

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

Date	04 November 2022
Team ID	PNT2022TMID38146
Project Name	Project - Web Phishing Detection
Maximum Marks	4 Marks

Technical Architecture:

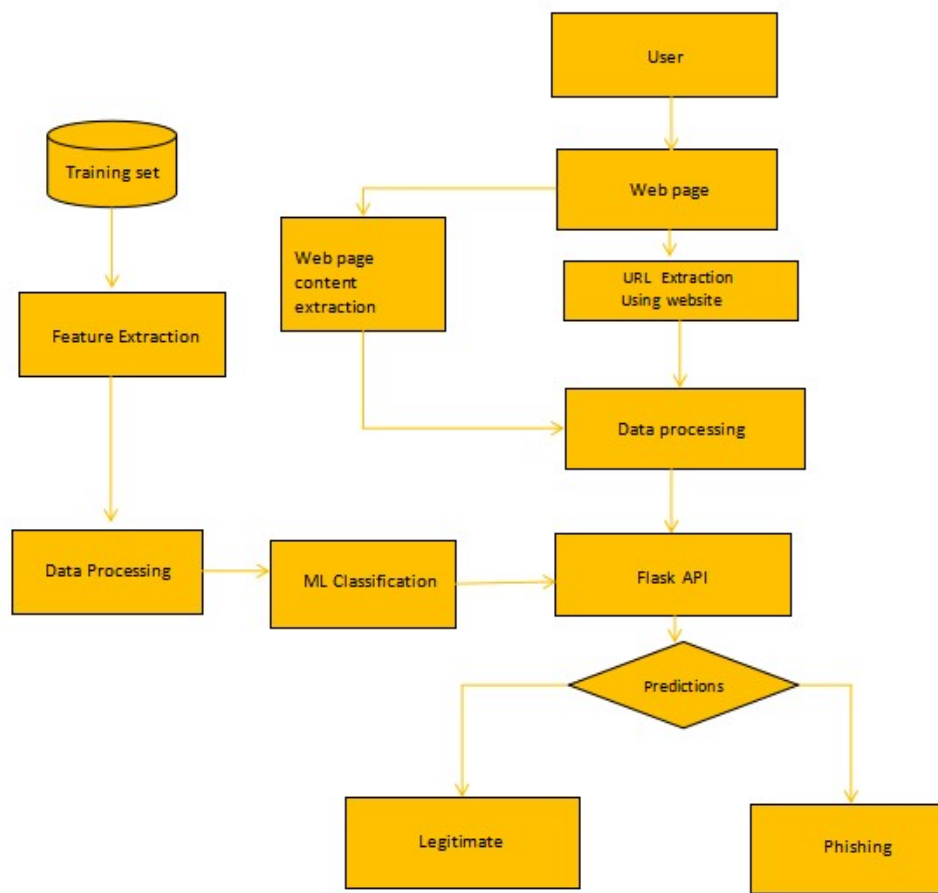


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, FLASK
2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for a process in the application	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 etc.	Dataset (dataset-website.csv)
6.	Cloud Database	Database Service on Cloud	None
7.	File Storage	File storage requirements	Small amount of space in client system and little bit of resources.
8.	External API-1	Purpose of External API used in the application	Inbuilt Process automation
9.	External API-2	Purpose of External API used in the application	None
10.	Machine Learning Model	Purpose of Machine Learning Model	Logistic Regression, KNN model and data classification.
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Flask - Python

S.No	Characteristics	Description	Technology
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	e.g. SHA-256,SSL certificates.
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Can be used at low performance systems
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Available when internet access is available
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Changes based on user's available resources.