

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

Date	25 October 2022
Team ID	PNT2022TMID37408
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

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1	User Interface	Web Application, Cloud UI	HTML, CSS, JavaScript Angular Js / React Js etc.
2	Application Logic-1	Machine Learning Algorithms such as Random forest, Decision Tree , Logistic Regression and SVM. Python Flask Application for Web App	Java / Python
3	Application Logic-2	IBM Watson Speech to Text technology enables fast and accurate speech transcription in multiple languages for a variety of use cases, including but not limited to customer selfservice, agent assistance and speech analytics.	IBM Watson STT service
4	Application Logic-3	The IBM Watson Assistant service combines machine learning, natural language understanding, and an integrated dialog editor to create conversation flows between your apps and your users.	IBM Watson Assistant
5	Database	Stored Procedure (EXEC)	MySQL, NoSQL, etc.
6	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1	Open-Source Frameworks	Gophish is a powerful, open-source phishing framework that makes it easy to test your organization's exposure to phishing.	Machine Learning
2	Security Implementations	In our prototype we use encryption techniques and security algorithms on web application	AES 256 , Cofense PDR
3	Scalable Architecture	Scalability is high due to accuracy provided by the model and Responsive UI/UX	React Framework, jQuery, Bootstrap, Cloudfare
4	Availability	Available at NLP, Spam Detection,Blacklisting or Reporting, and machine learning techniques	Acunetix, Intruder, Ghost Phisher 5
5	Performance	Deployed and Tested with multiple algorithms and this system gives greater accuracy and better performance than other.	Deep Learning