Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	22 October 2022
Team ID	PNT2022TMID25901
Project Name	Project - Web Phishing Detection
Maximum Marks	4 Marks

Technical Architecture :

Solution Architecture Diagram for Phishing Web Detection:

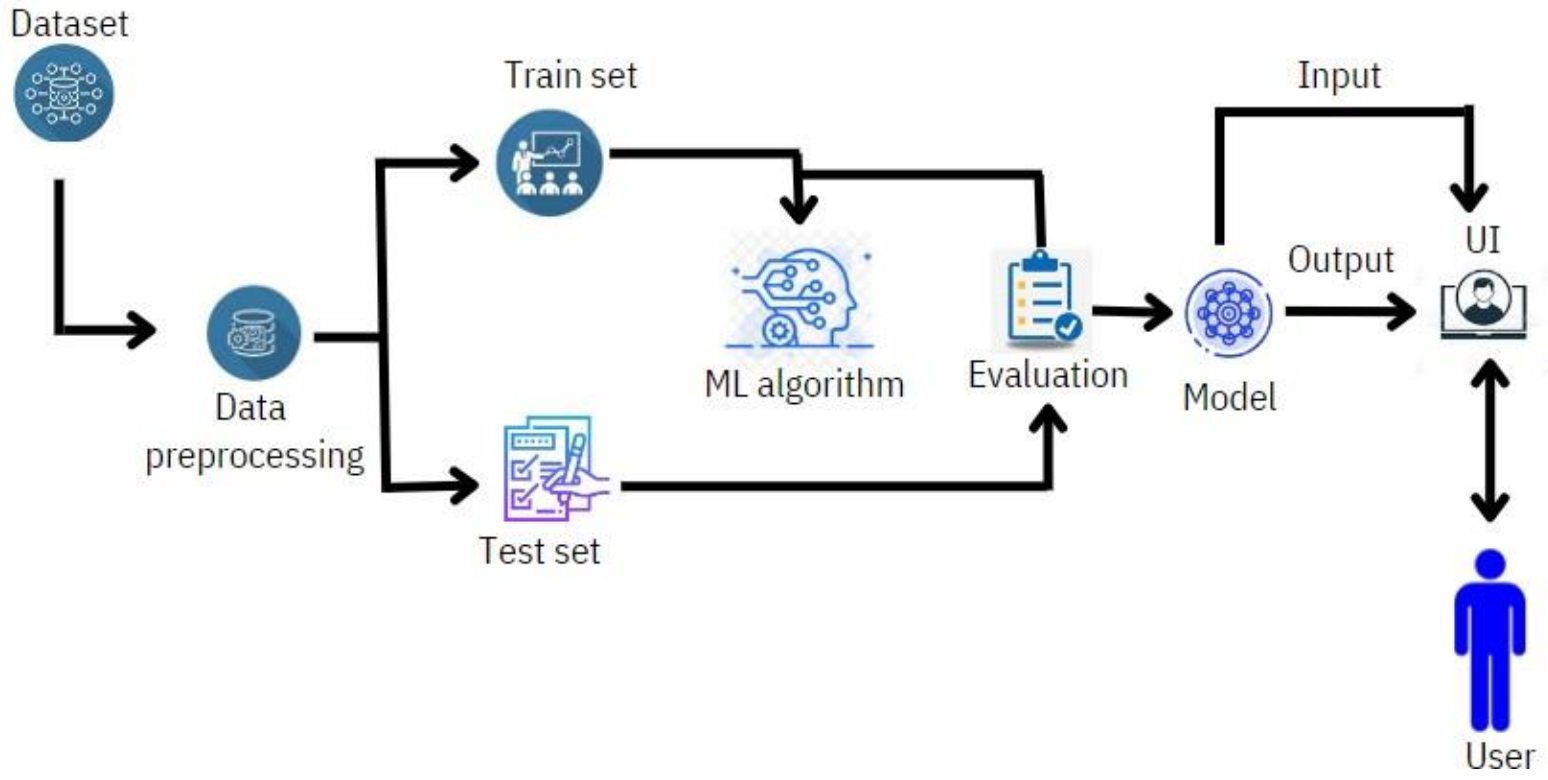

Table-1 : Components & Technologies:

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	Logic for a process in the application	Java / Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson STT service
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL,
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-1	Purpose of External API used in the application	IBM Weather API, etc.
9.	Machine Learning Model	Purpose of Machine Learning Model	Logistic Regression Model, k-Nearest Support Vector Classifier Naive Bayes Decision Tree Random Forest Gradient Boosting Catboost Xgboost
10.	Infrastructure (Server / Cloud)	Application Deployment on Local System	Local, Cloud Foundry, Kubernetes, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Visual Studio Code	Technology of Open Source framework
2.	Security Implementations	Security information control using user privacy	Codefense PDR
3.	Scalable Architecture	Cloud can be used to deploy as many possible user numbers.	IBM cloud
4.	Availability	Methods are Visual Confirmation, natural Language processing, Machine learning translations.	ML model, Gmail API
5.	Performance	Machine learning Algorithms are used for accurate results and effective performance.	Logistic Regression Model, k-Nearest Support Vector Classifier Naive Bayes Decision Tree Random Forest Gradient Boosting Catboost Xgboost