

**Project Design Phase-I**  
**Proposed Solution Template**

Date	19 September 2022
Team ID	PNT2022TMID08565
Project Name	Web Phishing Detection
Maximum Marks	2 Marks

**Proposed Solution Template:**

Project team shall fill the following information in proposed solution template.

S. No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Phishing is a form of attack where the hackers/attackers try to get the user's sensitive information by posing as a reputable source. Nowadays the attackers use the trusted domain identity to trap the users and gain the user's sensitive information.
2.	Idea / Solution description	To solve this problem we Identify, block and target the Phishing and ransomware by using Classification algorithm to classify the real URLs and fake URLs to prevent the user's information leakage by acknowledging them beforehand.
3.	Novelty / Uniqueness	In this project, we check the <ul style="list-style-type: none"><li>• URLs as well as the domain name for better identification of the phishing attacks.</li><li>• Digit count in the URL, Total length of URL</li><li>• Whether the URL is Typo squatted or not (google.com → goggle.com)</li><li>• Whether it includes a legitimate brand name or not (apple-icloud-login.com)</li><li>• Number of subdomains in URL, Is Top Level Domain (TLD) one of the commonly used one.</li><li>• Domain name or its IP address in blacklists of well-known reputation services, how many days passed since the domain was registered, Is the registrant's name hidden?</li></ul>

4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> <li>• Anti-Phishing protection</li> <li>• Theft prevention</li> <li>• This will provide the security to the user's information by acknowledging them before they are trapped.</li> </ul>
5.	Business Model (Revenue Model)	<p>Phishers steal personal information and financial account details such as usernames and passwords, leaving users vulnerable in the online space.</p> <p>To avoid this kind of situation and also to prevent the theft or damage to the information assets of an organization.</p>
6.	Scalability of the Solution	<ul style="list-style-type: none"> <li>• It provides the Multi-factor Authentication and easy Accessibility</li> <li>• It also improves the safety and prevent from the sabotage</li> </ul>