Project Design Phase-I
Proposed Solution Template

Date	19 September 2022
Team ID	PNT2022TMID00733
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 sites are harmful websites that mimic trustworthy websites or web pages in an effort to steal user's personal information, including their user's name, password, and credit card number. ▪ Because phishing is mostly a semantics-based assault that focuses on human vulnerabilities rather than network or software flaws, identifying these phishing websites can be difficult.
2.	**Idea / Solution description**	▪ As a browser extension, our solution scrapes the website URL and feeds it into our machine learning model. ▪ The extension alerts the user if our model determines that the website is a phishing website.
3.	**Novelty / Uniqueness**	▪ There are no prior works that make advantage of the browser extension factor. ▪ As a browser extension, the user doesn't need to second-guess using a website because our plugin will handle the dividing up the work.

4.	**Social Impact / Customer Satisfaction**	- The user does not have to do any work because this is a fairly hands-off approach; instead, the extension will educate the user about the legitimacy of the website. - Due to the fact that less information is stolen by phishing sites, customers are more satisfied as a result. - When accessing a trustworthy website, with ease.
5.	**Business Model (Revenue Model)**	- We suggest a two-tier system, with one tier being "free" and the other "premium." - When classifying a website, the free tier would include the advertisements that appear underneath. - The premium tier is a monthly or yearly recurring membership that eliminates all ads. advertising, which speed up and improve the classification algorithms.
6.	**Scalability of the Solution**	- Since this would be a Chrome Marketplace - published browser extension, everybody in the globe can access and use it. - It could be scaled up because it is hosted on the IBM Cloud as needed, up and down.