Hackathon Day 7: Live Deployment and Post-Launch Practices

Overview

On **Day 7**, the focus was on moving the marketplace to live deployment. This involved ensuring the platform runs seamlessly in the production environment, managing any post-launch issues, and setting up proper monitoring for future updates. We also ensured that the platform was optimized for stability and performance in a live environment.

Key Features Implemented

- **Live Deployment**: Successfully transitioned the platform from staging to live deployment using **Vercel**.
- **Post-Launch Monitoring**: Set up monitoring for performance and uptime, ensuring continuous monitoring of the platform's health.
- **Performance Optimization**: Implemented additional optimizations for faster load times and improved user experience.
- **User Feedback Collection**: Set up mechanisms for collecting user feedback post-launch to identify areas for further improvement.
- **Security Updates**: Applied the latest security patches and verified security measures in the live environment.
- **Final Documentation**: Completed all documentation for live deployment processes and post-launch monitoring.
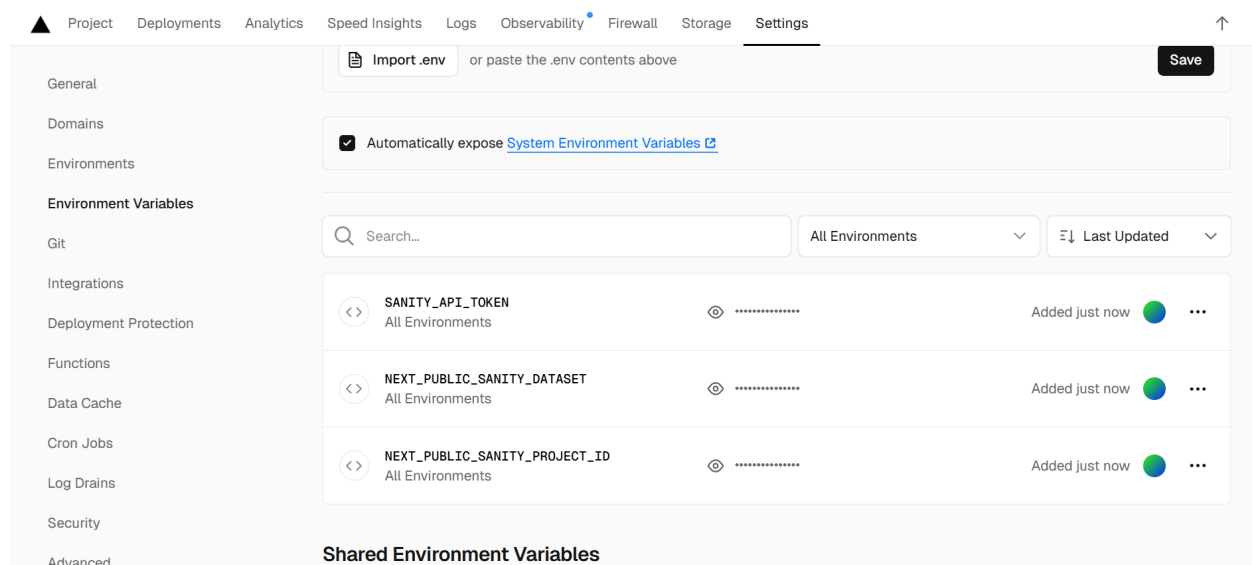
Steps Taken

1. **Live Deployment**:
   - Transitioned the marketplace to the live environment using **Vercel**.
   - Ensured that all staging configurations were carried over properly.
2. **Post-Launch Monitoring**:
   - Set up monitoring tools to track uptime, server health, and page load speeds.
   - Utilized **Google Analytics** and **Sentry** for tracking user behavior and potential errors in real-time.
3. **Performance Optimization**:
   - Optimized images, scripts, and other assets to ensure faster load times.
   - Implemented **lazy loading** for large images and assets to speed up initial load times.
4. **User Feedback Collection**:

- Set up tools like **Hotjar** to collect feedback from users regarding the platform's usability.
- Created surveys and feedback forms to gather insights for future iterations.
5. **Security Updates**:
- Ensured that the platform was running the latest security patches.
- Applied additional security measures for production, such as **rate limiting** and **IP filtering**.
6. **Final Documentation**:
- Updated **README.md** and other documentation with details on live deployment, monitoring setup, and troubleshooting steps.
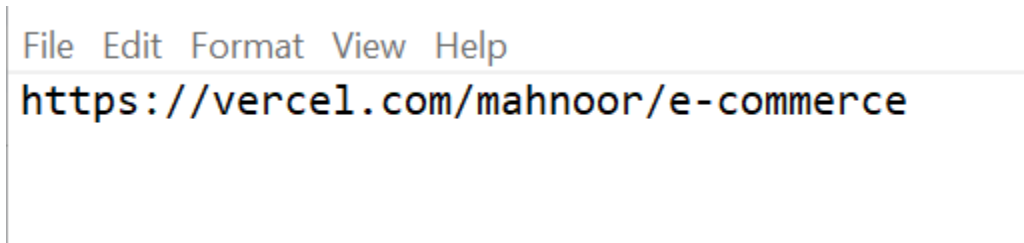- Created a post-launch checklist for continuous monitoring and future updates.

