**Project Design Phase-II**

**Solution Requirements (Functional & Non-functional)**

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| Date | 03 October 2022 |
| Team ID | PNT2022TMID50730 |
| Project Name | Web phishing Detection |
| Maximum Marks | 4 Marks |

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

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| --- | --- | --- |
| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| FR-1 | Feature Extraction | Based on URL  Based on Domain Name  Based on Page Based Features  Based on content |
| FR-2 | Data Classification | URLs Detection  Content Identification |
| FR-3 | Classifier Selection | Create multiple datasets  Build multiple classifiers  Combine classifiers  Finalize Classifier |

**Non-functional Requirements:**

Following are the non-functional requirements of the proposed solution.

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| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | Phishing Detection appear to come from legitimate and trusted parties, such as banks, online payment services, e-commerce services or personal acquaintances that sometimes can be friends and relatives. But are the senders really the ones who claim to be? Or are they just phishers and masquerades? |
| NFR-2 | **Security** | Improving the level of network security and preventing phishing are a matter of great concern to both the state and researchers. |
| NFR-3 | **Reliability** | Our research demonstrates that current phishing detection technologies have an accuracy rate between70**%** and92**.**52**%** |
| NFR-4 | **Performance** | The performance of the trained model for the corresponding classifier is analysed in terms of detection rate, sensitivity, specificity, and error rate. |
| NFR-5 | **Availability** | Mostly available methods for detecting phishing attacks are blacklists/whitelists, natural language processing, visual similarity, rules, machine learning techniques, etc. |
| NFR-6 | **Scalability** | This paper presents a proposal for scalable detection and isolation of phishing |