

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

|               |                   |
|---------------|-------------------|
| Date          | 03 October 2022   |
| Team ID       | PNT2022TMIDxxxxxx |
| Project Name  | Project - xxx     |
| 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<br>Registration through LinkedIn |
| FR-2   | User Confirmation             | Confirmation via Email<br>Confirmation via OTP   |
| FR-3   | Prediction Details            | User must specify the location in order to get the prediction.                           |
| FR-4   | Forecasting Accuracy          | Retrieving the past Fore castings and calculate the accuracy.                            |
| FR-5   | Forecast                      | The flood probability of the forecast is displayed on the screen.                        |
| Fr-6   | Snapshots                     | The Web-UI will display the necessary information as report and pictures.                |

**Non-functional Requirements:**

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

| FR No. | Non-Functional Requirement | Description   |
|--------|----------------------------|---|
| NFR-1  | <b>Usability</b>           | The usability of the website is to make all the users be satisfied with the overall experience of the end product and get the result within just one press of a button. |
| NFR-2  | <b>Security</b>            | The security is developing the website that prevents SQL injection task, DOS attack and XSS attack.   |
| NFR-3  | <b>Reliability</b>         | The key reliability is to make sure the website doesn't go offline and the prediction is very much accurate.  |
| NFR-4  | <b>Performance</b>         | The performance of the website to provide data to all users without unnecessary delay and provide 24/7 availability.  |
| NFR-5  | <b>Availability</b>        | The availability of the website would be that the website will be active and able to browse in the web on demand.   |

|       |                    |   |
|-------|--------------------|---|
| NFR-6 | <b>Scalability</b> | The scalability of the system is that the project has been limited to only Indian cities and later have plans to escalate to the continent level. |
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