**Project Design Phase-II**

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

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| Date | 03 October 2022 |
| Team ID | PNT2022TMID34936 |
| 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 | User Registration | Registration through Gmail.  Registration through number. |
| FR-2 | User Confirmation | Confirmation via Email,  Confirmation via OTP. |
| FR-3 | User Input | Necessary fields will be filled by users with the suspected URLs. |
| FR-4 | Prediction | Model predicts the URL using machine learning algorithm such as k means algorithm, Logistics regression. |
| FR-5 | Classification | URLs will be marked as legitimate or phishing site. |
| FR-5 | Result | User will able to see whether the website is a legal or phishing site and if it turns out to be harmful then they will be warned about the websites and further instructions will be given. |

**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** | User friendly UI design and user have no trouble to get the results. |
| NFR-2 | **Security** | All data inside the system will be protected from malware attacks and unauthorized access. E-mail based authentication will be used |
| NFR-3 | **Reliability** | System predicts the phishing sites with more accuracy. |
| NFR-4 | **Performance** | System with more effectiveness in prediction of phishing sites with less time delay. |
| NFR-5 | **Availability** | UI is simple and straight forward. System availability can be utilized according to the needs. |
| NFR-6 | **Scalability** | There are features to enable system scalability to increase when the workload increases. |