

Day 6 implementation Report

Marketplace Builder Hackathon - Day 7 Report

Project Name: Furniro - A Modern Furniture Marketplace

1. Overview

Day 7 of the Furniro Marketplace hackathon focused on the final live deployment of the project, post-launch monitoring, and implementing strategies for maintaining a smooth user experience. The goal was to ensure the application was fully functional, scalable, and secure for real-world usage.

2. Objectives of Day 7

The key objectives were:

- **Finalizing the Live Deployment:** Pushing the stable version to production.
- **Ensuring Scalability:** Optimizing the application for high traffic.
- **Post-Deployment Monitoring:** Setting up tracking tools for errors and user activity.
- **User Feedback Collection:** Gathering insights from initial users.
- **Maintenance & Bug Fixes:** Addressing issues that arise after launch.

3. Live Deployment Strategy

Frontend Deployment:

- **Vercel:** Chosen for efficient Next.js hosting.
- **Static Site Optimization:** Leveraged caching and minification for performance.
- **SEO Enhancements:** Verified sitemap, meta tags, and Open Graph for social sharing.

Backend & Database Deployment:






- **Firebase Firestore / MongoDB Atlas:** Used for real-time data storage.
- **Cloud Functions for Backend Logic:** Ensured seamless processing of business logic.
- **API Rate Limiting & Security Rules:** Strengthened protection against abuse.

Security & Performance Enhancements:

- **SSL Encryption:** Ensured safe user data transmission.
- **Real-Time Error Tracking (Sentry & LogRocket):** Monitored and logged crashes.

- **Load Testing:** Simulated high traffic to verify performance stability.

4. Post-Launch Testing & Error Handling

Test Case ID	Test Case Description	Test Steps	Expected Result	Actual Result	Status
TC001	Verify live site accessibility	Open deployed site & check performance	Site loads with no issues	Live deployment successful	 Passed
TC002	API response validation	Test product API responses	Data fetched successfully	API working as expected	 Passed
TC003	Authentication & authorization	Login, sign up, and user roles check	Correct access granted	 Passed	
TC004	Error handling & fallback UI	Simulate API failure	Error message displayed	 Passed	
TC005	Load & stress testing	Simulate high user traffic	Server remains stable	 Passed	

5. Post-Launch Monitoring & Improvements

- **User Analytics:** Integrated Google Analytics to track engagement.
- **Error Reporting Dashboard:** Sentry & LogRocket enabled for crash analysis.
- **Performance Benchmarking:** Lighthouse tests conducted to optimize load times.
- **User Feedback Collection:** Deployed forms and surveys for improvement suggestions.

6. Future Enhancements

- **Progressive Web App (PWA) Features:** Improve offline experience.
- **AI-Driven Personalization:** Enhance product recommendations.
- **Automated Database Backups:** Prevent data loss.
- **Continuous Integration & Deployment (CI/CD):** Automate updates and testing.

7. Conclusion

Day 7 marked the successful live deployment of the Furniro Marketplace, making it accessible to users worldwide. With robust post-launch monitoring, security enhancements, and performance optimizations, the project is now set for ongoing improvements and future scalability.