Project Design Phase-II

Technology Stack (Architecture & Stack)

DATE	16 OCTOBER 2022
TEAM ID	PNT2022TMID15373
PROJECT NAME	WEB PHISHING DETECTION
MAXIMUM MARKS	4 MARKS

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

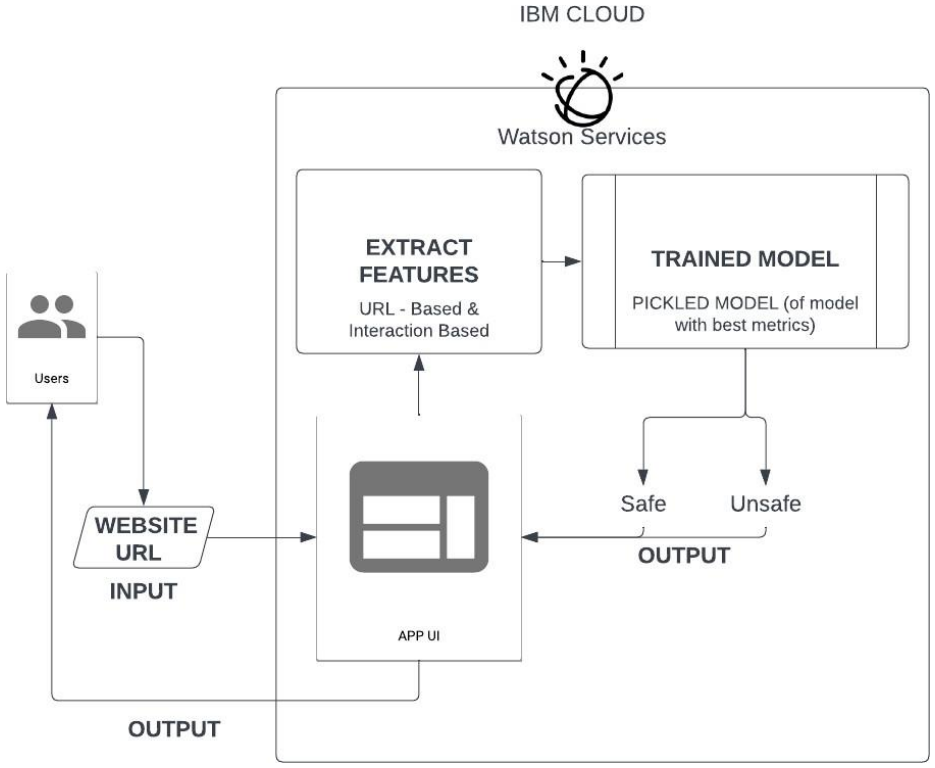

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, Python - Flask
2.	Website URL - Input	The URL of the site the user is suspicious of, or wants to check whether it is safe or unsafe	HTML, CSS, Python - Flask
3.	Website URL - Output	A prediction on whether the site is safe to use or if it is a phishing site	HTML, CSS, Python - Flask
4.	APP UI	Logic for a process in the application	HTML, CSS, Python - Flask
5.	Extract features	Extract the URL attributes, data type, Configurations, etc.	Python
6.	Trained Model	Best metrics, accuracy, low FR, classify whether attack or benign.	Python
7.	Model Output	Classification whether it is safe or unsafe URL	Python, Jupyter Notebook
8.	Infrastructure (Server / Cloud) - IBM	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	IBM Cloud

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Scalable Architecture	Multi-tier architecture - connected to IBM cloud	Python
2.	Availability	Cloud load balancing and storage in DB	IBM cloud services
3.	Performance	Scalable to accommodate users and responsetime is reduced	Cloud App services, security modules and virtual hardware resources