

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

Date	03 October 2022
Team ID	PNT2022TMID32340
Project Name	Project – Developing a flight delay prediction model using machine learning
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	HomePage	<ul style="list-style-type: none"><li>•Flight delay prediction</li><li>• Information about Flight information required for prediction</li><li>• If new User , <b>REGISTER</b></li><li>• If Already exist, <b>SIGN IN</b></li></ul>
FR-2	User Registration	<ul style="list-style-type: none"><li>• Enters Mail ID and other personal details required for Registering.</li></ul>
FR-3	User Login	<ul style="list-style-type: none"><li>• Uses Mail ID and Password for login</li></ul>
FR-4	Flight Info	<ul style="list-style-type: none"><li>• Flight number,name,destination and timing should be entered for prediction</li></ul>
FR-5	Result	<ul style="list-style-type: none"><li>• Shows the Flight's current status , and predicts the delay.</li></ul>

**Non-functional Requirements:**

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

FR No.	Non-Functional Requirement	Description
NFR-1	<b>Usability</b>	It describes the context of When,Where and Why. The specific activities the requirements describe should reflect the both range of goals that the system must support .

NFR-2	<b>Security</b>	Security functionality that ensures one of many different security properties of software is being satisfied. Security requirements are derived from industry standards, applicable laws, and a history of past vulnerabilities.
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NFR-3	<b>Reliability</b>	It is the measure of the prediction based on the Flights given information and its current status.
NFR-4	<b>Performance</b>	It defines the accuracy of the delay of flight.
NFR-5	<b>Availability</b>	It defines how long the IT system can be unavailable without impacting operations.
NFR-6	<b>Scalability</b>	It is the measure of a system ability to increase or decrease in performance and cost based on its accuracy in response.