

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

Date	03 November 2022
Team ID	PNT2022TMID29843
Project Name	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	User Registration	<ul style="list-style-type: none"><li>• Registration through Form</li><li>• Registration through Gmail</li></ul>
FR-2	User Confirmation	<ul style="list-style-type: none"><li>• Confirmation via Email</li><li>• Confirmation via Password</li></ul>
FR-3	Log in	<ul style="list-style-type: none"><li>• Log in with registered user details and enter the application.</li></ul>
FR-4	Delay Prediction	<ul style="list-style-type: none"><li>• User can search details for flight that can be apply prediction</li><li>• Prediction results have shown the web page.</li></ul>
FR-5	Support	<ul style="list-style-type: none"><li>• Support option mainly focus on user related queries and facing issues solution.</li></ul>
FR-6	Expertness of Delay Prediction	<ul style="list-style-type: none"><li>• Using strong prediction formulas and predicting exponentially.</li></ul>
FR-7	Feedback	<ul style="list-style-type: none"><li>• Get user feedback about application difficulties and good responses.</li></ul>
FR-8	Log Out	<ul style="list-style-type: none"><li>• Log out from the application after process.</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>	This application gives good experience and easily understandable.
NFR-2	<b>Security</b>	User data should be stored in IBM Cloud so, highly securable.
NFR-3	<b>Reliability</b>	This application high priority of prediction and high reliability by deploying in IBM Watson.
NFR-4	<b>Performance</b>	Application can do better performance in every time, and also user can access any time.
NFR-5	<b>Availability</b>	Data should be stored in IBM Cloud so, available any time to process this application.
NFR-6	<b>Scalability</b>	This application runs based on prediction (Machine Learning) so, it had high scalability.