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

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|---|---|
| Date | 03 October 2022 |
| Team ID | PNT2022TMID20856 |
| 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

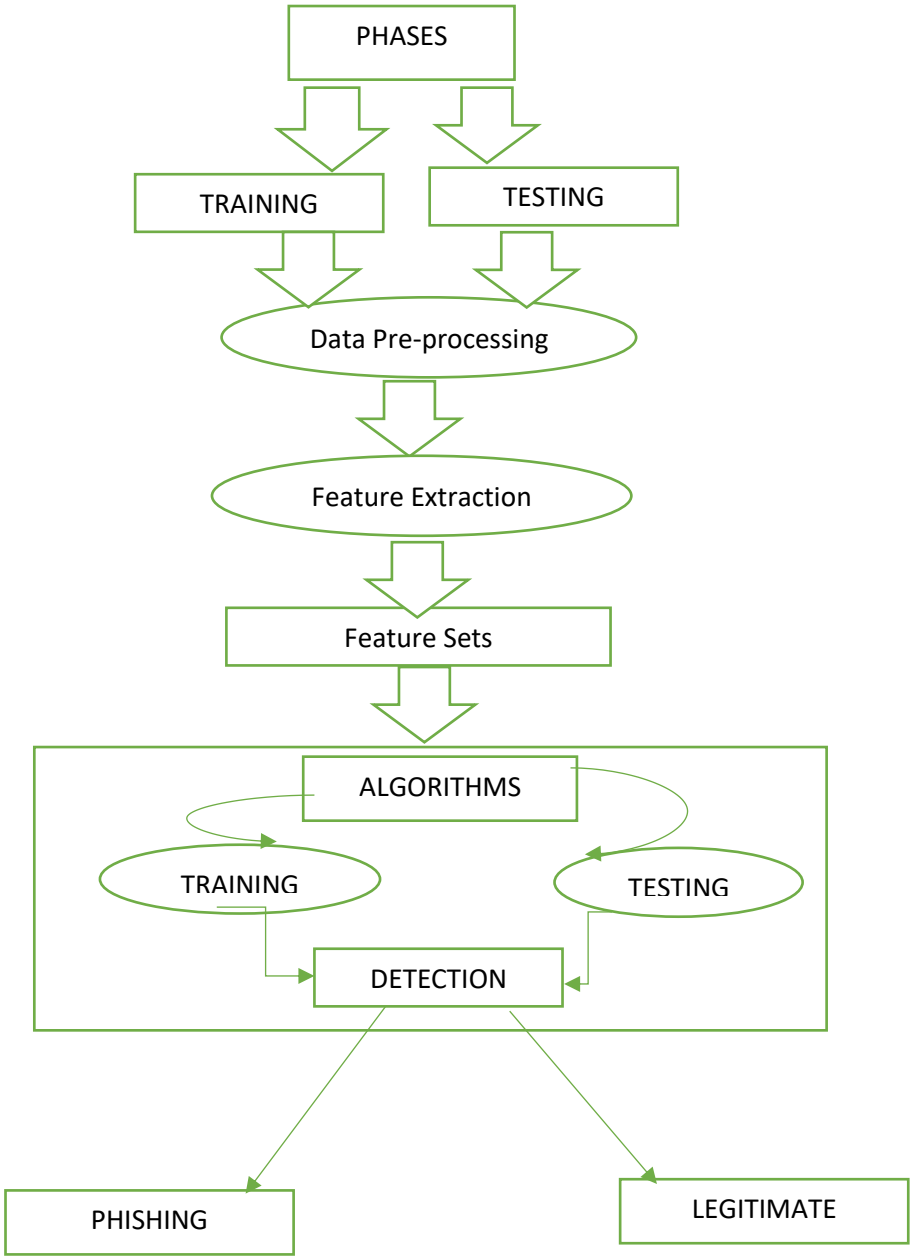
PHASES
TRAINING
TESTING
Data Pre-processing
Feature Extraction
Feature Sets
ALGORITHMS
TRAINING
TESTING
DETECTION
PHISHING
LEGITIMATE

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

| S.No | Component | Description | Technology |
|---|---|---|---|
| 1. | User Interface | How user interacts with application e.g. Web UI, Mobile App, Chatbot etc. | HTML, CSS, JavaScript / Angular Js / React Js etc. |
| 2. | Application Logic-1 | Logic for a process in the application | Java / Python |
| 3. | Application Logic-2 | Logic for a process in the application | IBM Watson STT service |
| 4. | Application Logic-3 | Logic for a process in the application | IBM Watson Assistant |
| 5. | Database | Data Type, Configurations etc. | MySQL |
| 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 |
| 8. | External API-1 | Purpose of External API used in the application | Fast API. |
| 9. | External API-2 | Purpose of External API used in the application | NIL |
| 10. | Machine Learning Model | Purpose of Machine Learning Model | Object Recognition Model, etc. |
| 11. | Infrastructure (Server / Cloud) | Application Deployment on Local System / Cloud | Local, Cloud Foundry, Kubernetes, etc. |

**Table-2: Application Characteristics:**

| S.No | Characteristics | Description | Technology |
|---|---|---|---|
| 1. | Open-Source Frameworks | List of the open-source frameworks used | Python Flask |
| 2. | Security Implementations | List of all the security / access controls implemented, use of firewalls etc. | SHA-256, Encryptions, IAM Controls, RSA, OWASP etc. |
| 3. | Scalable Architecture | Justification of the scalability of architecture -Cloud Infrastructure which is used to provide many services. | IBM Watson Cloud |

| S.No | Characteristics | Description | Technology |
|---|---|---|---|
| 4. | Availability | Available all time | IBM Watson Cloud |
| 5. | Performance | Performance of the built application | Logistic Regression, Random Forest Classifier, Etc |