

**Project Design Phase-I**  
**Solution Architecture**

Date	19 September 2022
Team ID	PNT2022TMIDxxxxxx
Project Name	Project - 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 preprocessed 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.

