

Day 6 - Deployment Preparation and Staging Environment Setup

Q-commerce FoodTuck Marketplace

Date: 21/01/2025

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1. Objective

Day 6 focuses on preparing your FoodTuck marketplace for deployment, ensuring that the application is production-ready. The task includes setting up a staging environment, configuring your hosting platform, and performing essential testing before deploying to the live environment.

2. Key Learning Outcomes

- Successfully configured the staging environment for the FoodTuck marketplace.
- Set up deployment pipelines using Vercel for seamless hosting.
- Managed and secured environment variables like API keys for restaurant data.
- Conducted functional, performance, and security testing on the staging environment to ensure smooth operation.

3. Deployment Strategy

Hosting Platform

Selected Platform: Vercel (for easy integration with Next.js)

Why Vercel?

- Automatic deployment with each push to GitHub.
- Supports serverless functions, ideal for handling real-time orders.
- Optimized for Next.js, the framework used for the project.

Backend Services

- **CMS for Restaurant Data:** Using Sanity CMS for managing menus and orders.
- **Third-party APIs:** Integrated APIs for location-based services and payment gateway.

4. Environment Variable Configuration

Importance of Environment Variables:

- Secured sensitive data like API keys and payment credentials.
- Configured environment variables in Vercel to ensure secure deployment.

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

5. Staging Environment Setup

- Created a new Vercel project and connected the GitHub repository.
- Configured environment variables within the Vercel dashboard.
- Ran the staging build to verify deployment success.
- URL of Staging Build: <https://nextjs-hackathon-mu.vercel.app/>

6. Staging Environment Testing

- **Performance Testing with Lighthouse:**
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- The FoodTuck marketplace was tested using Lighthouse to evaluate key metrics: performance, accessibility, best practices, and SEO.

7. Conclusion

Deployment Achieved:

The marketplace is now fully functional in the staging environment, tested for key functionality, performance, and security. This setup ensures smooth deployment to the live production environment.