

Product Requirements Document

Title:

Container Image Vulnerability Scanner

Problem:

- Users have thousands of container images.
- Some images have security problems (vulnerabilities).
- Users want to know which images have problems.
- Users want to know how serious the problems are (Critical, High, etc.).
- Users want to fix the serious problems first.

Goal:

- Create a simple tool that:
 - Scans container images
 - Shows problems clearly
 - Helps users fix them

Users:

- People working in IT or DevOps
- People who manage containers and want to keep them secure

Features:

- Show a list of all images
- Show how many vulnerabilities each image has
- Show how serious those problems are (Critical, High, Medium, Low)
- Let users search or filter images
- Let users click on an image to see more details
- Show suggestions to fix the problem (if possible)

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Screens (Wireframe Ideas):

- Home Page:
 - List of images with counts (Image Name, Critical, High, Medium)
 - Filter buttons: Critical, High, Medium
- Details Page:
 - List of problems (CVE ID, affected component, fix suggestion)

Extra (Optional):

- Developers can use tools like Trivy or Clair to scan images
- Frontend can show results from these tools