

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

Date	03 October 2022
Team ID	PNT2022TMID08575
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

Example: Order processing during pandemics for offline mode

Reference: <https://developer.ibm.com/patterns/ai-powered-backend-system-for-order-processing-during-pandemics/>

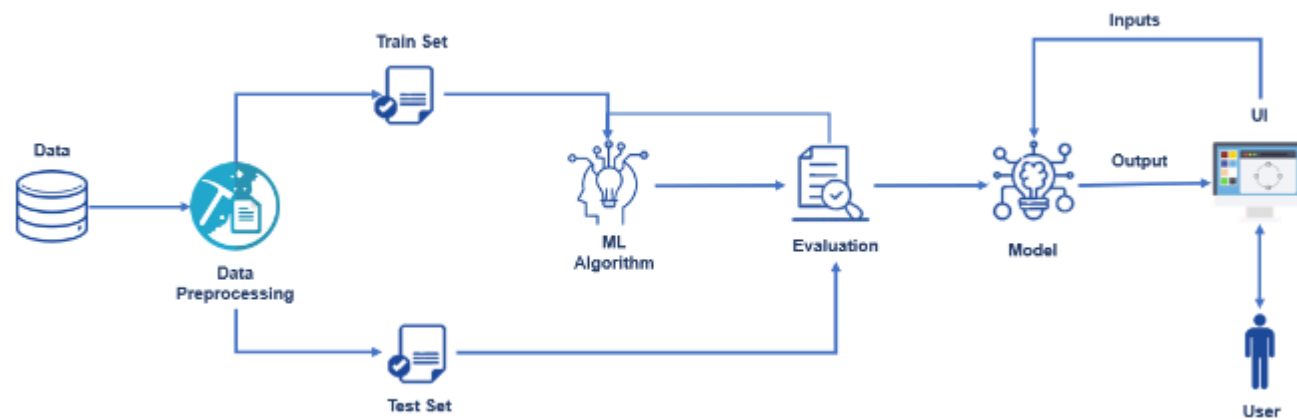


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Dynamic Web UI	HTML, CSS, JavaScript
2.	Application Logic-1	User Registration/Login	Gmail API
3.	Application Logic-2	Web app that predicts if the link is a phishing site or not	Flash API, Python
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Stores user input URLs in the database	MongoDB
6.	Cloud Database	Database Service on Cloud	IBM DB2
7.	File Storage	Store the trained machine learning model	Local Filesystem
8.	Machine Learning Model	Machine Learning Model is trained to detect the phishing link using ML algorithms	Logistic Regression Model
9.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud	Local Server Configuration: Local Cloud Server Configuration: IBM Cloud

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Open-source phishing framework that makes it easy to test your organization's exposure to phishing.	Gophish, checkphish, phishtank, etc.,
2.	Security Implementations	It is the security discipline that makes it possible for right entries to use the right resources without interference	OWASP, Encryption, Password Protection
3.	Scalable Architecture	The accuracy and responsive UI	Bootstrap, Cloudfare
4.	Availability	Spam Detection, Blacklisting or Reporting	Ghost Phisher
5.	Performance	Deployed and tested with multiple algorithms and this system gives greater accuracy and better performance	Natural Language Processing

References:

<https://c4model.com/>

<https://developer.ibm.com/patterns/online-order-processing-system-during-pandemic/>

<https://www.ibm.com/cloud/architecture>

<https://aws.amazon.com/architecture>

<https://medium.com/the-internal-startup/how-to-draw-useful-technical-architecture-diagrams-2d20c9fda90d>