-nextjs-rouge.vercel.app/food/food-4.png
Image uploaded successfully: image-ea501a87e980fc084fb7deacca2c3538b167a477-1248x1068-png
Uploading food to Sanity: Country Burger
Food uploaded successfully: aW9ZvtW6d5z6x1NegoGn9c
Processing food: Pizza
Uploading image: https://sanity-nextjs-rouge.vercel.app/food/food-5.png
Image uploaded successfully: image-59499bc14b7749f088d0017b8871e06a47a9deb1-1248x1068-png
Uploading food to Sanity: Pizza
Food uploaded successfully: IZ4ZA8avncRcTDvyuc7ozl
Processing food: Chicken Chup
Uploading image: https://sanity-nextjs-rouge.vercel.app/food/food-6.png
Image uploaded successfully: image-79c2f2263eb44b0c35a3b7d0f53bd9a34a5700b6-1248x1068-png
Uploading food to Sanity: Chicken Chup
Food uploaded successfully: aW9ZvtW6d5z6x1NegoGnsc
Processing chef: Tahmina Rumi
Uploading image: https://sanity-nextjs-rouge.vercel.app/chef/chef-1.png
Image uploaded successfully: image-62f6ba8dd16f1b27ea593b692ee692bfb8eb860c-1248x1517-png
Uploading chef to Sanity: Tahmina Rumi
Chef uploaded successfully: aW9ZvtW6d5z6x1NegoGoHc
Processing chef: Jorina Begum
Uploading image: https://sanity-nextjs-rouge.vercel.app/chef/chef-2.png
Image uploaded successfully: image-a8a4535b34a230733d2ef6eb5c0a4169f65226d5-1248x1517-png
Uploading chef to Sanity: Jorina Begum
```

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



```
{
  "name": "Fresh Lime",
  "category": "Drink",
  "price": 38,
  "originalPrice": 45,
  "tags": [
    "Healthy",
    "Popular"
  ],
  "image": "https://sanity-nextjs-rouge.vercel.app/food/food-1.png",
  "description": "Refreshing fresh lime drink made with natural ingredients.",
  "available": true
},
{
  "name": "Chocolate Muffin",
  "category": "Dessert",
  "price": 28,
  "originalPrice": 30,
  "tags": [
    "Sell",
    "Sweet"
  ],
  "image": "https://sanity-nextjs-rouge.vercel.app/food/food-2.png",
  "description": "Soft and rich chocolate muffin topped with chocolate chips.",
  "available": true
},
{
  "name": "Burger",
  "category": "Sandwich",
  "price": 21,
  "originalPrice": 45,
  "tags": [
    "Popular"
  ],
  "image": "https://sanity-nextjs-rouge.vercel.app/food/food-3.png",
  "description": "Juicy beef burger with fresh lettuce, tomatoes, and cheese.",
  "available": true
},
{
  "name": "Country Burger",
  "category": "Sandwich",
  "price": 45,
  "originalPrice": 50,
  "tags": [
    "Recommended"
```

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



William Rumi
Bisnu Devgon
Munna Kathy
M. Mohammad
Jorina Begum
Tahmina Rumi
William Rumi
Bisnu Devgon
Munna Kathy
M. Mohammad
Jorina Begum
Tahmina Rumi
William Rumi

William Rumi

Chef

William Rumi

Chef Name: William Rumi

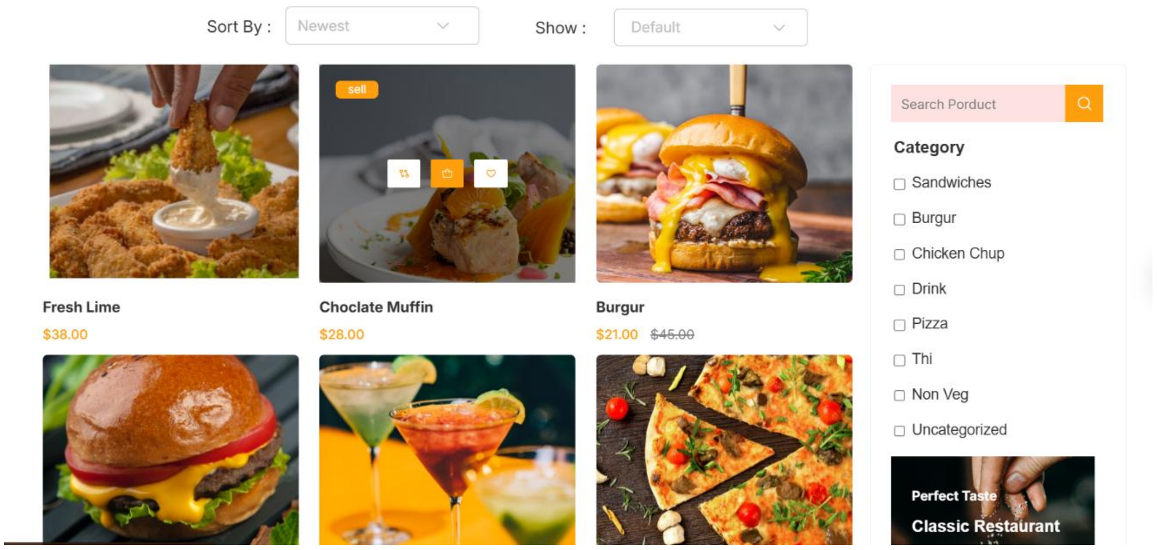
Position
Role or title of the chef (e.g., Head Chef, Sous Chef)
Chef de Cuisine

Years of Experience
Number of years the chef has worked in the culinary field
18

Specialty
Specialization of the chef (e.g., Italian Cuisine, Pastry)
Seafood Specialties

Published 12 min. ago

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



