

pi_Sage – Core Feature List

MVP Features (Research Phase – Assignment 5)

1. Network Scanning via Nmap

- Integrate Nmap in the backend to scan a given IP or subnet.
- Capture details such as open ports, protocols, and detected services.

2. API Integration (Node.js Backend)

- **POST /scan** – Initiate a new scan with user-defined parameters.
- **GET /scans** – Retrieve a list of previous scans.
- **GET /scan/:id** – Retrieve the details of a specific scan.
- Parse Nmap results into structured JSON.
- Store results in a MySQL database.

3. Web-Based Dashboard (Vue.js Frontend)

- Trigger scans through a basic web interface.
- Display recent scan results in a readable format (table or list).
- Include basic filters (IP, port, time, risk level).

4. Dockerized Deployment

- Fully containerized setup using Docker Compose.
- Separate containers for:
 - Frontend (Vue.js)
 - Backend (Node.js + Nmap)
 - Database (MySQL)
- Easily deployable on Linux or Raspberry Pi.