**SafetyHome - Smart device security hub**

SE-B-12

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Smart-home technologies improve quality of life but expose users to cyber threats due to a lack of awareness and technical knowledge. SafetyHome is a mobile application that connects to the home network, scans all connected devices, identifies those belonging to the smart-home environment, and detects security vulnerabilities through integration with the official CVE database, which is continuously updated to reflect the latest threats. The system uses Nmap and ARP scanning to map the network, classifies each device by type and risk level, and presents alerts with actionable recommendations—including changing passwords, updating firmware, or strengthening security settings. The solution provides simple, accessible, and effective protection for smart-home users without requiring technical skills or additional hardware.

Keywords: ARP scanning; CVE; firmware; IoT devices; network scanning; security vulnerabilities; smart home