

Non-Functional Requirements (NFR) — Sprint 3

Project Name: Ohama Land

Iteration: Sprint 3

Date: March 21, 2025

Top 3 Prioritized NFRs

1. Security

Category: Security

Why we prioritized it:

Security is a top priority due to the sensitive nature of user data being handled, especially login credentials, billing information, and receipts. We implemented **JWT-based authentication**, enforced **password strength**, **role-based access control (RBAC)**, and ensured **CSRF and XSS protection** through Django and React best practices. Security was essential to ensure trust and compliance for our users.

2. Usability

Category: Usability

Why we prioritized it:

As the application matures, ensuring an intuitive and user-friendly interface is critical to user satisfaction and retention. We overhauled the UI for **login/signup**, improved **dialog components**, and ensured **responsive design** across devices. This focus was based on early user feedback and the desire to present a polished, professional product during demos and evaluations.

3. Performance

Category: Performance

Why we prioritized it:

With real-time updates (e.g., graphs and analytics), OCR processing, and dynamic receipt calculations, ensuring fast and responsive interactions was key. We need targeted **response time**, optimized data fetching, and reduced UI rendering delays. Performance is vital to support smooth real-time user interaction and efficient backend operations.

Trade-offs Made

1. Accessibility Deferred

Why we made this trade-off:

While accessibility is important for long-term inclusivity, our team made a conscious decision to

defer advanced accessibility implementations (e.g., screen reader support).

Benefits:

- Focused current efforts on developing and securing core features
- Ensured a smoother demo experience for mainstream users
- Accessibility can be layered on top once primary systems are stable

2. Reduced Automated Testing Coverage

Why we made this trade-off:

To deliver more high-impact features quickly, we chose to rely more on manual testing and limited automated tests in Sprint 3. Writing comprehensive test suites for each endpoint and UI feature was time-intensive and would have delayed critical deliverables.

Benefits:

- Faster development velocity
- Allowed rapid iteration and code review
- Manual testing and code reviews helped catch major bugs during development