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

Date	15 October 2022
Team ID	PNT2022TMID14481
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 & login	Registration &login of passengers via Google with email id and password
FR-2	Detailed arrival and departure time of flights	With the flight no and name, the passenger cam see the details (time, boarding station, etc)of his/her in the dashboard.
FR-3	Intimate the accurate flight timings to passengers	With the help of various machine learning algorithms, when given the right input features (actual arrival time & departure time, scheduled time, etc) we can predict the delay in time of the flight which will also be shown in the dashboard and updated time-to-time.
FR-4	Airline helpdesk provide alternatives	The contact details of different airlines will be provided, The passenger will also be able to look for any alternative flight in case the flights get cancelled.
FR-5	Passenger feedback	The feedback will be got from the users or how the application was to use, with their feedback and suggestions, we can improve the application further.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The application will have an easy-to-use GUI. Users will find it simple to comprehend and utilize all the capabilities of the application.
NFR-2	**Security**	The technique known as database replication will be utilised for the application security to ensure the safety of all crucial data
NFR-3	**Reliability**	The application will be consistent in all scenarios and work without fail in any environment
NFR-4	**Performance**	The applications response time is direct &faster which is determined by the efficiency of the implemented machine algorithm.

NFR-5	**Availability**	The application will be accessible to users 24 hours a day,7 days a week without interruption. They can access it from any part of the world with proper internet.
NFR-6	**Scalability**	The application will be able to handle a rise in the no.of users & generate higher versions.