HACKATHON-03

DAY-06

Deployment_Preparation_and_Staging_Environment_Setup

[Honest_Bazar]

Staging Environment Setup

Hosting Platform Configuration

Platform Used: Vercel

Steps Taken:

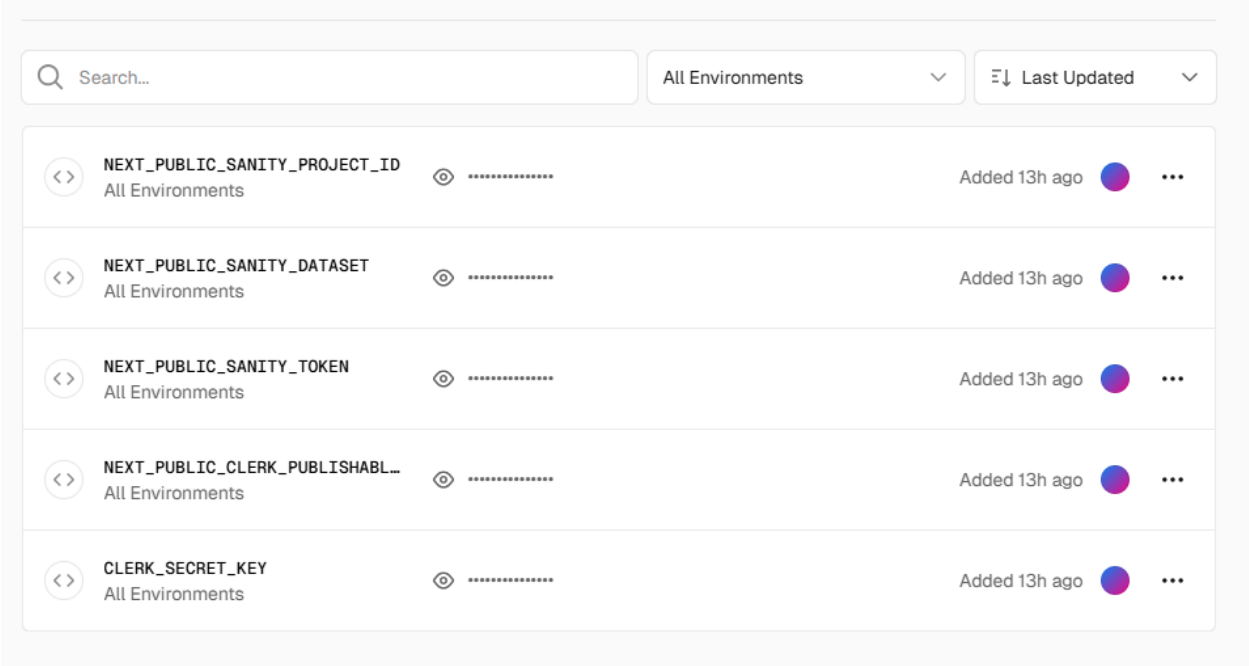
- Set up the GitHub repo and connected it to Vercel for seamless integration.
- Configured build and deployment settings specifically for the staging environment.
- Secured environment variables directly in the Vercel dashboard to keep everything clean and safe.

Clerk Secret

- **CLERK_SECRET_KEY=<Your Secret Key>**
- **NEXT_PUBLIC_CLERK_PUBLISHABLE_KEY=<Your Publishable Key>**

Sanity Secret

- **NEXT_PUBLIC_SANITY_PROJECT_ID= project_id**
- **NEXT_PUBLIC_SANITY_DATASET=production**
- **NEXT_PUBLIC_SANITY_API_TOKEN=your_api_key**



2. Testing in Staging Environment

Functional Testing

Tests Conducted:

1. **Product Listing and Filtering**
    - Verified that products are displayed correctly with all relevant details.
    - Confirmed that filtering options (e.g., by category, price, etc.) work as expected.
2. **Cart Operations**
    - Tested adding items to the cart to ensure they are reflected accurately.
    - Verified the removal of items from the cart and the cart total updates accordingly.
3. **Page Navigation**
    - Checked seamless navigation between pages (e.g., product page, cart page, checkout).
    - Ensured no broken links or unexpected transitions.