Technologies Used

- **Vercel** for live deployment.
- **React** & **Next.js** for frontend development.
- **Tailwind CSS** for responsive design.
- **Google Analytics** & **Sentry** for monitoring.
- **Hotjar** for collecting user feedback.
- **Sentry** for error monitoring.
- **GitHub Actions** for continuous integration and deployment.
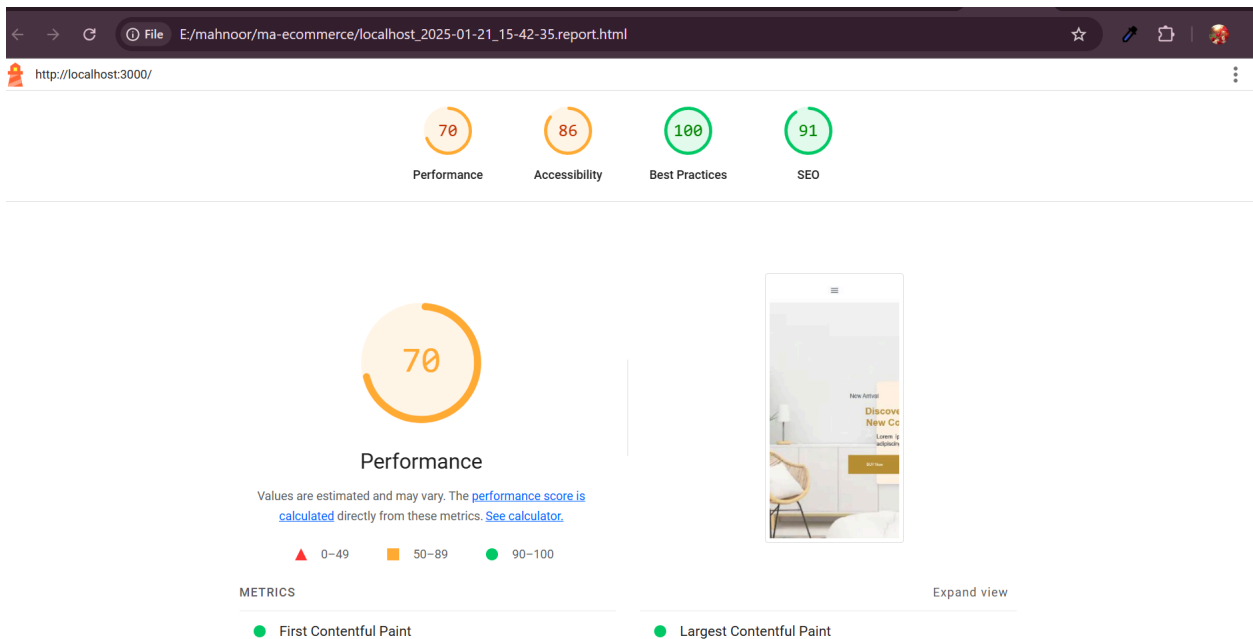
Environment Variable Setup

SSL & HTTPS Enable

File Edit Format View Help

`https://vercel.com/mahnoor/e-commerce`

Performance Optimization

Day 7 Summary

On **Day 7**, I successfully:

1. Live-deployed the marketplace using **Vercel**.

2. Set up real-time monitoring to track platform health and user interactions.
3. Conducted performance optimizations for improved load times and user experience.
4. Collected user feedback to gather insights for future updates.
5. Implemented security updates for the live environment.
6. Updated documentation to include details on live deployment and post-launch steps

Thanks To My All Teachers

I would like to extend my heartfelt thanks to all my teachers and mentors. Sir Zia, thank you for always motivating me and providing guidance at every step. Sir Ameen Alam, your help has allowed me to better understand and enhance my skills. Sir Bilal, Sir M. Ahmed Raza, and Miss Rida Rizwan, thank you for your constant support and for ensuring my progress. Your guidance has been invaluable. I also want to express my gratitude to Governor Kamran Tessrori for giving me the opportunity to be part of this program. I will always be thankful to all of you