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

Date	15 October 2022
Team ID	PNT2022 TM ID00602
Project Name	Developing A Flight Delay Prediction Model Using
	Machine Learning
Maximum Marks	4 Marks

Function al Requirements:

Following are the function al requirements of the proposed solution .

FR No.	Function al Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	As a user, I can register for the application by entering
		my email, password, and confirming my password.
FR-2	User Confirmation	As a user, I will receive confirmation email once I have
		registered for the application
FR-3	Specify Passengers	The user fills the number of passengers to travel and
		select whether they are child, adult or infant.
FR-4	Book Flights	The flight ticket boo king is don e and receipt of boo king
		is sent to mail of the user.
FR-5	Request Cancellation And	The user wants to cancel the ticket reserved due to
	Booking Of New Flights	delay and book a new flight.
FR-6	Remove Flights	The admin removes the flight and its details from the
		system that are cancelled.

Non-function al Requirements:

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

FR No.	Non-Function al Requirement	Description
NFR-1	Usability	In this project, we use flight data, weather, and demand data to predict flight departure delay.
NFR-2	Security	A delay prediction model will allow the administrators to take the concerned actions for smooth operation.
NFR-3	Reliability	Schedules may become robu st and reliable, on ly if buffer times are embedded and designed properly in airline schedules.
NFR-4	Performance	High delay prediction accuracy.
NFR-5	Availability	24/7 available
NFR-6	Scalability	Flight delays are frequent all over the world and they are estimated to have an annual cost of several tens of billion dollars. This scenario makes the prediction of flight delays a primary issue for airlines and travellers. The main goal of this work is to implement a predictor of the arrival delay of a scheduled flight due to weather conditions.