

Project Design Phase-I
Proposed Solution Template

Date	02 October 2022
Team ID	PNT2022MID12640
Project Name	Project - Web Phishing Detection
Maximum Marks	2 Marks

Proposed Solution Template:

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

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	Many customers use e-banking to pay for their online purchases of goods. Some e-banking websites, for malicious content, request users to submit private information like usernames, passwords, credit card numbers, and more. Phishing websites are this kind of online banking website. One of the most vital software services for communications over the Internet is the web service. One of the many security risks to web services on the Internet is web phishing.
2.	Idea / Solution description	By extracting pertinent features from the target website, conducting feature co-relation, and then passing the information through the C5 classifier, the proposed method aids the user in distinguishing a legitimate website from a malicious one. Using the results obtained safe websites for online transactions are acquired which would then be made accessible to the users through an online application.
3.	Novelty / Uniqueness	The proposed solution uses novel methods to identify relevant features by factoring in attributes like page rank, in-degree, presence of HTTPS token, and others. Through the features obtained, different dataset sizes and distributions are tested for analyzing and detecting optimal hyperparameters.
4.	Social Impact / Customer Satisfaction	The proposed method performs better than numerous other traditional classification algorithms since it uses data mining algorithms. Inherently, users can also buy things online with the aid of this technique without any reluctance or second thoughts about security concerns.
5.	Business Model (Revenue Model)	Micro web frameworks like flask can be used to create a REST-based web application that users may use to conduct reliable and secure online transactions through safe e-commerce websites. Based on membership levels, different levels of security strictness and

		multiple volumes of secure e-commerce websites would be offered.
6.	Scalability of the Solution	The proposed website's functionality can be turned into an API so that other e-banking and e-commerce portals can utilize it to provide their users with safer and more effective solutions. It could be further extended for other security concerns such as audio recording, video recording, location tracking, virus attacks, and more.with safer and more effective solutions.