Project Design Phase II

Solution Requirements (Functional)

Date	15 october2022
Team ID	PNT2022TMID43039
Project name	Developing a flight delay prediction using machine learning
Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR NO.	Functional requirements	Sub requirement(story/sub-task)
FR-1	User Registration	Registration through a form or Gmail or username password
FR-2	User Confirmation	Confirmation via mobile OTP or Gmail
FR-3	Log In	Login with given user credentials like username password
FR-4	Support	Asking queries or contact with customer support team
FR-5	Prediction of delays	Requesting to enter a detail of flight (predict delays in backend pre-programmed model and shows results)
FR-6	Notify to User	Notify users to know about flight arrival/ departure before 1 hour
FR-7	Get Feedback	Get feedback and ratings from user
FR-8	Log out	Logout from the application

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	How effectively and easy users can learn and use a system. (To guide a new user easily understands a home page)
NFR-2	Security	system and its data were protected against malware attacks or unauthorized access (using two factor authentication during registration its leads to confirmation from user to get a next page)
NFR-3	Reliability	The system would run without failures for a given period of time under predefined conditions. (There is a less chance to occur any failure, then it has 80% of restoring capability even if the system fails.)
NFR-4	Performance	Deals with measure of the systems response time under different load conditions (The application takes minimum 2 to 3 seconds to load a page and a predicted result will be displayed within 5 seconds with WIFI OR LTE connection)
NFR-5	Availability	If any of issues occurred in a model the user will receive an alert there is a problem in prediction and the system would get back within 5 to 10 minutes. The system will be available during other times.
NFR-6	Scalability	The system is scalable, more than 1,000,000 of customers can use the application at same time to know about a flight delays.