

# HACKATHON DAY 6

## DEPLOYMENT PROCESS & TESTING REPORT

### Project Overview

This document outlines the deployment process, staging environment setup, and testing conducted for my e-commerce website built with **Next.js**, **Sanity CMS**, and **Stripe payments**.

### 1. Deployment & Hosting

#### Hosting Platform:

- Vercel** was selected for its seamless integration with **Next.js**.
- GitHub** was linked to ensure automatic deployment upon every commit.

#### Deployment Steps:

- Connect GitHub to Vercel** and import the project.
- Configure Environment Variables** in `.env.local` and on Vercel.
- Run Build & Deploy** to ensure the website is live.

#### Environment Variables:

NEXT\_PUBLIC\_SANITY\_PROJECT\_ID=your\_project\_id  
NEXT\_PUBLIC\_STRIPE\_PUBLISHABLE\_KEY=your\_stripe\_key  
STRIPE\_SECRET\_KEY=your\_secret\_key

### 2. Staging Environment Setup & Testing

Test ID	Feature	Test Steps	Expected Outcome	Actual Outcome	Status
TC001	Product Listing	Open home page & check products	Products should display correctly	Displayed correctly	Passed
TC002	Search Function	Search for a product	Relevant results should appear	Works as expected	Passed
TC003	Add to Cart	Add a product to the cart	Cart updates instantly	Working correctly	Passed
TC004	Checkout	Initiate payment via Stripe	Redirects to Stripe checkout	Payment gateway working	Passed

TC005	Mobile Responsiveness	Resize screen and check UI	Adjusts layout correctly	Mobile-friendly	Passed
-------	-----------------------	----------------------------	--------------------------	-----------------	--------

### 3. Backend & API Integration

#### Sanity CMS Setup

```
import { createClient } from '@sanity/client';

const client = createClient({

  projectId: process.env.NEXT_PUBLIC_SANITY_PROJECT_ID,

  dataset: process.env.NEXT_PUBLIC_SANITY_DATASET,

  useCdn: true,

});
```

#### Fetching Products from Sanity

```
export async function fetchProducts() {

  return await client.fetch('*[_type == "product"]');

}
```

#### Stripe Payment Integration

```
import { loadStripe } from '@stripe/stripe-js';

const stripePromise = loadStripe(process.env.NEXT_PUBLIC_STRIPE_PUBLISHABLE_KEY);
```

#### Handling Payments:

```
export async function handlePayment(sessionId) {

  const stripe = await stripePromise;

  await stripe.redirectToCheckout({ sessionId });

}
```

---

### 4. Final Deployment Checklist

- Hosting & domain setup on **Vercel** ✓
- All API integrations tested ✓
- Checkout & payments verified ✓
- Mobile responsiveness ensured ✓

- GitHub repository updated ✓

## Live Website:

<https://e-commerce-aq.vercel.app/>