**Project Design Phase-II**

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

|  |  |
| --- | --- |
| Date | 03 October 2022 |
| Team ID | PNT2022TMID11613 |
| Project Name | Project – flight delay prediction |
| 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  Registration through Gmail |
| FR-2 | User Confirmation | Confirmation via Email |
| FR-3 | User flight details | * flight name * departure time * departure delay * schedule arrival time * actual ETA * distance |
| FR-4 | Classification to predict flight delay whether to take off or not? | Using the multiple existing features, loading it into an algorithm to find whether the flight delay is there are not. |

**Non-functional Requirements:**

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

|  |  |  |
| --- | --- | --- |
| **FR No.** | **Non-Functional Requirement** | **Description** |
| NFR-1 | **Usability** | User interface (UI) is very much user-friendly and easy to use for a seamless flow of the process |
| NFR-2 | **Security** | Must guard against SQL injection and other types of attacks that could lead to data theft. |
| NFR-3 | **Reliability** | A trustworthy source where user information is encrypted and protected from attackers |
| NFR-4 | **Performance** | The user interface needs to be fast and able to handle a significant quantity of network traffic. |
| NFR-5 | **Availability** | The website must not crash because of network load and must always be accessible to users. |
| NFR-6 | **Scalability** | The website must be able to withstand fluctuations in network traffic and resource usage and be error-free. |