WEB PHISHING DETECTION

Literature Survey On The Selected Project & Information Gathering

In this activity you are expected to gather/collect the relevant information on project use case, refer the existing solutions, technical papers, research publications etc.

H. Huang et al., (2009) proposed the frameworks that distinguish the phishing utilizing page section similitude that breaks down universal resource locator tokens to create forecast preciseness phishing pages normally keep its CSS vogue like their objective pages.

S. Marchal et al., (2017) proposed this technique to differentiate Phishing website depends on the examination of authentic site server log knowledge. An application Off-the- Hook application or identification of phishing website. Free, displays a couple of outstanding properties together with high preciseness, whole autonomy, and nice language-freedom, speed of selection, flexibility to dynamic phish and flexibility to advancement in phishing ways.

Mustafa Aydin et al. proposed a classification algorithm for phishing website detection by extracting websites' URL features and analyzing subset based feature selection methods. It implements feature extraction and selection methods for the detection of phishing websites. The extracted features about the URL of the pages and composed feature matrix are categorized into five different analyses as Alpha-numeric Character Analysis, Keyword Analysis, Security Analysis, Domain Identity Analysis and Rank Based Analysis. Most of these features are the textual properties of the URL itself and others based on third parties services.

Samuel Marchal et al. presents PhishStorm, an automated phishing detection system that can analyze in real time any URL in order to identify potential phishing sites. Phish storm is proposed as an automated real-time URL phishingness rating system to protect users against phishing content. PhishStorm provides phishingness score for URL and can act as a Website reputation rating system.

Fadi Thabtah et al. experimentally compared large numbers of ML techniques on real phishing datasets and with respect to different metrics. The purpose of the

comparison is to reveal the advantages and disadvantages of ML predictive models and to show their actual performance when it comes to phishing attacks. The experimental results show that Covering approach models are more appropriate as anti- phishing solutions.

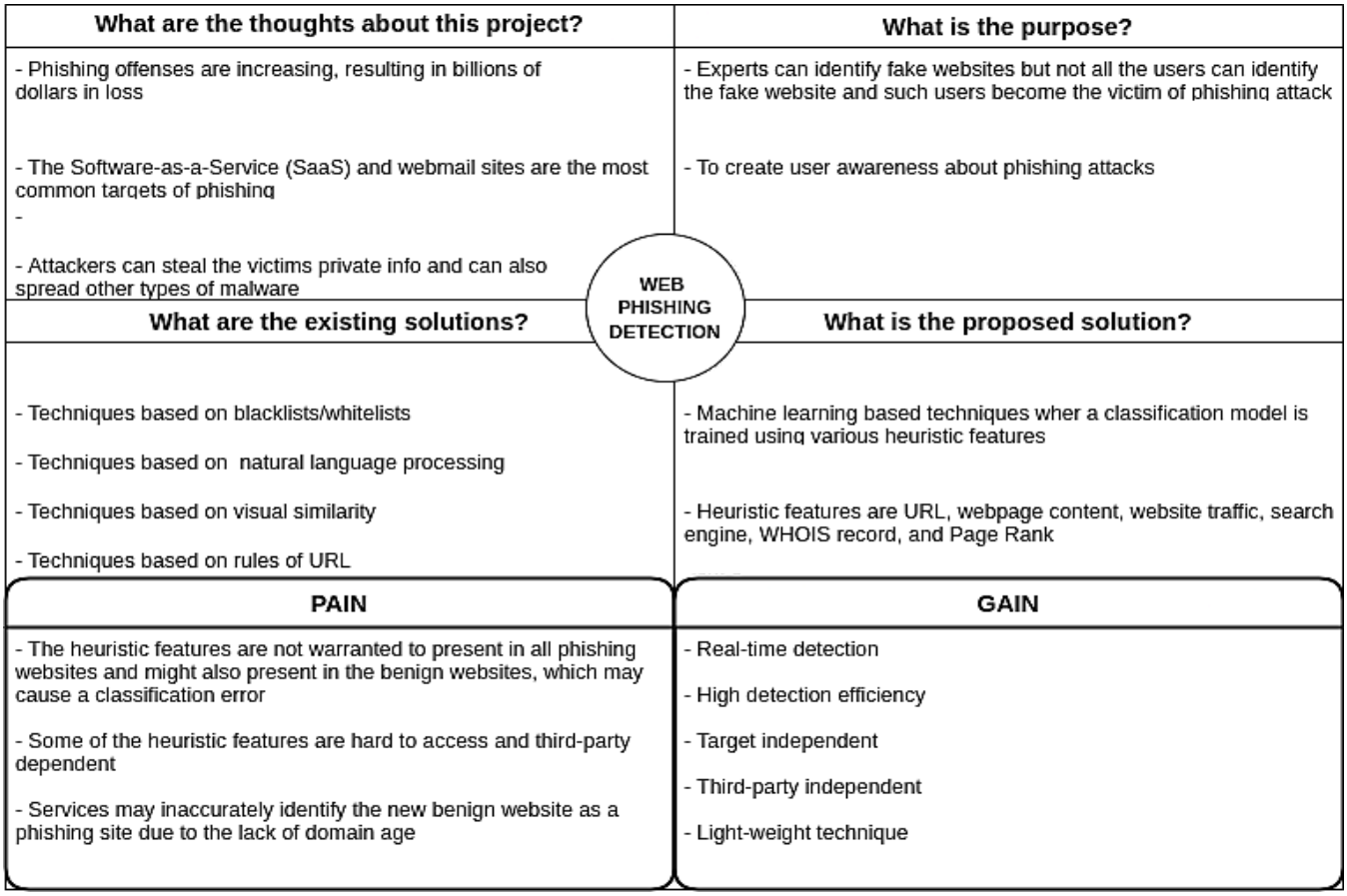
Muhemmet Baykara et al. proposed an application which is known as Anti Phishing Simulator, it gives information about the detection problem of phishing and how to detect phishing emails. Spam emails are added to the database by Bayesian algorithm.

