

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

Date	03 October 2022
Team ID	PNT2022TMID12895
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.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form
FR-2	User Confirmation	Sending results via email
FR-3	User Infrastructure	A system to support Machine Learning A suitable GPU and CPU
FR-4	User Network	An internet connection for the web server to host the application and email the test results to the users
FR-5	User Cost	The web server running costs
FR-6	User Requirements	Knowledge on how to input the data on the application

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The application is simple to use and does not require special training.
NFR-2	Security	The web server hosting the application is secure along with the user data.
NFR-3	Reliability	The predicted result is accurate and can be relied on
NFR-4	Performance	The Machine Learning model is fast and can predict results relatively quickly.
NFR-5	Availability	The web application has to be available to all users on the internet and be protected from denial-of-service attacks.
NFR-6	Scalability	The application must be capable of being scaled up or down across multiple servers based on demand.