

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

Date	13 October 2022
Team ID	PNT2022TMID02309
Project Name	Project - Web Phishing Detection
Maximum Marks	4 Marks

Technical Architecture:

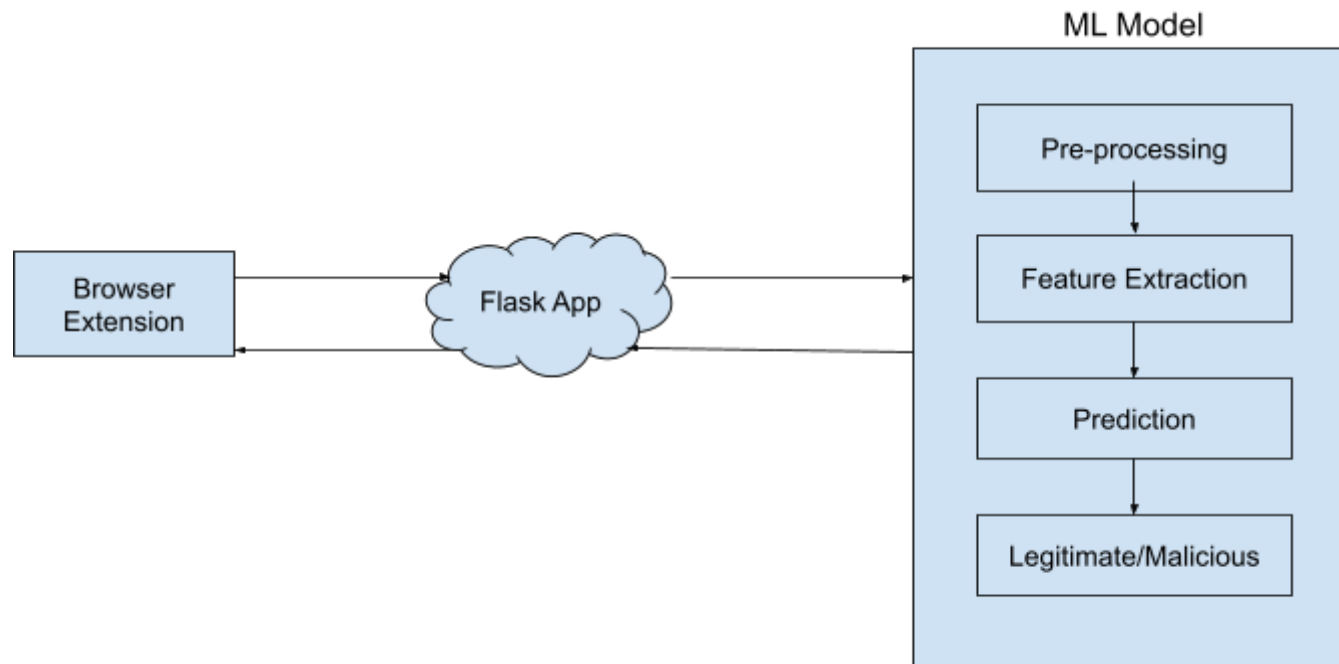


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	Browser Extension, JavaScript
2.	Application Logic-1	Logic for a process in the application	Python, JavaScript
3.	Application Logic-2	Logic for a process in the application	Flask server on IBM Cloud
4.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
5.	Machine Learning Model	Purpose of Machine Learning Model	Logistic Regression, Support Vector Machines etc.
6.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	flask, pickle, requests.
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	Firewall, IAM, AES-256.
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Response time, Throughput, CPU and network usages, etc.
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Auto scaling based on user demand.
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Blacklists/whitelist, URL Processing, rules, ML techniques, etc.