Result:

- All tests passed successfully.

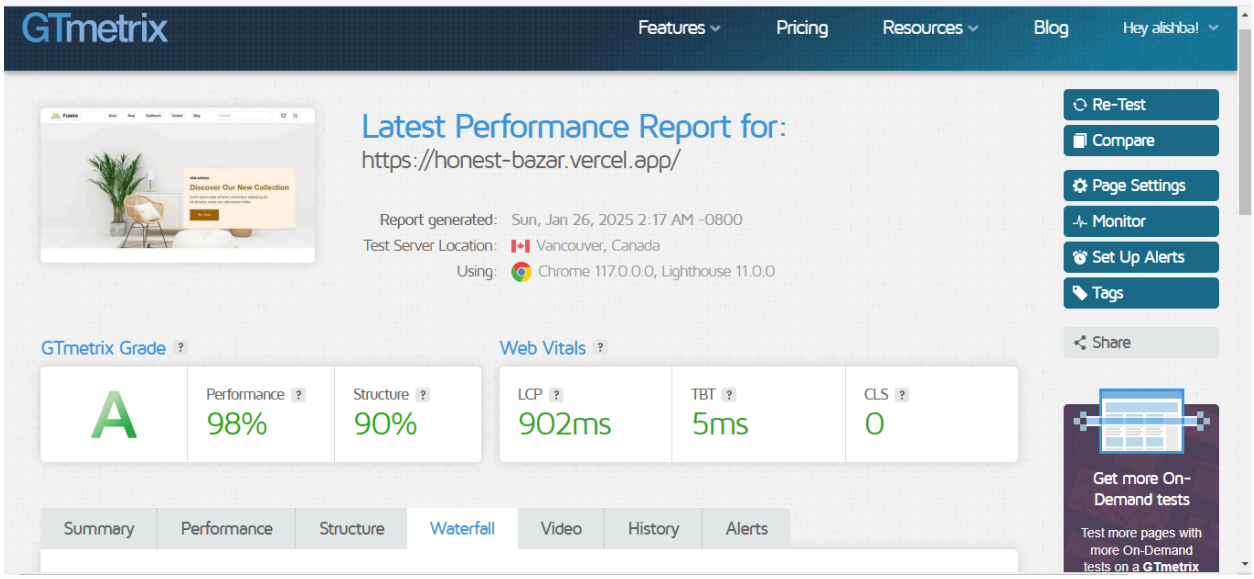
Performance Testing **Tool Used:** GTmetrix

Overall Results

- **Grade:** A
- **Performance Score:** 98%
- **Structure:** 90%

Key Metrics

- **Largest Contentful Paint (LCP):** 902ms
  - The LCP score indicates that the most important visual content loaded quickly and within an acceptable time frame (under 1 second is optimal).
- **Total Blocking Time (TBT):** 5ms
  - The TBT score shows minimal delay between interactions with the page, ensuring a smooth and responsive user experience.
- **Cumulative Layout Shift (CLS):** 0
  - A CLS of 0 means there were no unexpected layout shifts during the page load, ensuring a stable and pleasant viewing experience for users.



Summary

The website performs excellently, achieving high marks in key performance areas. With an A grade and a 98% performance score, it delivers fast load times, a smooth user experience, and stability throughout the loading process.

3. Documentation Updates

README.md Summary

• Included a detailed summary of:

Project setup and deployment process.

Key activities from Days 1 to 6.

