

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*:

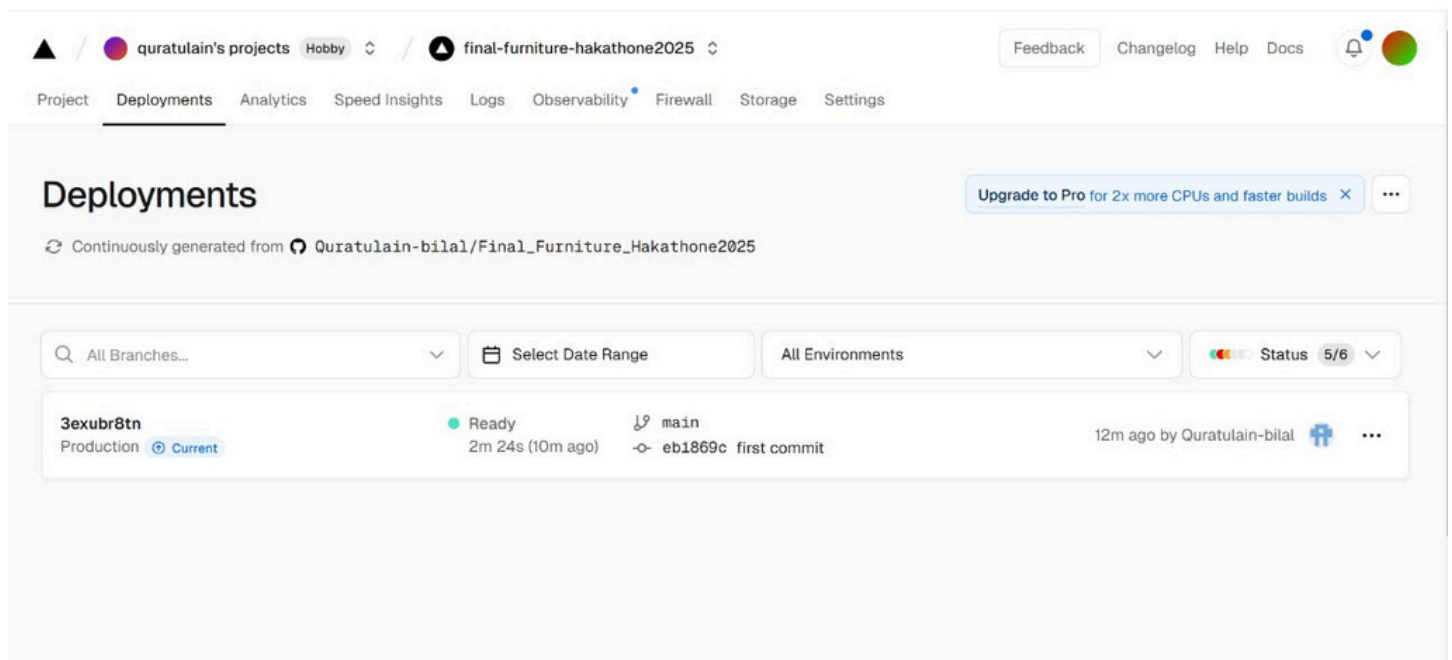
```
.env//NEXT_PUBLIC_SANITY_PROJECT_ID=your_project_id NEXT_PUBLIC_SANITY_DATASET=production API_KEY=your_api_key
```

```
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'
)
```

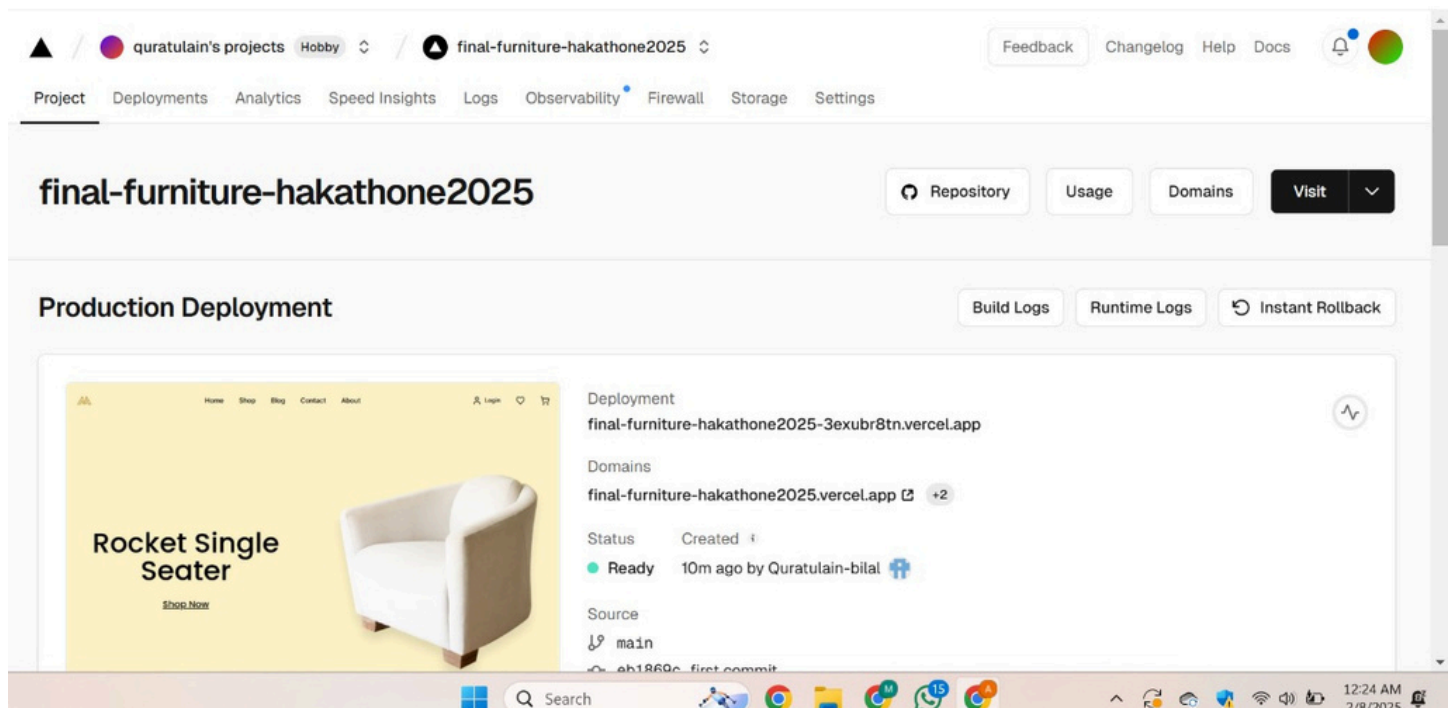
- **Staging Testing:**
 - Functional Testing: Verified key workflows like product listings and checkout.
 - Performance Testing: Used GTmetrix for analyzing speed and responsiveness.
 - Security Testing: Validated HTTPS, input handling, and secure API calls.
- **Documentation:**
 - Created a README.md 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!