

Shop.co - Marketplace hackathon(Day 1-6)

Shop.co is a modern and responsive clothes marketplace designed to empower small businesses and individuals. This platform provides a seamless and secure e-commerce experience.

Project Overview

Shop.co is part of a hackathon project developed in 6 days. Each day's tasks focused on a specific aspect of the application, including design, development, testing, and deployment.

Features

- **Dynamic Product Pages:** Product listing and detail pages.
 - **Reusable Components:** Header, Footer, Sidebar, Filters, Cards, and ProductCards.
 - **Responsive Design:** Optimized for mobile, tablet, and desktop screens.
 - **Performance Optimized:** Tested with Lighthouse and GTmetrix.
 - **Environment Variables:** Securely stored sensitive data using .env.
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Day-by-Day Progress

Day 1: Conceptualization and Marketplace Design

- Defined the marketplace type as a **general e-commerce platform for Shop.co**.
 - **Business Goals:**
 - Promote small businesses and entrepreneurship.
 - Provide a seamless platform for buying and selling dresses online.
 - **Data Schema:**
 - Entities: Products, Orders, Customers, and Delivery Zones.
 - Relationships: Customers place orders, orders reference products, and delivery zones are assigned to drivers.
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Day 2: Technical Planning

- **Tech Stack Finalized:**
 - **Frontend:** Next.js with Tailwind CSS for styling.
 - **Backend:** Sanity CMS for data management.
 - **Hosting:** Netlify for deployment.
 - **Component Design:**
 - Designed and planned key components like ProductCard and Sidebar.
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Day 3: Data Schema and Migration

- **Sanity CMS Setup:**
 - Designed the schema for product categories, product descriptions, Colors, and pricing.
 - **Data Import:**
 - Imported sample product data into CMS for testing.
 - **Relationships:**
 - Defined relationships between products and orders.
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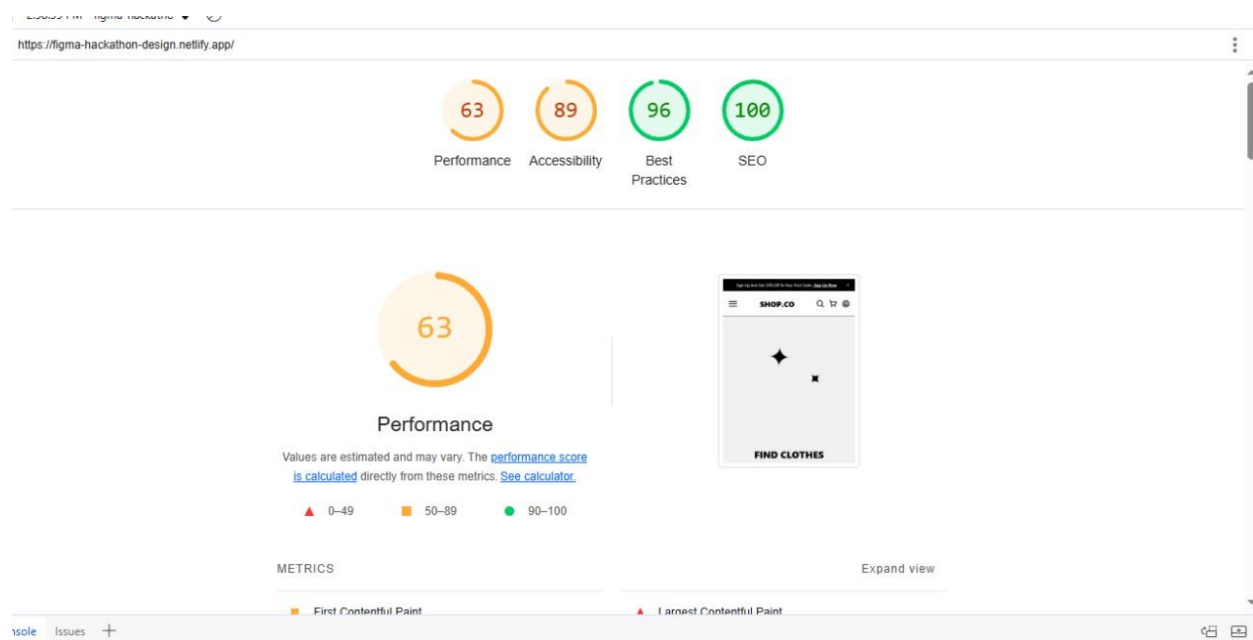
Day 4: Dynamic Component Creation

- **Key Components Developed:**
 - **Header:** Responsive navigation bar.
 - **ProductCard:** To display product details.
 - **FilterSidebar:** For dynamic filtering options.
 - **PaginationControls:** For dividing products into multiple pages.
 - **Styling:** Styled components using Tailwind CSS to make them responsive and visually appealing.
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Day 5: Testing

- **Functional Testing:**
 - Verified workflows and API responses using Cypress and Postman.
- **Performance Testing:**
 - Analyzed speed and responsiveness using Lighthouse and GTmetrix tools.
- **Security Testing:**
 - Ensured input validation and HTTPS configurations.
- **Test Report:**
 - Documented functional and security test cases.

