

Project Design Phase-I
Solution Architecture

Date	01 October 2022
Team ID	PNT2022TMID27642
Project Name	Developing a flight delay prediction model using Machine Learning
Maximum Marks	4 Marks

Architectural Workflow:

User view:

1. User enters flight details in the UI
2. Entered input is sent to the classifier model deployed through IBM Watson.
3. The model predicts the estimated time of departure/arrival delay and sends it to the UI.
4. The predicted value is displayed to the UI

Model view

1. The dataset is pre-processed for handling missing/categorical values.
2. Spatial and other features are extracted.
3. The features are split into training and test set.
4. A Random Forest classifier is built and is trained with the training data.
5. The model is evaluated using testing data.
6. The trained model is deployed in IBM Watson.



