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

Technical Architecture:

Date	28 October 2022
Team ID	PNT2022TMID35411
Project Name	Project – Web Phishing detection
Maximum Marks	4 Marks

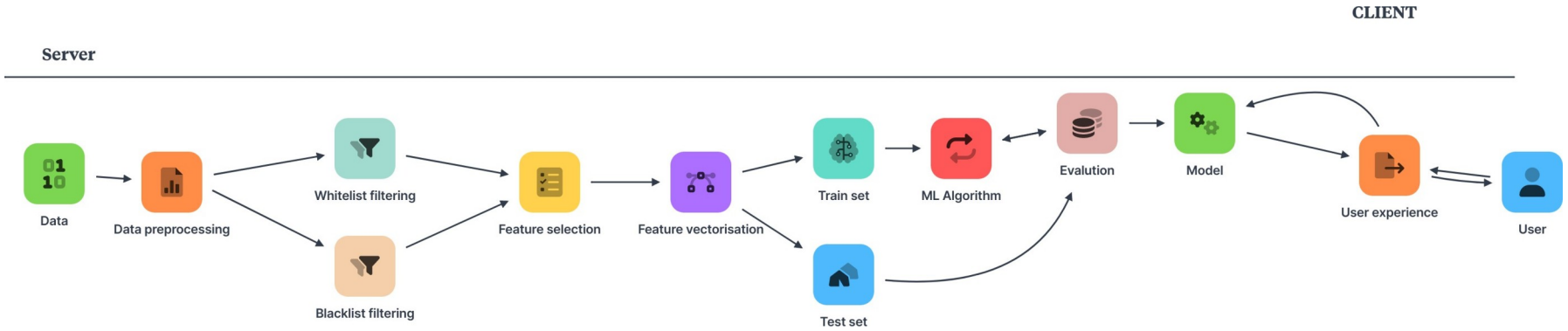

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application Web UI	HTML, CSS, JavaScript, Bootstrap
2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for a process in the application	Flask ,IBM Cloud
4.	Application Logic-3	Logic for a process in the application	IBM Watson assistant
5.	Database	Data Type, Configurations etc.	MongoDB
6.	Cloud Database	Database Service on Cloud	IBM Cloudant
7.	File Storage	File storage requirements	Local File-system
8.	External API-1	Purpose of External API used in the application	Google API, REST API
9.	Machine Learning Model	Purpose of Machine Learning Model	Logistic Regression, SVMs, XGBoost, RandomForest
1	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Wifiphisher, Gophish,SniperPhish, LUCY
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	Two factor authetication
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	Flask API, Microservices for scalability
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Auto scaling using IBM cloud
5.	Performance	Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.	Using effective messages, the effect of message persistence, and queues of various lengths