**Project Design Phase-II**

**Technology Stack (Architecture & Stack)**

|  |  |
| --- | --- |
| Date | 19October 2022 |
| Team ID | PNT2022TMID02425 |
| Project Name | Project – Web Phishing Detection |
| Maximum Marks | 4 Marks |

**Technical Architecture:**

**Diagram, schematic

Description automatically generated**

**Table-1 : Components & Technologies:**

|  |  |  |  |
| --- | --- | --- | --- |
| **S.No** | **Component** | **Description** | **Technology** |
|  | User Interface | How user interacts with application e.g.  Web UI, Mobile App, Chatbot etc. | HTML, CSS, JavaScript / Angular Js / React Js etc. |
|  | Application Logic-1 | Logic for a process in the application | Java / Python |
|  | Application Logic-2 | Logic for a process in the application | IBM Watson STT service |
|  | Application Logic-3 | Logic for a process in the application | IBM Watson Assistant |
|  | Database | Data Type, Configurations etc. | MySQL, NoSQL, etc. |
|  | Cloud Database | Database Service on Cloud | IBM DB2, IBM Cloudant etc. |
|  | File Storage | File storage requirements | IBM Block Storage or Other Storage Service or Local Filesystem |

**Table-2: Application Characteristics:**

| **S.No** | **Characteristics** | **Description** | **Technology** |
| --- | --- | --- | --- |
|  | Open-Source Frameworks | Gopish is a powerful, open-source phishing  framework that makes it easy to test your  organization's exposure to phishing. | Machine learning |
|  | Security Implementations | Our prototype includes a c#.Net framework implementation of a web browser. | Cofense PDR (Phishing Detection and  Response) |
|  | Scalable Architecture | Scalability is maximum due to accurate estimation | jQuery,cloud flare, Bootstarp |
|  | Availability | Mostly available methods for detecting phishing  attacks are blacklists/whitelists, natural language  processing, visual similarity, rules, machine  learning techniques | Wireshark, Ghost phisher,king phisher |
|  | Performance | We assessed the performance of the phishing  classification models employing accuracy,  precision, recall and F-score. | Hardware and support systems,software applications |