



## **Project Initialization and Planning Phase**

Date	26 September 2024
Team ID	LTVIP2024TMID24838
Project Title	Detection of Phishing Websites from URLs
Maximum Marks	3 Marks

## **Project Proposal (Proposed Solution) template**

This project focuses to detect phishing websites from URLs. By utilizing machine learning algorithms and data analytics, the system aims to analyze website URLs in real-time to identify and flag potential phishing attempts, thereby enhancing online security and protecting users from cyber threats.

Project Overview		
Objective	The primary objective of this project is detecting the credibility of a website based on its urls characteristics.	
Scope	The project predicts whether a website is a legitimate or a phishing website from its url.	
Problem Statement		
Description	When using a website URL, it's crucial to be cautious to avoid falling victim to phishing attacks. Phishing URLs often appear legitimate but can lead to malicious websites designed to steal sensitive information or install malware.	
Impact	Detecting phishing websites is crucial for cyber safety as it helps prevent financial losses, identity theft, malware prevention and other malicious activities.	
Proposed Solution		
Approach	Machine learning techniques play a crucial role in detecting phishing websites by enabling the identification of patterns and characteristics that distinguish phishing websites from legitimate ones. These techniques can analyze various features of a website, such as its URL, content, and user behavior, to predict whether it is a phishing website or not.	
Key Features	-Implementing machine learning model such as Logistic Regression, , Random Forest or other models for detecting the websites.	





- Predicting the credibility of a website using its url.

## **Resource Requirements**

Resource Type	Description	Specification/Allocation		
Hardware				
Computing Resources	CPU/GPU specifications, number of cores	e.g., intel i5 / AMD Ryzen 5, 4 cores		
Memory	RAM specifications	e.g., 8 GB		
Storage	Disk space for data, models, and logs	e.g., 1 TB SSD		
Software				
Frameworks	Python frameworks	e.g., Flask		
Libraries	Additional libraries	e.g., scikit-learn, pandas, numpy, joblib, regex, tldextract, socket, bs4, whois, favicon, re, google		
Development Environment	IDE, version control	e.g., Jupyter Notebook, Google colab		
Data				
Data	Source, size, format	e.g., Kaggle dataset, 836, csv		