

Basic Details of the Team and Problem Statement

PSID: KVH-004

Problem Statement Title: Phishing Detection Solution

Team Name: White Hatters

Team Leader Name: Nithesh R

Institute Code (AISHE):

Institute Name: Kongu Engineering College

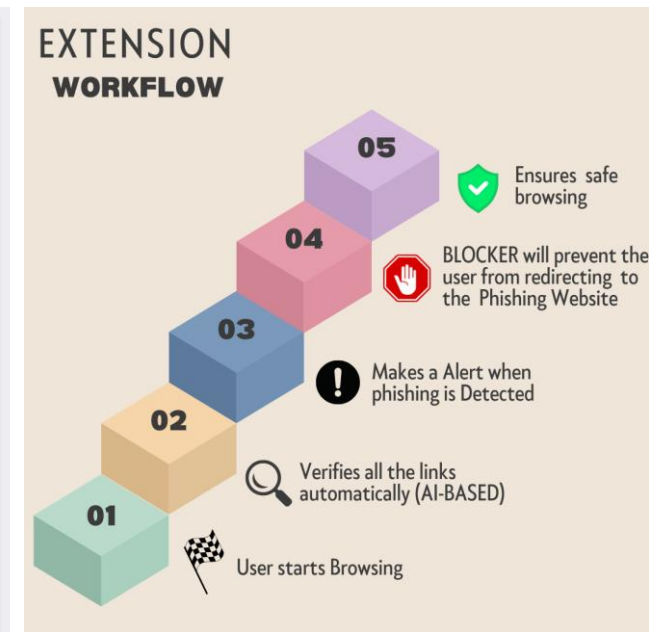
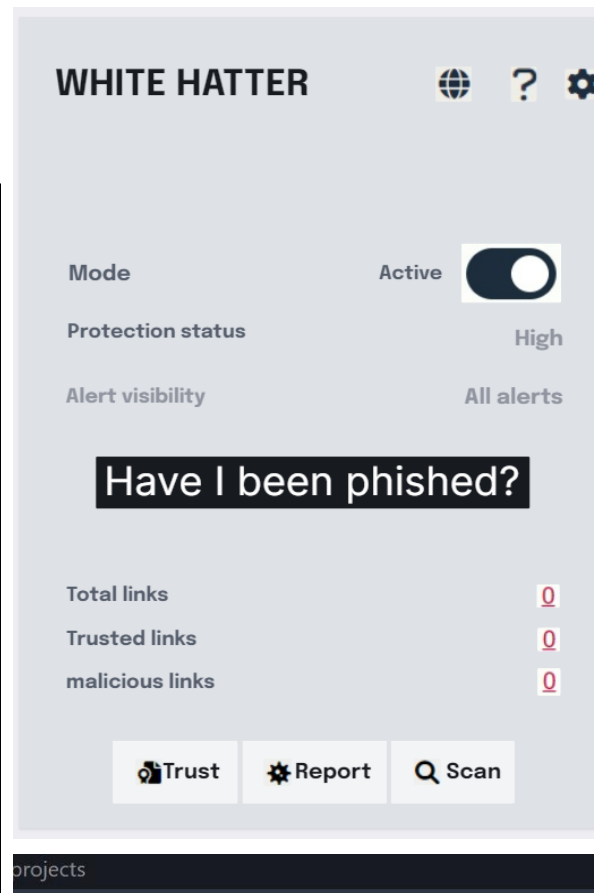
Idea/Approach Details

Describe your idea/Solution/Prototype here:

