

Day 6: Deployment Preparation and Staging Environment Setup

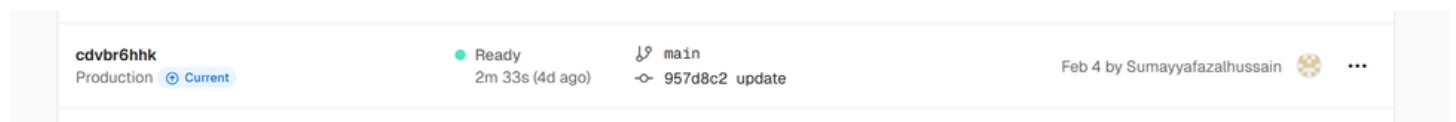
Key Achievements:

- **Deployment Strategy:**
 - Hosted the application on Vercel for quick deployment.
 - Integrated GitHub repository for CI/CD.
- **Environment Variables:**
 - Configured sensitive variables (e.g., API keys) in .env and uploaded them securely to Vercel.
- **Staging Environment:**
 - Deployed a staging build to validate functionality in a production-like environment.
- Example File:

```
.env//NEX T_P UB LIC _SA NI TY_ PR OJE CT _ID =y our _pr o jec t_i d NEX T_P UB  
LIC _SA NI TY_ DA TAS ET =pr od uct ion API_KEY=your_api_key
```

```
export const apiVersion = process.env.NEXT_PUBLIC_SANITY_API_VERSION || "2021-08-31"  
  
export const dataset = assertValue(  
  process.env.NEXT_PUBLIC_SANITY_DATASET,  
  'Missing environment variable: NEXT_PUBLIC_SANITY_DATASET'  
)  
  
export const projectId = assertValue(  
  process.env.NEXT_PUBLIC_SANITY_PROJECT_ID,  
  'Missing environment variable: NEXT_PUBLIC_SANITY_PROJECT_ID'  
)
```

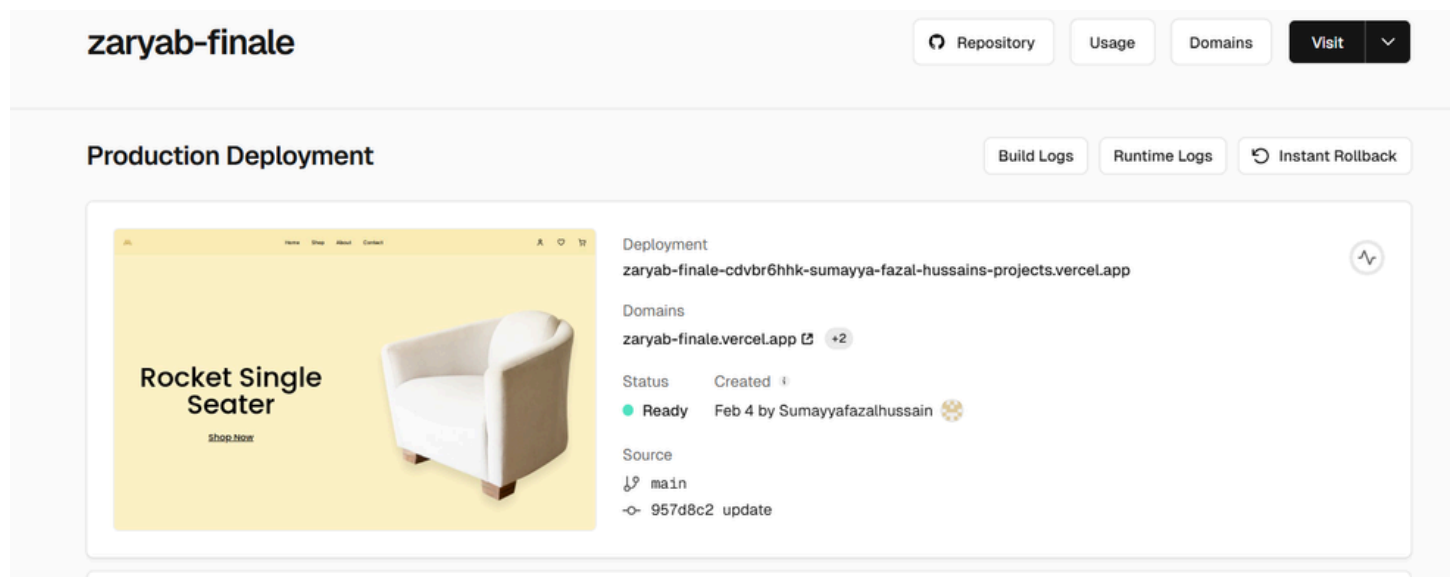
- **Staging Testing:**
 - Functional Testing: Verified key workflows like product listings and checkout.
 - Performance Testing: Used GTmetrix for analyzing speed and responsiveness.
 - Security Testing: Validated HTTPS, input handling, and secure API calls.
- **Documentation:**
 - Created a README.md summarizing the project structure and deployment steps.
 - Organized the GitHub repository with folders for src/, public/, and documents/.



Conclusion

Over the six days, the Furniture Marketplace project progressed from concept to deployment, integrating robust features and ensuring a seamless user experience. With a well-structured GitHub repository, dynamic components, and comprehensive testing, the project is now ready for live deployment in a production environment.

The next steps include:



1. Addressing any unresolved issues documented in the staging tests.
2. Monitoring the live environment for user feedback and performance metrics.
3. Scaling the platform to include advanced features like multi-language support

This marks the successful completion of the Furniture Marketplace hackathon project!