Project Design Phase-II Technology Stack
(Architecture & Stack)

Date	04 November 2022
Team ID	PNT2022TMID37106
Project Name	Web Phishing Detection
Maximum Marks	4 Marks

Technical Architecture:

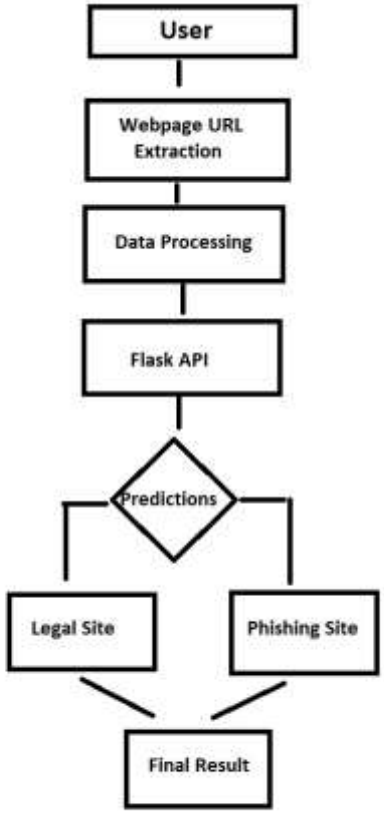

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS
2.	Application Logic-1	Compare the URL with already available list	Python
3.	Application Logic-2	Check the URL with ML Algorithms	Flask - Lightweight Framework
4.	Application Logic-3	Logic for a process in the application	Built Model based of regression which is integrated to application.
5.	Database	Data Type, Configurations	Dataset (dataset-website.csv)
6.	Cloud Database	Database Service on Cloud	IBM Cloud
7.	File Storage	File storage requirements	Small amount of space in client system and little bit of resources.
8.	External API-1	No external API	Inbuilt Process automation
9.	Machine Learning Model	Purpose of Machine Learning Model	Logistic Regression, KNN model and data classification.
10.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local

Table-2: Application Characteristics:

SI.NO	Characteristics	Description	Technology
1	Open-Source Frameworks	Easy Phishing Framework easy for anyone to check for phishing sites	Go phish, Speed Phish Framework (SPF), King Phisher, etc.
2	Security Implementations	Security / access controls implemented, use of firewalls etc.	e.g. anti-phishing protection and antispam software etc
3	Scalable Architecture	Scalability detection and Isolation of phishing.	Response time, Throughput, CPU and network usages, etc.
4	Performance	As it is a small process it can performance well on maximum aspects.	Blacklists/whitelists, Natural language Processing, Visual similarity, rules, machine learning techniques, etc