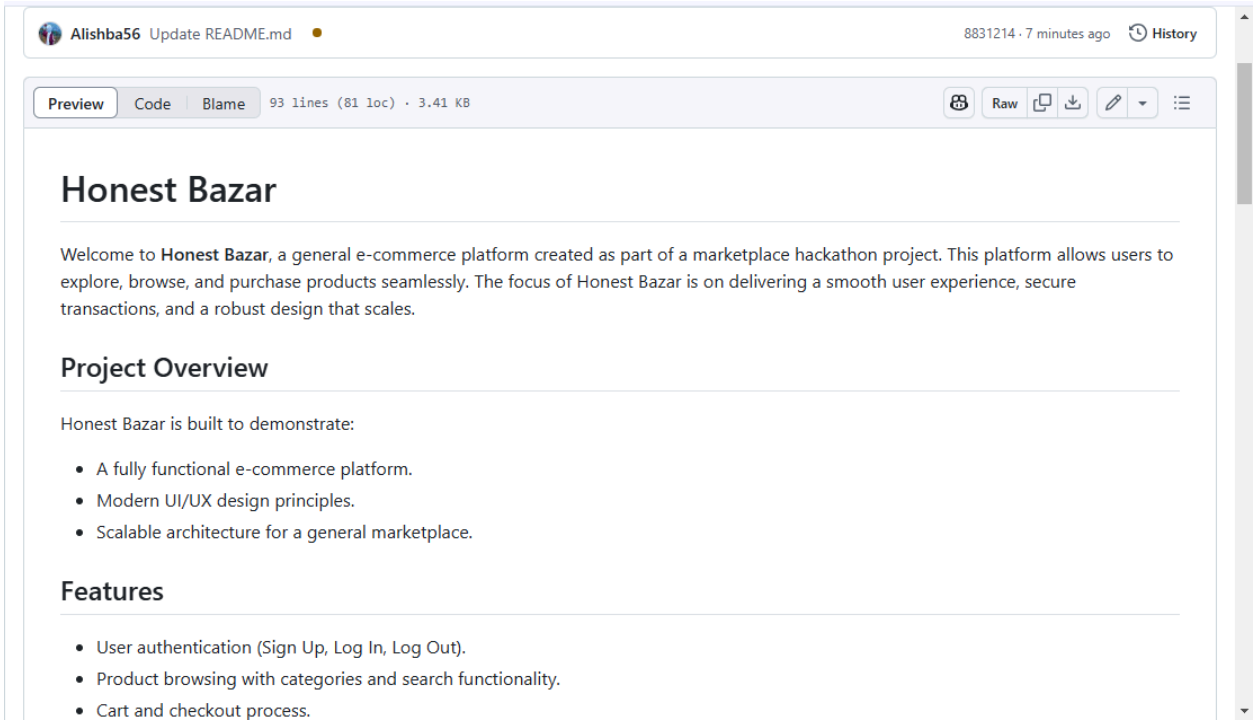
Folder structure and file descriptions:

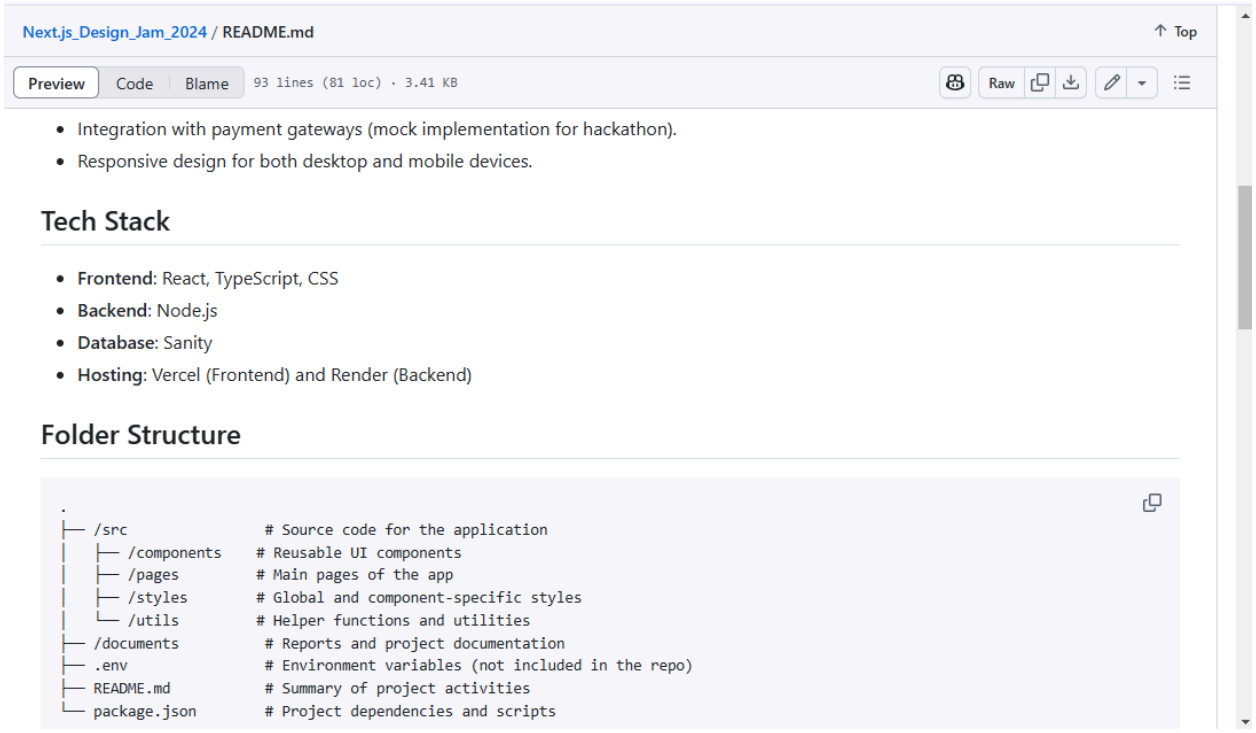
/src - Source code for the application.

