



Faculty of Engineering Science & Technology

ABSTRACT

This project presents a lightweight, offline antivirus tool developed for Windows systems. It combines signature-based detection with Al-assisted behavioral analysis to identify and manage threats effectively. Designed with modularity and transparency, the tool allows users to scan directories, receive alerts, and quarantine or remove malicious files. As an open-source product, it lays a foundation for future enhancements while remaining accessible for use and further development.

INTRODUCTION

- Lightweight, offline antivirus tool for Windows
- Combines signature detection with Al-based analysis
- Focused on user control, modular design, and transparent logging

PROBLEM STATEMENT

- Proprietary antivirus tools limit transparency, flexibility, and affordability
- Freemium solutions restrict access to core features like quarantine and real-time detection
- A gap exists for a modular, offline antivirus with integrated signature and Al-based threat detection

SOLUTION

- Lightweight antivirus tool designed for offline Windows use
 - Detects threats using both signatures and Al-based analysis
- Lets users review, quarantine, or remove threats with full control.



ARCHITECTURE DAIGRAM

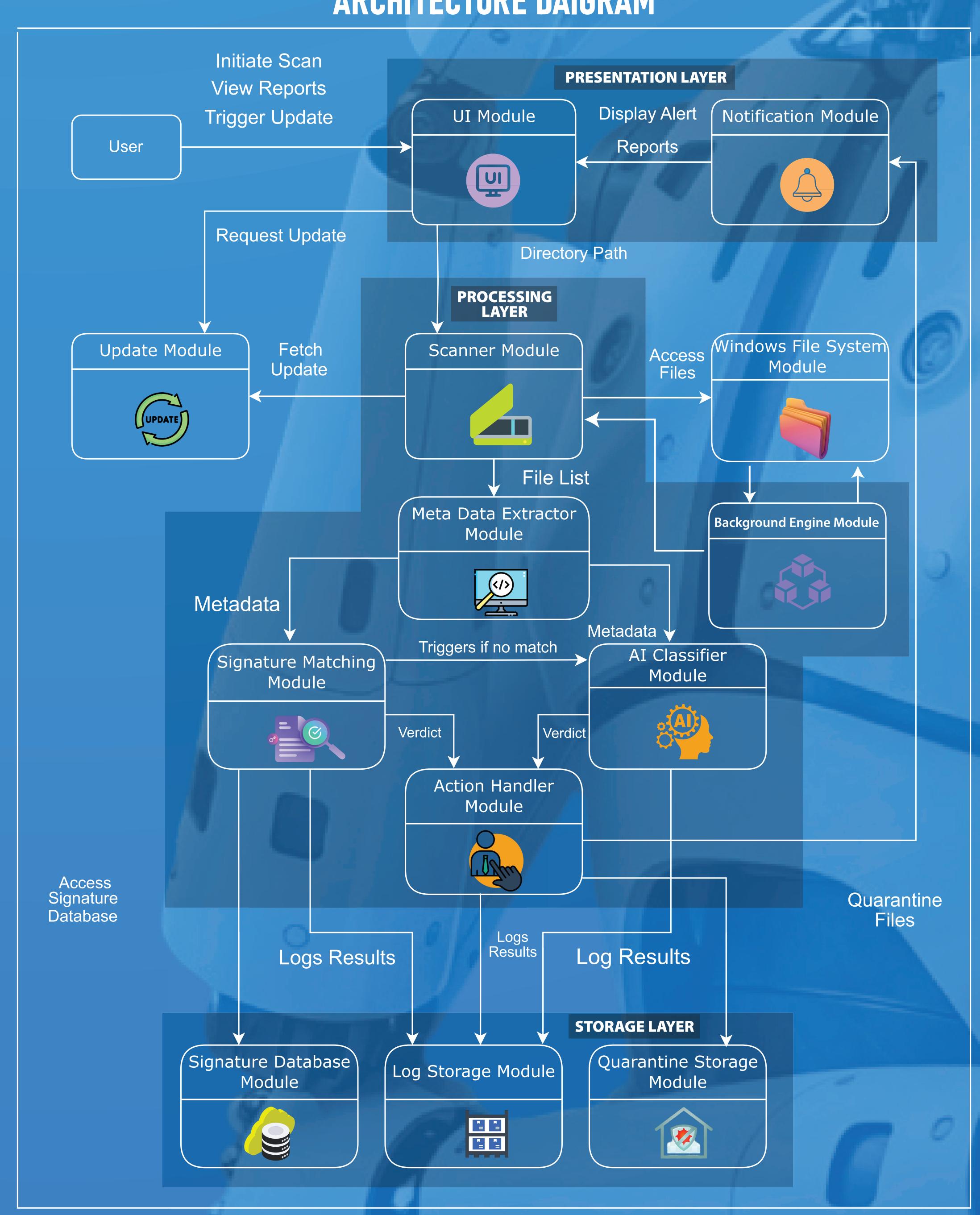


IMAGE USED REFERENCE

https://png.pngtree.com/png-clipart/20240509/original/pntree-ai-robot-thinking-3d-pic-png-i age_15048295.png

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