

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

Date	03 October 2022
Team ID	PNT2022TMID00649
Project Name	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

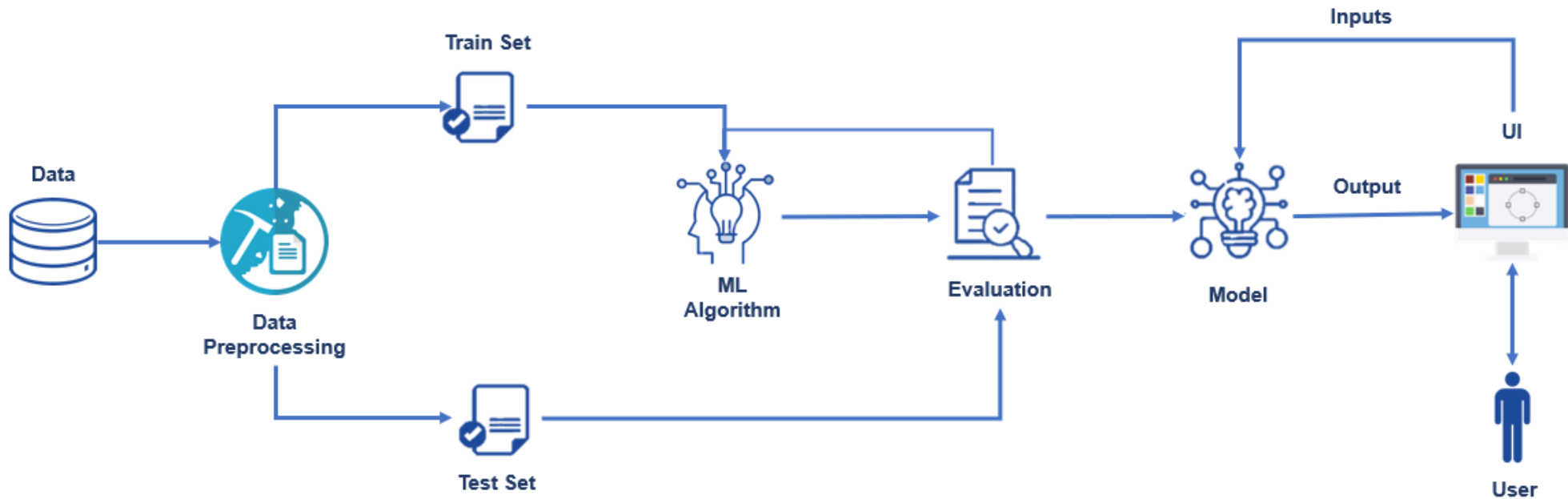


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Web URL	Python and Machine learning
2.	Application Logic-1	Identify the criteria and build a decision tree	Python & ML
3.	Application Logic-2	Train and evaluate the model	Python & ML
4.	Application Logic-3	Identify false positive and false negatives	Python & ML
5.	Database	Data Type, Configurations etc.	MySQL
6.	Cloud Database	Database Service on Cloud	IBM Cloudant
7.	File Storage	File storage requirements	IBM Block Storage
8.	External API-1	Purpose of External API used in the application	IBM Weather API
9.	External API-2	Purpose of External API used in the application	Aadhar API
10.	Machine Learning Model	To detect the phishing websites	CSV File
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Jupyter / Google colab.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	An open source framework is a template for software development that is designed by a social network of software developers.	Jupyter notebook
2.	Security Implementations	Security mechanisms are technical tools and techniques that are used to implement security services.	cloud-based secure proxy, remote anti-virus,
3.	Scalable Architecture	Scalability is the property of a system to handle a growing amount of work by adding resources to the system.	React Framework, jQuery, Bootstrap, Cloudfare
4.	Availability	Available at NLP, Spam Detection ,Blacklisting or Reporting, and machine learning techniques	Acunetix, Intruder, Ghost Phisher
5.	Performance	Deployed and Tested with multiple algorithms and this system gives greater accuracy and better performance than other.	Deep Learning