Group B Final Project Proposal

**Objective:** to build a data model that provides insight into predicting the likelihood of a flight being delayed.

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**Source:** bts.gov

**Hypothesis:** We predict that February will be the worst month for delays due to the weather. We predict that Monday will be the worst day for delays due to the fact that it’s Monday. We predict that Southwest will have the highest percentage of delayed flights because they’re cheap.

**Our end goal:** To develop a web interface that would allow users to input data about when their flight is departing, and the interface would return the probability of that flight being delayed.

**Nice to haves:**

* Have the interface give predictions of what type of delay it will be.
  + Predict how long the delay will be.
* Data from other airports (hubs of the other 2 major airlines).
* Dynamic charts on the interface to show data relevant to their inquiry.

**Our toolkit:**

* Pandas
* SQL
* Tableau
* HTML/CSS/Bootstrap