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What is SecureScan?

Our project is a web-based malware detection platform designed to help users identify and address potential security threats. Users can submit suspicious links or upload files for analysis, and the platform will conduct URL checks for malicious patterns.

Problem Statement

With phishing and more targeted scams on the rise, we developed a safe zone where users can scan suspected URLs or files without concern of the health of their devices. SecureScan provides users with comprehensive reports on their submissions as well as information on best practices.

Acknowledgments

Our team would like to thank Dr. Peiper for his guidance during the course of our project.

Objectives

- **Safe Scanning:** Let users submit URLs or files without exposing their system to risk.
- **Smart Reporting:** Deliver actionable threat analysis using tools like VirusTotal and Google Safe Browsing.
- **Cybersecurity Education:** Teach users how to recognize digital threats through tutorials and interactive modules.
- **User Trust:** Handle sensitive data securely with proper encryption and API key management.

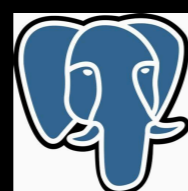
Use Case

- **Everyday User Safety:** Scan unknown links from texts, emails, or websites.
- **Student Learning Tool:** For cybersecurity education in K-12 or college.
- **Workplace Training:** A simulation module for onboarding or employee security training.

Technologies Used

Front-end

- HTML
- CSS
- JavaScript



Back-end

- Node.js/Express
- PostgreSQL
- VirusTotal API

