**Project Design Phase - I Solution Architecture**

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| Date | 05 October 2022 |
| Team ID | PNT2022TMID52685 |
| Project Name | Developing a flight delay prediction model using Machine Learning |
| Maximum Marks | 4 Marks |

Architectural Workflow:

# User view:

* The user inputs flight details to the UI.
* Entered input is sent to the classifier model which is deployed through IBM Watson.
* The model predicts the estimated time of departure/arrival delay and sends it to the UI.
* The predicted value is displayed to the UI

# Model view

* The dataset is preprocessed for handling missing/categorical values.
* Spatial and other features are extracted.
* The features are split into training and test sets.
* A Random forest classifier is built and is trained using the training data.
* The model is evaluated using testing data.
* The trained model is deployed in IBM Watson