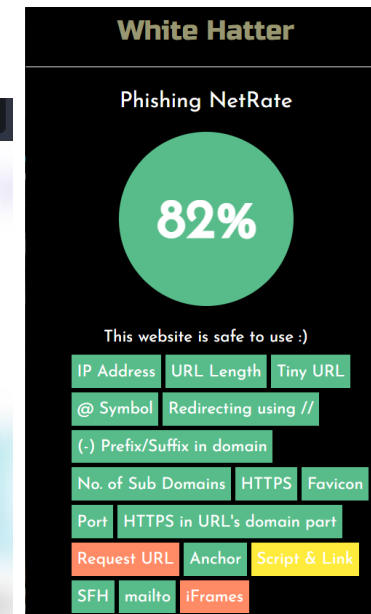
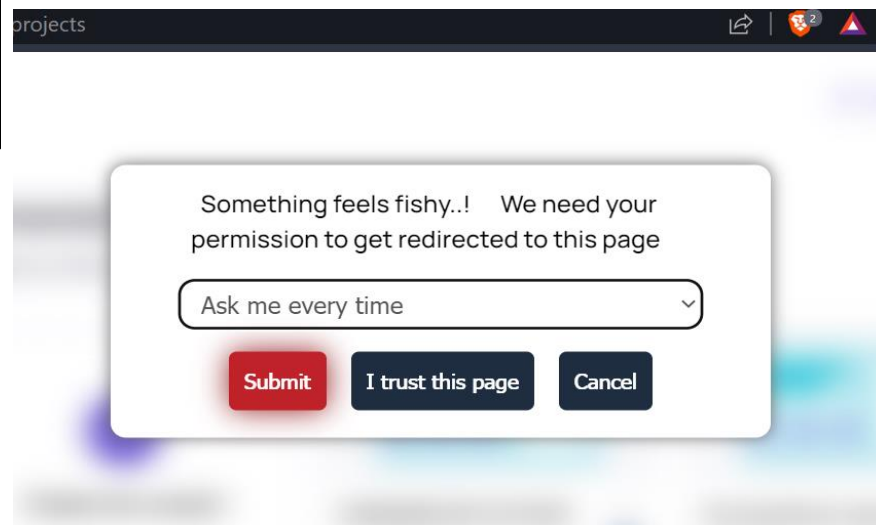
- Phishing (A way of stealing user data in a unauthorized way) which is malicious and dangerous to user hardware & Software too.
- A browser extension is developed for detecting the malicious URL and mails from webpage.
- All the links will be checked automatically for phishing website by the extension which will Prevent the user from redirecting to the malicious website.
- A new feature called BLOCKER available inside the extension will identify and automatically block the phishing website when the user clicked on it.
- The developed extension will be supported for all the Browsers.

Technology stack here:

