# Project Design Phase-I Solution Architecture

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| Date | 01 October 2022 |
| Team ID | PNT2022TMID35251 |
| 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 sendsit 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 rained with the training data.
5. The model is evaluated using testing data.
6. The trained model is deployed in IBM Watson.

