**Project Design Phase-II**

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

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| Team Id | PNT2022TMID45954 |
| Project Name | Machine Learning-Based Predictive Analytics for Aircraft Engine |
| 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 |
| FR-2 | User Confirmation | Confirmation via email.  Confirmation via OTP. |
| FR-3 | User Infrastructure | A platform for machine learning. An appropriate GPU and CPU. |
| FR-4 | User Network | Internet access is required for the web server to host the application and send users' test results through email. |
| FR-5 | User Cost | The web server running costs. |
| FR-6 | User Requirements | Understanding of how to enter data into an application. |

**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 | The application is too simple to use. It does not need special training. |
| NFR-2 | Security | Both the user data and the web server hosting the application are secure. |
| NFR-3 | Reliability | It specifies the probability of the performance of software with no failure for a particular number of uses or amount of time. |
| NFR-4 | Performance | The machine learning model can predict outcomes very rapidly because it is quick. |
| NFR-5 | Availability | All internet users must be able to access the web application, and it must be secure from denial-of service attacks |
| NFR-6 | Scalability | The application needs to be flexible enough to scale up or down across various servers in response to demand |