/documents - Reports and documentation.

README.md - Summary of project activities.

• Added instructions for accessing the staging environment.


Alishba56 Update README.md
8831214 · 7 minutes ago
History
Preview
Code
Blame
93 lines (81 loc) · 3.41 KB
Raw
Honest Bazar
Welcome to Honest Bazar, a general e-commerce platform created as part of a marketplace hackathon project. This platform allows users to explore, browse, and purchase products seamlessly. The focus of Honest Bazar is on delivering a smooth user experience, secure transactions, and a robust design that scales.
Project Overview
Honest Bazar is built to demonstrate:
A fully functional e-commerce platform.
Modern UI/UX design principles.
Scalable architecture for a general marketplace.
Features
User authentication (Sign Up, Log In, Log Out).
Product browsing with categories and search functionality.
Cart and checkout process.


Next.js_Design_Jam_2024 / README.md
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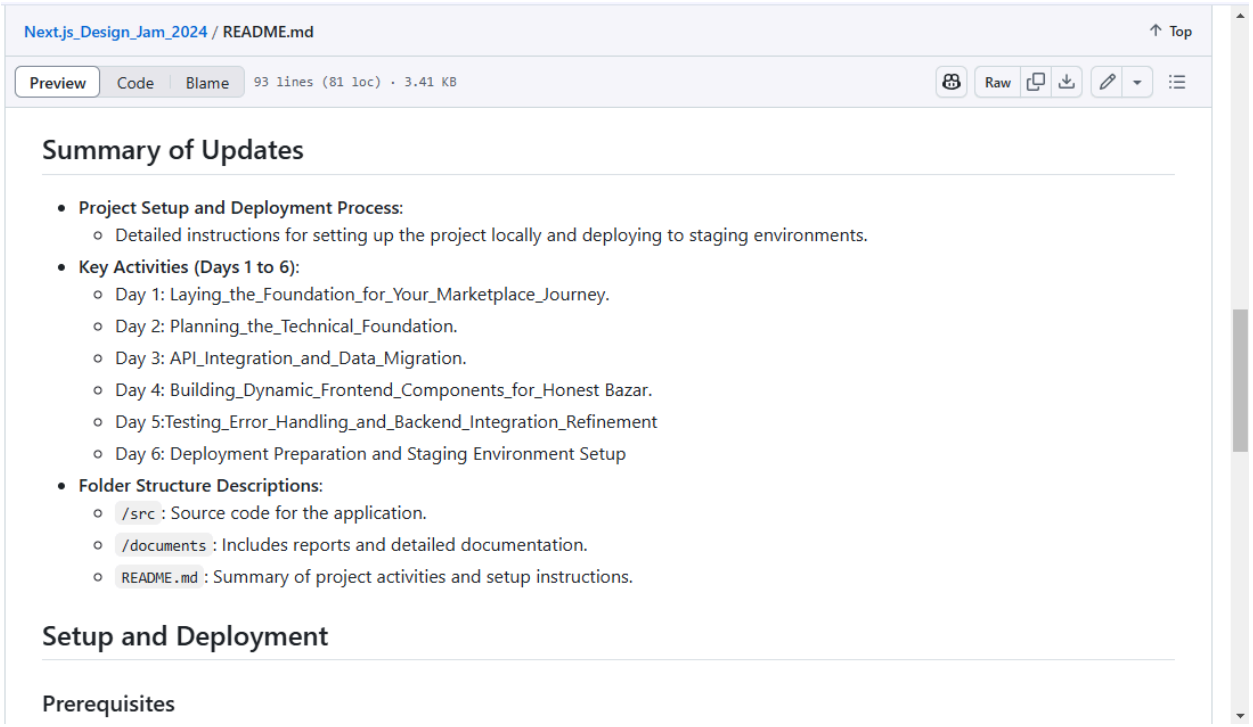
Code
Blame
93 lines (81 loc) · 3.41 KB
Raw
Integration with payment gateways (mock implementation for hackathon).
Responsive design for both desktop and mobile devices.
Tech Stack
Frontend: React, TypeScript, CSS
Backend: Node.js
Database: Sanity
Hosting: Vercel (Frontend) and Render (Backend)
Folder Structure
.
├── /src # Source code for the application
│ ├── /components # Reusable UI components
│ ├── /pages # Main pages of the app
│ ├── /styles # Global and component-specific styles
│ └── /utils # Helper functions and utilities
├── /documents # Reports and project documentation
├── .env # Environment variables (not included in the repo)
├── README.md # Summary of project activities
└── package.json # Project dependencies and scripts