Sort By : Newest

Show : Default

Fresh Lime
$38.00

Choclate Muffin
$28.00

Burgur
$21.00 ~~$45.00~~

Category
- Sandwiches
- Burgur
- Chicken Chup
- Drink
- Pizza
- Thi
- Non Veg
- Uncategorized

The product page presents detailed information to help users make well-informed purchasing decisions

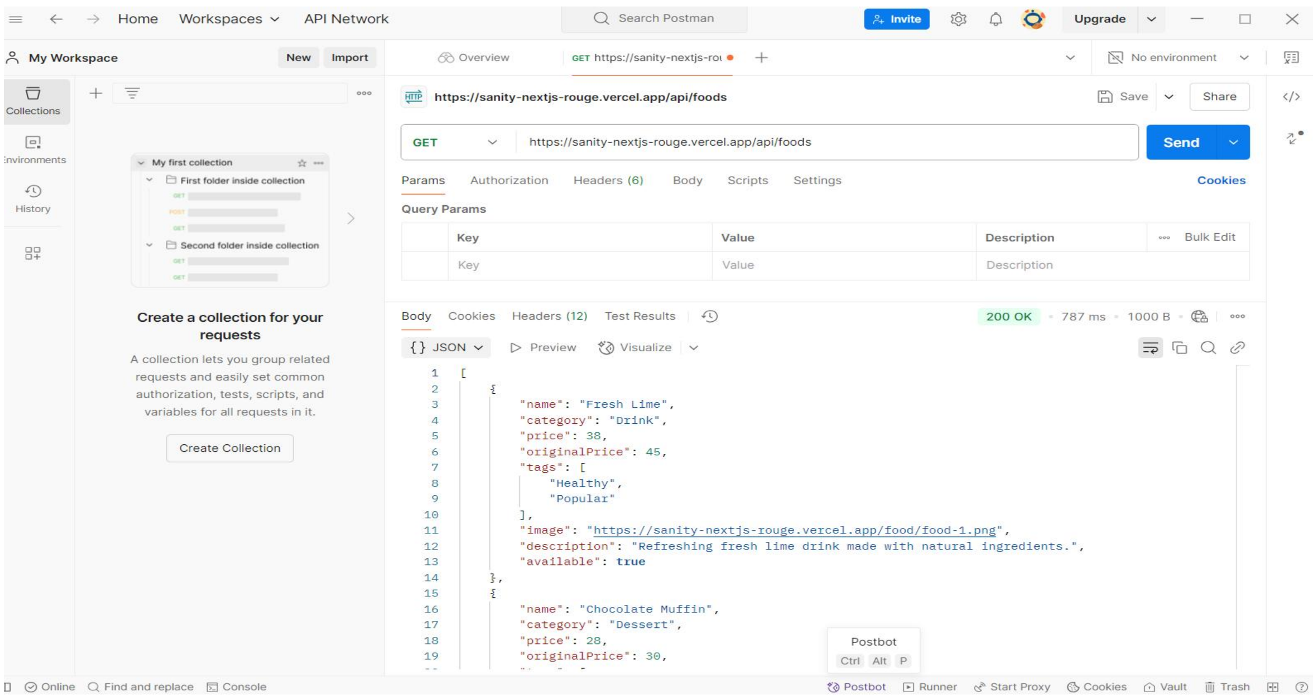
Testing and Validation

I have compiled the technical process into the table below, outlining the steps of my validation procedure:

Test Case	Expected Outcome	Actual Outcome	Status
Account Creation	Successful account creation	Passed	✓
Product Filtering	Correct filtered product display	Passed	✓
Order Placement	Order confirmation receive	Passed	✓
API Response Timing	Data fetching within 2 second	Passed	✓

3. API Testing with Postman

Before utilizing the APIs, I tested them on Postman and will share the results of my testing:
First, I logged into Postman, created a new request, and entered the API URL. Upon sending the request, I received a 200 status, confirming that the APIs were functioning properly.



https://sanity-nextjs-rouge.vercel.app/api/foods

GET https://sanity-nextjs-rouge.vercel.app/api/foods

Body — 200 OK · 787 ms · 1000 B

```
[
    {
        "name": "Fresh Lime",
        "category": "Drink",
        "price": 38,
        "originalPrice": 45,
        "tags": [
            "Healthy",
            "Popular"
        ],
        "image": "https://sanity-nextjs-rouge.vercel.app/food/food-1.png",
        "description": "Refreshing fresh lime drink made with natural ingredients.",
        "available": true
    },
    {
        "name": "Chocolate Muffin",
        "category": "Dessert",
        "price": 28,
        "originalPrice": 30,
```

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4. Challenges Faced and Solutions

During the Hackathon, I encountered several challenges, and I want to highlight them in this document. Here are the challenges I faced:

- **Challenge:** The first issue I encountered was slow API calls, which caused delays in product loading.
    - **Solution:** I optimized the API requests by implementing caching techniques.
- **Challenge:** Authentication tokens were expiring too quickly.
    - **Solution:** I extended the token expiration time and added a session renewal feature.

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5. Future Plans

In the future, I plan to implement additional features and improvements to further enhance the functionality of my marketplace. Some of these include:

- Adding a wishlist feature.
- Implementing advanced search with multiple filters.
- Improving the UI/UX for mobile users.
- Introducing a product review system.
- Implementing a shipment and tracking system.

- Displaying user order details.
- Developing an admin panel.

Repository Link

You can access my GitHub repository to explore my marketplace plan and check out the diagrams related to my design system architecture.

GitHub Repository:

https://github.com/Repo-Rani/Document.git