

PROJECT PROPOSAL

1. Project Title: - Crypto-Jacking Detection Tool

- Project Aim: Develop a robust tool capable of detecting cryptojacking activities in computer systems, networks, and web applications.
 The tool will identify unauthorized cryptocurrency mining processes, mitigate the associated risks, and ensure optimal system performance and security.
- Main parts of project: User Interface, Process Monitoring, Network traffic analysis, Scanning and injection Detection, Comprehensive Reporting.

2. Project Scope: -

1. Crypto-jacking Detection:

• Identify unauthorized CPU or GPU utilization caused by cryptocurrency mining. Detect malicious JavaScript code embedded in web pages.

2. Performance and Security Monitoring:

• Ensure minimal system performance degradation by managing cryptojacking threats. Prevent sensitive information leakage through mining activities.

3. Scalability and Versatility:

• Design the tool to handle individual systems, enterprise networks, and cloud environments.

4. User Education and Awareness:

• Incorporate alert mechanisms and educational resources to help users identify and prevent crypto-jacking threats.

5. Compliance and Security:

• Adhere to industry standards and privacy laws in data handling and



threat analysis.

6. Continuous Updates:

• Regularly update detection algorithms and threat intelligence databases to adapt to emerging crypto-jacking methods.

3. Requirements:-

• Hardware Requirements:

- **Processor:** Modern multi-core processor with virtualization support.
- Memory (RAM): Minimum 4 GB (8 GB recommended).
- **Storage:** 10 GB for installation and logs.
- Network Interface: Stable internet connection.

• Software Requirements:

- Windows 10/11.
- Programming Languages and Libraries:
 - Python 3.x (main programming language).
 - **Libraries:** pyQt5, socket, psutil, subprocess, time, threading etc.
- **Database:** SQLite, MySQL, or PostgreSQL (optional).
- Development Tools: PyCharm, Visual Studio Code.

STUDENTS DETAILS

Name	UID	Signature
Rishi	21BCS11879	
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APPROVAL AND AUTHORITY TO PROCEED

We approve the project as described above, and authorize the team to proceed.

Name	Employee ID	Signature(With Date)
Ms. Gurpreet Kaur	E16578	

