**Project Design Phase-II**

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

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| Date | 03 October 2022 |
| Team ID | PNT2022TMID36162 |
| Project Name | Fertilizer recommendation system for disease prediction |
| 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 Form  Registration through Gmail  Registration through LinkedIN |
| FR-2 | User Confirmation | Confirmation via Email  Confirmation via OTP |
| FR-3 | Website comparison | Model compares the fertilizer using blacklist and whitelist approach |
| FR-4 | Prediction | Model predicts the URL using Deep learning algorithm  Such CNN, |
| FR-5 | Classifier | Model send all output to classifier and produces final results. |
| FR-6 | Events | This model needs the capability of retrieving and displaying accurate result of the fertilizer. |

**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** | The customer has full access on the system and on the data’s and images through image processing. |
| NFR-2 | **Security** | The images used in the images processing as a dataset is backed up. |
| NFR-3 | **Reliability** | The system should be user friendly to the customer while using the system. |
| NFR-4 | **Performance** | The accuracy of the prediction must be high. |
| NFR-5 | **Availability** | The resources should be always available for the system when then user in need. |
| NFR-6 | **Scalability** | It must be able to handle larger data’s without any interruption or damage to the system. |