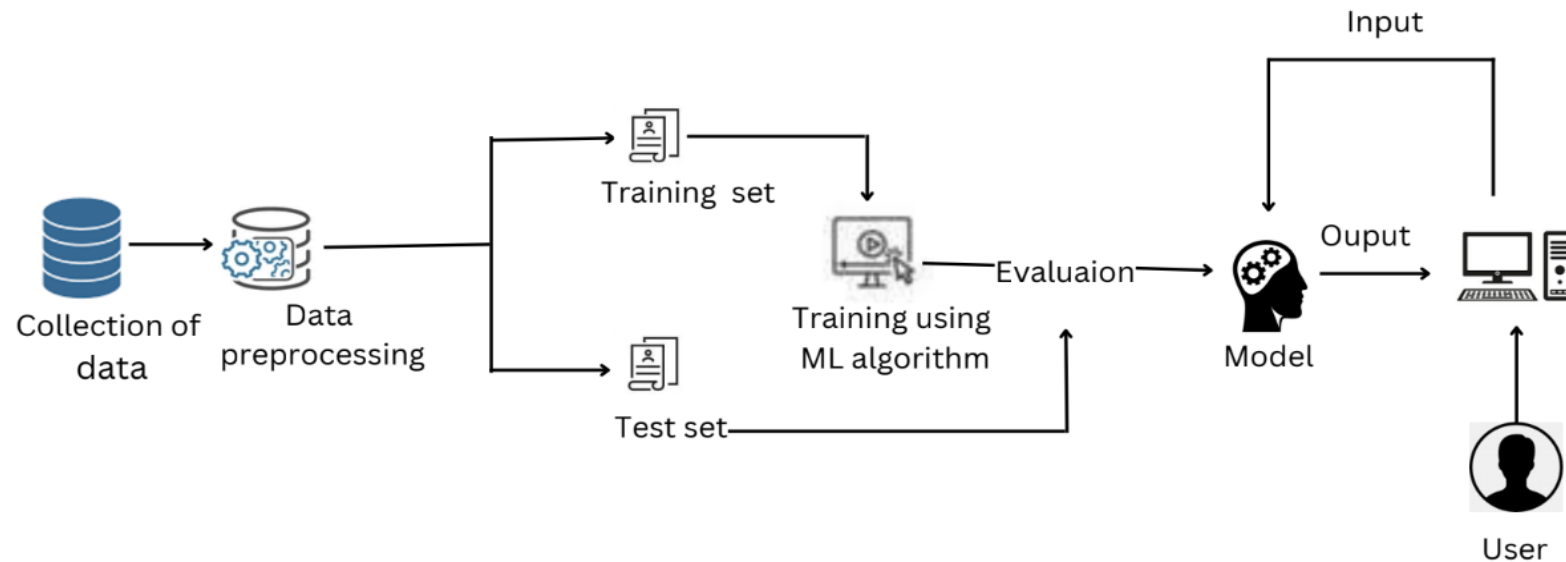


Project Design Phase-II Technology Stack (Architecture & Stack)

Date	21 October 2022
Team ID	PNT2022TMID01337
Project Name	Project - 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.



User



User



*Enter
website link*

Middleware



*Data cleaning using
jupyter*



ML model training



IBM watson



IBM Cloud

Data storage

Admin



Website UI

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User Interface using web UI Web UI	HTML, CSS, JavaScript
2.	Application Logic-1	Logic for a process in the application	Python
3.	Application Logic-2	Logic for a process in the application	Anaconda navigator
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL
6.	Cloud Database	Database Service on Cloud	IBM DB.
7.	File Storage	File storage requirements	IBM Block Storage
8.	External API-1	Purpose of External API used in the application	Web API
9.	External API-2	Purpose of External API used in the application	Email API
	Machine Learning Model	Purpose of Machine Learning Model	classification algorithm
10.	Infrastructure (Server / Cloud)	Application Deployment on Local System	Local, Jupyter, Anaconda navigator.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Easy way to test your phishing website using an open-source phishing framework	Python flask
2.	Security Implementations	It is used to identify the threats in the system. To measure the potential vulnerabilities of the system	Encryptions, Verification

S.No	Characteristics	Description	Technology
3.	Scalable Architecture	scalable architecture supports higher workloads without any fundamental changes to it	Throughput, Response time
4.	Availability	Available for every verified user	verification
5.	Performance	Design factors for application performance and techniques for phishing attack detection for higher performance	Natural language Processing, Machine learning, Python