PRODUCT REQUIREMENTS DOCUMENT

PORT SCAN RESULTS SAVE AND VIEW TOOL

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1. ENTRANCE

- **Project Name:** Port Scan Results Save and View Tool.
- **Aim:** Storing the results obtained by performing N port scanning on the target IP entered by the user in the system and presenting them visually via the web interface.
- **Target Group:** Cybersecurity experts, network administrators, IT professionals, penetration testers.

2. GOALS

- Ensuring port scanning.
- Keeping the results in the database.
- To provide the user with the ability to view past scans.
- Providing easy analysis with filtering and sorting features.
- User managment and login system.

3. FUNCTIONAL REQUIREMENTS

3.1 Scanning Module

- The user should be able to start a scan by entering an IP address or domain.
- Port range should be selectable.
- Open/closed ports should be listed as a results of the scan.
- The following information should be kept for each scan:
    - Target IP/domain
    - Scan date/time
    - Scanning time
    - Open ports.

3.2 Interface Module

- Previous scans should be listed on the home page.
- Every scan must have a detail page.
- A new screening initiation form must be submitted.

3.3 User Module

- User registration/login system.
- Each user should be able to see their own scans.
- Manage all data from the admin paanel.

4. NON-FUNCTIONAL REQUIREMENTS

- **Security:** Logged in users should only be able to see their own data.
- **Availability:** The interface should be simple and understandable.
- **Database:** Results should be stored efficiently using Django ORM.

5. TIMELINE

History	Stage
1. Week	Project planning, PRD and ERD preparation
2. Week	Create a Django project
3. Week	Creating a registration and login system
4. Week	Scanning module and data logging
5. Week	Interface development
6. Week	Tests and bug fixes

6. SUCCESS CRITERIA

- Users should be able to succesfully initiate a port scan.
- Results must be recorded and displayed accurately.
- The system should be able to handle multiple scans without crashing.
- The developed system should be published as open source.