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

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|---|---|
| Team ID | PNT2022TMID41233 |
| Project Name | 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 Registration | Registration through Form<br>Registration through Gmail |
| FR-2 | User Confirmation | Confirmation via Email<br>Confirmation via OTP |
| FR-3 | User Profile Update | Updating personal details<br>Updating educational details |
| FR-4 | User Login | Login with username and password |
| FR-5 | User Dashboard | Performing required operations |
| FR-6 | Project Upload | Uploading the project according to the problem statement provided |

**Non-functional Requirements:**

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

| FR No. | Non-Functional Requirement | Description |
|---|---|---|
| NFR-1 | **Usability** | India is one of the top countries to produce crops.<br>As per this project we will be analyzing some important visualization, creating a dashboard and by going through these we will get most of the insights of crop production in India. |
| NFR-2 | **Security** | Data analytics has a significant relationship with a firms ability to manage data security. |
| NFR-3 | **Reliability** | Farmers are now entitled with the insights that can help them predict the market condition towards the finished goods and other related variables. |
| NFR-4 | **Performance** | Data analytics helps in executing the existing algorithms faster with large data sets.<br>One of the important feature is data processing which involves the processing of raw data collections. |
| NFR-5 | **Availability** | With data analytics crop yield can prediction can be done earlier even before sowing seeds which results more productivity. |
| NFR-6 | **Scalability** | Automated data science and data engineering tasks.<br>Train, test and deploy models seamlessly across multiple enterprise applications.<br>Extend common data science capabilities across hybrid and multi-cloud environments. |