

Product Requirements Document

Problem Statement 1: Product Requirement and Low-Fidelity Wireframes

Overview:

The product is designed to scan container images in a repository and provide visibility into known vulnerabilities across thousands of container images. This helps security teams prioritize remediation based on severity.

User Goals:

- View all container images and their vulnerability status.
- Identify images with high or critical vulnerabilities.
- Filter/sort images by severity or name.
- Take action on affected images.

Core Features:

- Dashboard with summary cards (total scanned, vulnerable, critical).
- Table view of image scan results (name, date, severity count).
- Filters for image name and severity.
- Search functionality.

User Stories:

- As a security engineer, I want to see a list of images with vulnerabilities, so I can take action.
- As a devops engineer, I want to filter by 'critical' severity, so I can fix urgent issues first.

Data Elements:

- Image Name
- Scan Timestamp
- Vulnerability Count (by severity: Critical, High, Medium, Low)
- Fix Available (Yes/No)

Development Action Items:

- Build scan result ingestion service (backend)
- Create API to fetch vulnerability data with filters

- Design UI components: summary cards, table, filters
- Connect frontend with backend API

