

Day 6 – Deployment and Staging Environment Documentation

Project Name: Home haven

Developer: Huzaif

1. Deployment Configuration

1.1 Hosting Platform Details

- **Platform:** Vercel
- **Repository Connection:** Connected to GitHub
- **Build Settings:**
 - Framework Preset: Next.js
 - Build Command: `npm run build`
 - Output Directory: `.next`

1.2 Environment Variables

`env`

```
NEXT_PUBLIC_SANITY_PROJECT_ID=your_project_id
NEXT_PUBLIC_SANITY_DATASET=production
API_KEY=your_api_key
```

2. Staging Environment Setup

2.1 Deployment URL

- Staging URL: <https://homehaven-hackathon.vercel.app/>
- Branch: staging

2.2 Build Configuration

- Node.js Version: 18.x
- Package Manager: npm
- Environment: Production

3. Testing Results

3.1 Functional Testing

- ✓ Product listing functionality
- ✓ Cart operation
- ✓ Checkout process

3.2 Performance Metrics

Lighthouse Score:

- Performance: 85/100
- Accessibility: 92/100
- Best Practices: 95/100
- SEO: 98/100

3.3 Cross-Browser Testing

- Chrome: Fully functional
- Edge: Fully functional

4. Security Implementation

4.1 Security Measures

- ✓ HTTPS enabled
- ✓ Environment variables secured
- ✓ API keys protected
- ✓ Input validation implemented
- ✓ XSS protection active

4.2 Security Testing Results

- Input validation testing: Passed
- API security testing: Passed
- Authentication testing: Passed

6. Deployment Instructions

6.1 Local Development

bash

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```
# Install dependencies  
npm install  
# Set up environment variables  
cp .env.example .env.local  
# Run development server  
npm run dev
```

6.2 Staging Deployment

bash

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```
# Push to staging branch  
git push origin staging  
# Vercel will automatically deploy to staging environment
```

8. Performance Optimization Measures

- Implemented image optimization
- Enabled caching strategies
- Minimized JavaScript bundles
- Optimized API calls
- Implemented lazy loading