

Project Design Phase-II
Solution Requirements (Functional & Non-functional)

| | |
|---------------|---|
| Team ID | PNT2022TMID14566 |
| 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.

| FR No. | Functional Requirement (Epic) | Sub Requirement (Story / Sub-Task) |
|--------|-------------------------------|---|
| FR-1 | User Signup | Registration through Gmail Registration through IBM |
| FR-2 | User Confirmation | Confirmation via Email Confirmation via OTP |
| FR-3 | Data Collection | Behavior of crops and the yield obtained is highly dependent on factors like rainfall, temperature, soil type, etc. |
| FR-4 | Data Processing | Data cleaning, removal of noise and obsolete data |
| FR-5 | Visualization Tool | Graphical visualization choices |

Non-functional Requirements:

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

| FR No. | Non-Functional Requirement | Description |
|--------|----------------------------|---|
| NFR-1 | Usability | Ease of usage along with ease in-access of tools and features |
| NFR-2 | Security | Access to resources through two factor authentication and credentials |
| NFR-3 | Reliability | There should be no crashes or loss of data or processes |
| NFR-4 | Performance | High speed rendering of visualization and other readily available features |
| NFR-5 | Availability | Should be available on Demand |
| NFR-6 | Scalability | Should be able to incorporate as many visualizations and datasets as possible |