Wang et al., Jain and Gupta and Han et al.use white list-based method for the detection of suspected URL. Blacklist-based methods are widely used in openly available anti-phishing toolbars, such as Google safe browsing, which maintains a blacklist of URLs and provides warnings to users once a URL is considered as phishing. Prakash et al. proposed a technique to predict phishing URLs called Phishnet. In this technique, phishing URLs are identified from the existing blacklisted URLs using the directory structure, equivalent IP address, and brand name.

Felegyhazi et al. developed a method that compares the domain name and name server information of new suspicious URLs to the information of blacklisted URLs for the classification process. Sheng et al. demonstrated that a forged domain was added to the blacklist after a considerable amount of time, and approximately 50–80% of the forged domains were appended after the attack was carried out.

Prepare Empathy Map

In this activity you are expected to prepare the empathy map canvas to capture the user Pains & Gains, Prepare list of problem statements.



Ideation

In this activity you are expected to list the ideas (atleast 4 per each team member) by organizing the brainstorming session and prioritize the top 3 ideas based on the feasibility & importance.

- ➤ Use anti-phishing protection and anti-spam software to protect yourself when malicious messages slip through to your computer.
- ➤ Anti-spyware and firewall settings should be used to prevent phishing attacks and users should Protect your mobile phone by setting software to update automatically. These updates could give you critical protection against security threats.

- Protect your data by backing it up. Back up your data and make sure those backups aren't connected to your home network. You can copy your computer files to an external hard drive or cloud storage. Back up the data on your phone, too.
- The website may be used to hack and misuse others detail so to protect that
- Then kids nowdays are learning from online so to protect them from facing any unpleasant or bad activity. So create a extension in google which will detect the fake websites.

TOP 3:

- We would create an interactive and responsive website that will be used to detect whether a website is legitimate or phishing. This website is made using different web designing languages which include HTML, CSS, Javascript and Python.
- It must be noted that the website is created for all users, hence it must be easy to operate with and user-friendly.
- The website will show information regarding the services provided by us. It also contains information regarding ill- practices occurring in todays technological world. The website will be created with an opinion such that people are not only able to distinguish between legitimate and fraudulent website, but also become aware of the mal-practices occrring in current world. They can stay away from the people trying to exploit ones personal information, like email address, password, debit card numbers, credit card details, CVV, bank account numbers.