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

Date	03 October 2022
Team ID	PNT2022TMID36037
Project Name	Web Phishing Detection
Maximum Marks	4 Marks

Technical Architecture:

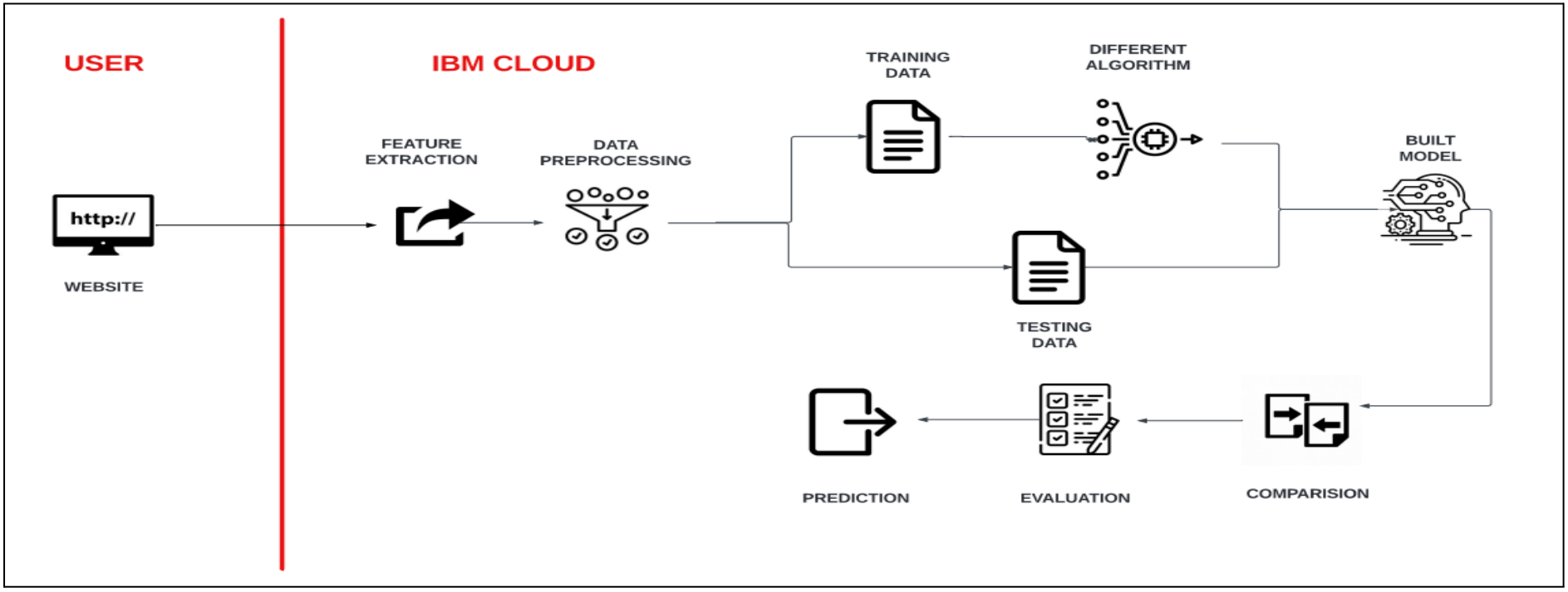

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Login page and the main page will be created where the user will be asked to sign in and can check whether the link is legitimate or not	HTML, CSS, JavaScript
2.	Application Logic-1	User authentication page	Python
3.	Application Logic-2	Phishing detection using machine learning	Python
4.	Application Logic-3	Integration and deployment	IBM Watson Assistant
5.	Database	to store user name and corresponding password for user authentication	MySQL
6.	Cloud Database	Database Service on Cloud	IBM DB2
7.	File Storage	Dataset used for building the model	Local Filesystem
8.	External API-1	Mail notification	SMTP
9.	External API-2	Mobile notification	Flask
10.	Machine Learning Model	to build a model to classify whether the website / link is legitimate or not	Ensemble model
11.	Infrastructure (Server / Cloud)	Cloud deployment	IBM Cloud

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask is a web development framework	Flask
2.	Security Implementations	-	-
3.	Scalable Architecture	Can use cloud to deploy so that many number of users can be supported	IBM watson
4.	Availability	to be available all the time, so we use cloud	IBM watson
5.	Performance	Performance metrics of machine learning can be used.	Confusion matrix to check how accurately it classifies