Performance Testing:



Day 6: Deployment and Staging Environment

- **Deployment:**
 - Deployed the project to Vercel for a staging environment.
- **Environment Variables:**
 - Configured API keys and sensitive data securely in the .env file.
- **Staging Environment Testing:**

- Completed functional, performance, and security testing.
- **Documentation:**
 - Organized project files and README.md in the GitHub repository.

Hackathon Day-by-Day Progress



Hackathon Day-by-Day Progress

Day	Activity	Deliverables
Day 1	Conceptualization	Marketplace Design & Business Goals
Day 2	Technical Planning	Tech Stack Finalized
Day 3	Data Schema & Migration	Products, Customers, Orders Schema
Day 4	Dynamic Components Creation	Components like ProductCard, FilterSidebar
Day 5	Testing	Functional, Performance, and Security Tests
Day 6	Deployment	Deployed Staging Environment



Project Structure

The project is organized as follows:

ui-ux-hackathon/

```
├── src/
│   ├── components/
│   │   ├── Header.js
│   │   ├── Footer.js
│   │   ├── Sidebar.js
│   │   ├── Modal.js
│   │   ├── Button.js
│   │   └── Card.js
```

- | | └─ FormInput.js
- | | └─ Navbar.js
- | | └─ ProductCard.js
- | | └─ Pagination.js
- | | └─ FilterSidebar.js
- | | └─ SearchBar.js
- | | └─ UserProfile.js
- | | └─ LoginForm.js
- | | └─ SignupForm.js
- | | └─ Notification.js
- | | └─ Spinner.js
- | | └─ Tooltip.js
- | └─ pages/
 - | | └─ index.js
 - | | └─ about.js
 - | | └─ contact.js
 - | | └─ products.js
 - | | └─ product/[slug].js
 - | | └─ login.js
 - | | └─ signup.js
- | └─ Documents/
 - | | └─ hackathon-day1.pdf
 - | | └─ hackathon-day2.pdf
 - | | └─ hackathon-day3.pdf
 - | | └─ hackathon-day4.pdf

| | └─ hackathon-day5.pdf

| | └─ hackathon-day6.pdf

└─ public/

| └─ images/

| └─ assets/

└─ .env

└─ README.md

Description of Folders and Files

src/components/

This folder contains all reusable UI components, such as:

- **Header.js**: Displays the navigation bar at the top of the page.
- **Footer.js**: Displays the footer section.
- **Sidebar.js**: Provides a sidebar for filters or navigation.
- **Modal.js**: Handles pop-up modal functionality.
- **Button.js**: Customizable button components.
- **Card.js**: Generic card component used in various places.
- **FormInput.js**: Input fields for forms.
- **Navbar.js**: Additional navigation bar configuration.
- **ProductCard.js**: Displays product information in a card format.
- **Pagination.js**: Handles pagination of data.
- **FilterSidebar.js**: Dynamic filtering options for products.
- **SearchBar.js**: Search functionality for the application.
- **UserProfile.js**: Displays user profile information.
- **LoginForm.js**: Form for user login.
- **SignupForm.js**: Form for user signup.
- **Notification.js**: Handles notifications for the application.

- **Spinner.js**: Loading spinner for asynchronous operations.
- **Tooltip.js**: Provides tooltips for additional context.

src/pages/

This folder contains all the main pages:

- **index.js**: Homepage of the application.
- **about.js**: About page.
- **contact.js**: Contact page.
- **products.js**: Page displaying all products.
- **product/[slug].js**: Dynamic route for individual product details.
- **login.js**: User login page.
- **signup.js**: User signup page.

src/Documents/

Contains project documentation for each day of the hackathon:

- **hackathon-day1.pdf**: Details of Day 1 activities.
- **hackathon-day2.pdf**: Details of Day 2 activities.
- **hackathon-day3.pdf**: Details of Day 3 activities.
- **hackathon-day4.pdf**: Details of Day 4 activities.
- **hackathon-day5.pdf**: Details of Day 5 activities.
- **hackathon-day6.pdf**: Details of Day 6 activities.

public/

This folder contains public assets:

- **images/**: Image assets used in the project.
- **assets/**: Additional assets like icons, fonts, etc.

.env

Environment variables file for sensitive data such as API keys.

README.md

This file provides an overview of the project.

Environment Setup

1. **Clone the repository:**

2. `git clone https://github.com/Komal-shah22/ui-ux-hackathon.git`

`cd ui-ux-hackathon`

3. **Install dependencies:**

`npm install`

4. **Setup environment variables:** Create a `.env` file and add the following:

5. `NEXT_PUBLIC_API_URL=your_api_url`

`NEXT_PUBLIC_SANITY_PROJECT_ID=your_project_id`

6. **Run the development server:**

`npm run dev`

7. **Visit the application:** Open your browser and navigate to `http://localhost:3000`.

Deployment

Deployed on **Vercel**. Visit the [staging environment](#) for more details.

Contact

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