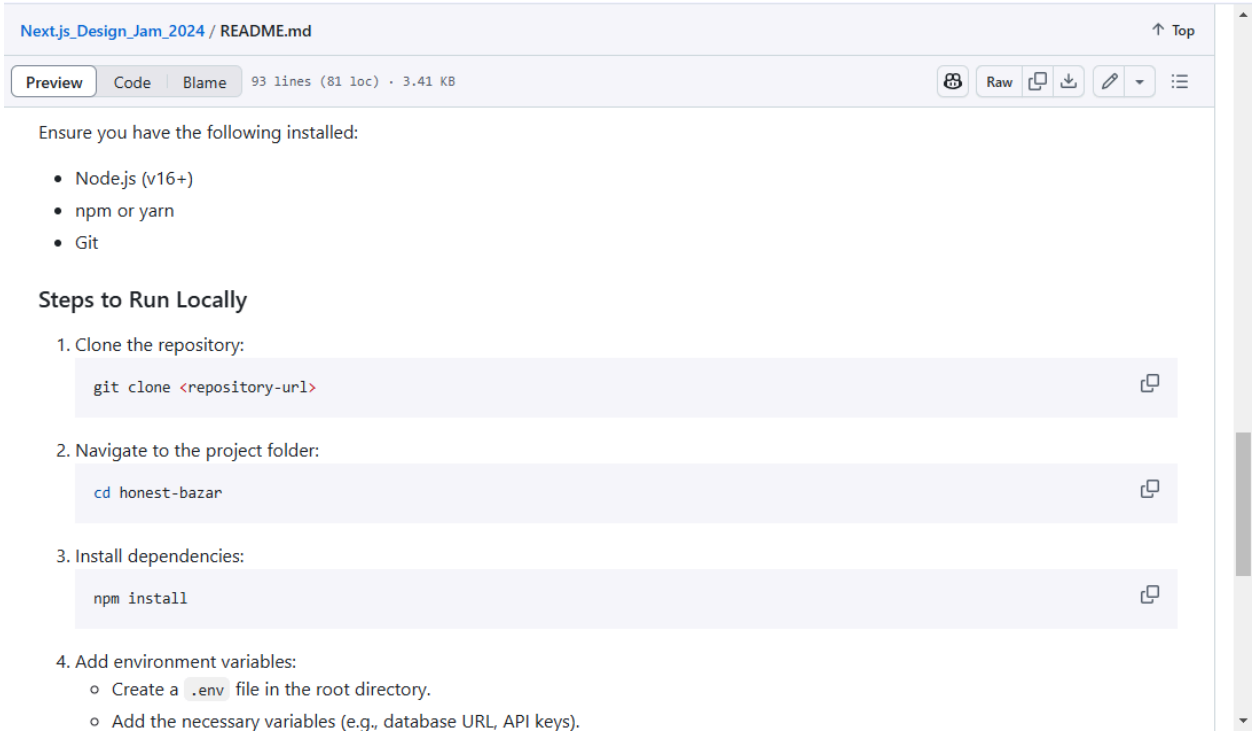


Summary of Updates

- **Project Setup and Deployment Process**:
  - Detailed instructions for setting up the project locally and deploying to staging environments.
- **Key Activities (Days 1 to 6)**:
  - Day 1: Laying_the_Foundation_for_Your_Marketplace_Journey.
  - Day 2: Planning_the_Technical_Foundation.
  - Day 3: API_Integration_and_Data_Migration.
  - Day 4: Building_Dynamic_Frontend_Components_for_Honest Bazar.
  - Day 5:Testing_Error_Handling_and_Backend_Integration_Refinement