- Python
- Machine learning Models and classifiers
- HTML, CSS
- Javascript



FRONT-END FLOW



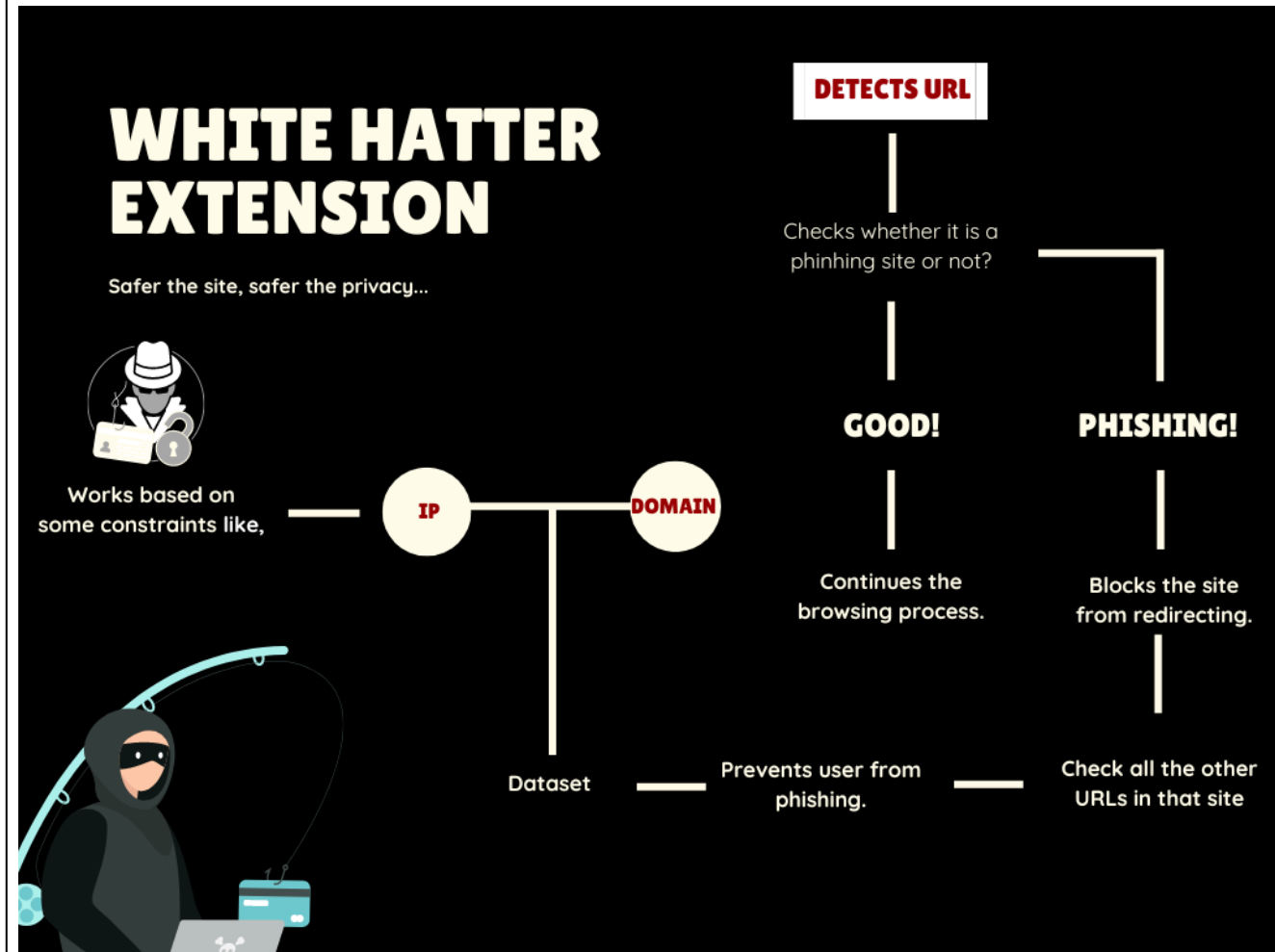
Idea/Approach Details

Use Cases

- Malicious URL's and Links from web page can be prevented by using proposed browser extension
- All the links opened in the browser with this extension will be checked for phishing
- If the link is identified as phishing, BLOCKER will alert the user without redirecting to that particular site
- Email phishing can also be identified by this extension if the user opens mailbox.
- The proposed method of identification provides user friendly Interface.
- Based on the phishing constraints, the percentage of phishing can also be identified in the extension.

Show stopper

- Still we are working to find a solution to track down the Phisher.



Team Member Details

Sr. No.	Name of Team Member	Branch (Btech/Mtech/Ph D etc):	Stream (ECE, CSE etc):	Year	Position in team (Team Leader, Front end Developer, Back end Developer, Full Stack, Data base management etc.)
1	Nithesh R	21CSR130	CSE	II	Team Leader
2	Sakiram G	21CSR172	CSE	II	Front end
3	Prasanth T	21CSL269	CSE	II	Database
4	Vimal M	21CSR241	CSE	II	Full Stack
5	Prem Sundar G	21CSR148	CSE	II	Back end
6	Sharvithaa D	21CSR186	CSE	II	Front end

Team Mentor/s Details

Sr. No.	Name of Mentor	Category (Academic/Industry):	Expertise (AI/ML/Blockchain etc):	Domain Experience (in Years)
1	Ms. Deepa D	Academic	Deep Learning	10 Years
2	Dr. Vani Rajasekar	Academic	Deep Learning	7 Years