**Project Design Phase-II**

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

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| Date | 03 October 2022 |
| Team ID | PNT2022TMID51001 |
| Project Name | Project - Estimate The Crop Yield Using Data Analytics |
| 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 |
| FR-2 | User Confirmation | Confirmation via Email  Confirmation via OTP |
| FR-3 | Collection of Data | Uploading datasets |
| FR-4 | Data pre processing | Removing noise data and missing values |
| FR-5 | Data visualization | Creating various charts using graphical visualization tools |
| FR-6 | Data analyzing | Extracting information from the graphical charts |

**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** | Easy to Use, customer can login IBM Cognos and views the data visualization charts |
| NFR-2 | **Security** | User verification is done through mail and access limits varies for different user levels. |
| NFR-3 | **Reliability** | Only authorised person can edit the visualization charts and there will be no controversies. |
| NFR-4 | **Performance** | Changes are auto saved, easy to operate and create charts. |
| NFR-5 | **Availability** | Customer can read the dataset and view the visualization charts. |
| NFR-6 | **Scalability** | Scalable and suitable for any kind of data set. Visualize variations with different parameters. |