  - Day 6: Deployment Preparation and Staging Environment Setup
- **Folder Structure Descriptions**:
  - `/src` : Source code for the application.
  - `/documents` : Includes reports and detailed documentation.
  - `README.md` : Summary of project activities and setup instructions.

Setup and Deployment

Prerequisites



Ensure you have the following installed:

- Node.js (v16+)
- npm or yarn
- Git

Steps to Run Locally

1. Clone the repository:

```
git clone <repository-url>
```

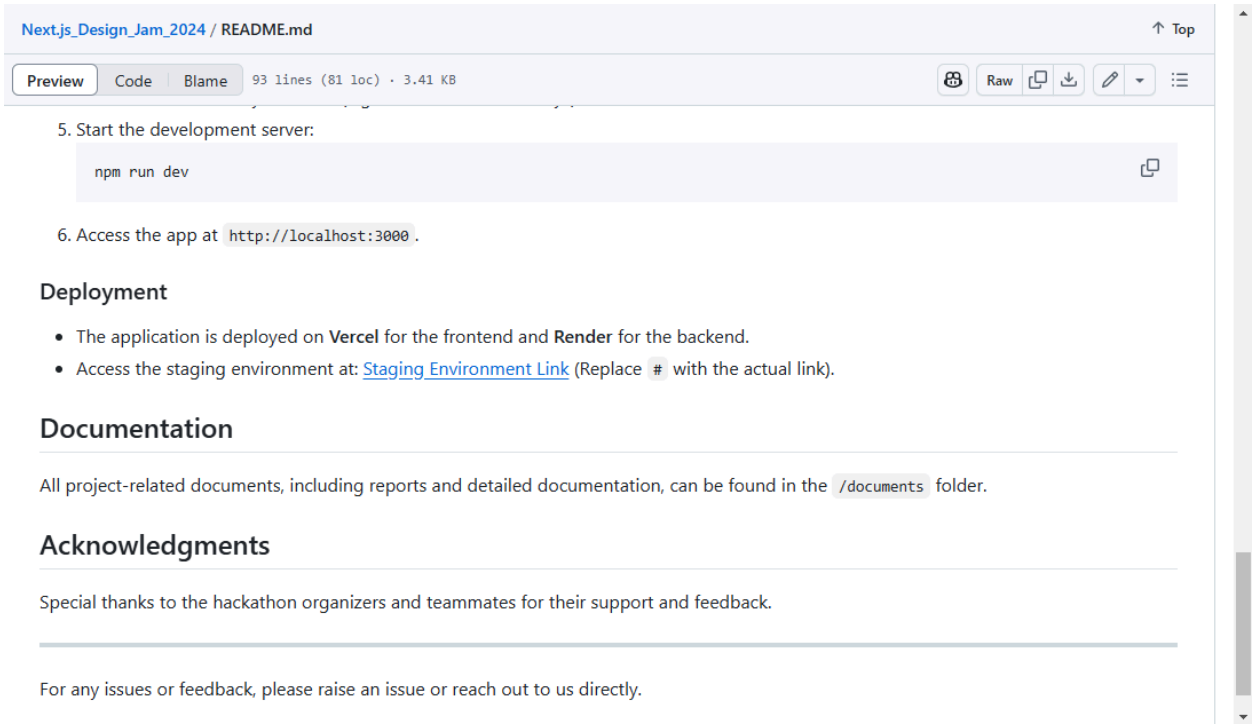
2. Navigate to the project folder:

```
cd honest-bazar
```

