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

Date	17 Oct ob er 2022
Team ID	PNT2022 TMID37576
Project Name	Develop in g A Fligh t Dela y Pred ict ion Mod e l Usin g
	Machine Learning
Ma xim u m Ma rks	4 Marks

Fun ction al Requ irem en ts:

Following are the function all requirements of the proposed solution.

FR No.	Fun ction al Requ irem en t (Epic)	Sub Requ irem en t (Story / Sub -Task)
FR-1	User Registration	As a user, I can register for the application by entering my email, password, and con firming my password.
FR-2	User Con firm a t ion	As a user, I will receive con firmation email on ce Ihave 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 in fant.
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 Booking Of New Flights	The user wants to cancel the ticket reserved due to 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 -fun ction al Requirem en ts:

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

FR No.	Non -Fun ction al Requ irem en t	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	Sch edu les m ay b eco m e robu st and re liab le, on ly
		if bu ffer times are embedded and designed properly in airline schedu les.
NFR-4	Perform ance	High delay prediction accuracy.
NFR-5	Availability	24 / 7 ava ilab le
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 do llars. 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.