3. Install dependencies:

```
npm install
```

4. Add environment variables:
   - Create a `.env` file in the root directory.
   - Add the necessary variables (e.g., database URL, API keys).



Next.js_Design_Jam_2024 / README.md ↑ Top

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5. Start the development server:

```
npm run dev
```

6. Access the app at `http://localhost:3000`.

Deployment

- The application is deployed on **Vercel** for the frontend and **Render** for the backend.
- Access the staging environment at: Staging Environment Link (Replace `#` with the actual link).

Documentation

All project-related documents, including reports and detailed documentation, can be found in the `/documents` folder.

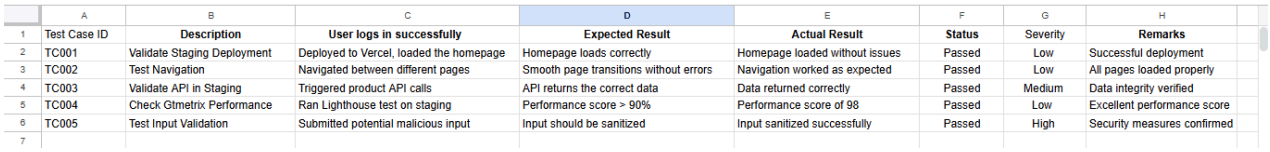
Acknowledgments

Special thanks to the hackathon organizers and teammates for their support and feedback.

For any issues or feedback, please raise an issue or reach out to us directly.

4. CSV Testing Report

Created a detailed CSV report with fields:



	A	B	C	D	E	F	G	H
1	Test Case ID	Description	User logs in successfully	Expected Result	Actual Result	Status	Severity	Remarks
2	TC001	Validate Staging Deployment	Deployed to Vercel, loaded the homepage	Homepage loads correctly	Homepage loaded without issues	Passed	Low	Successful deployment
3	TC002	Test Navigation	Navigated between different pages	Smooth page transitions without errors	Navigation worked as expected	Passed	Low	All pages loaded properly
4	TC003	Validate API in Staging	Triggered product API calls	API returns the correct data	Data returned correctly	Passed	Medium	Data integrity verified
5	TC004	Check Gtmetrix Performance	Ran Lighthouse test on staging	Performance score > 90%	Performance score of 98	Passed	Low	Excellent performance score
6	TC005	Test Input Validation	Submitted potential malicious input	Input should be sanitized	Input sanitized successfully	Passed	High	Security measures confirmed
7								

Submission Checklist

Activities Completed:

1. **Staging Environment Setup:**
   The staging environment was deployed successfully, ensuring that all features are ready for testing.
2. **GitHub Repository Update:**
   The repository has been updated with neatly organized files and an updated README.md for clear documentation.
3. **Testing Completed:**

   Functional Testing: Ensured all core functionalities were working as expected.

Performance Testing: Verified the site's performance, achieving a high score.

Security Testing: Validated input fields and verified no security vulnerabilities.

4. **Test Case Report (CSV):**
   A detailed CSV report was created, documenting all the test cases, steps, expected results, and status.
5. **Performance Testing Results:**
   The results of performance testing, including the high Lighthouse score of 98, were captured and documented.

Summary

This document outlines the activities and results from **Day 6**, highlighting the successful staging environment deployment, thorough testing, and deployment readiness. Everything is on track for the next steps.