Flight Delay Engine

By: Alberto Ponce, Ryan Karcaw, Armine Arutyunyan, Maura Ellsworth

IAH Flight Delays

total_by_reason_2022

reason	total_delays
Arrival Delay	1557771
Weather Delay	93009
National Aviation System Delay	261469
Security Delay	2287
Late Aircraft Delay	522114

IAH there are 1,557,771 minutes of delays- Equates to 3 years of delays

Flight delays cause:
- Missed connections
- Loss of vacation
- Unexpected costs such as needing to purchase a new hotel or flight

*according to google

Flight Delay

INSERT SCREENSHOT HERE

- We discovered that there is no great way to figure out how likely your flight is going to be delayed. So we built a platform to allow users to see historical data of flight delays
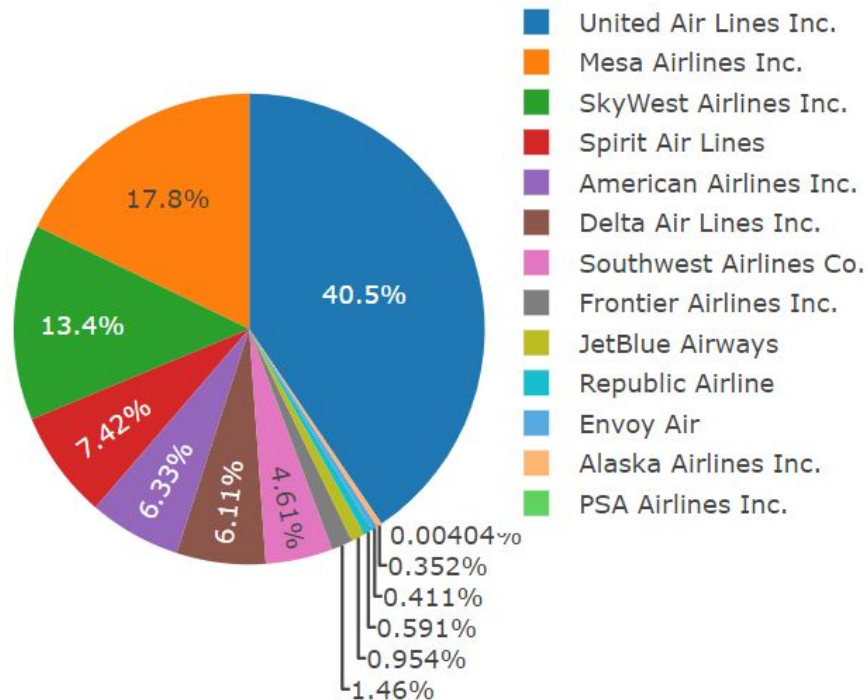
Data Collection

Web Scrapper built to pull departure delay data for George Bush Intercontinental IAH from the Bureau of Transportation Statistics for all years. This will be all domestic airlines that fly into IAH and their subsidiaries

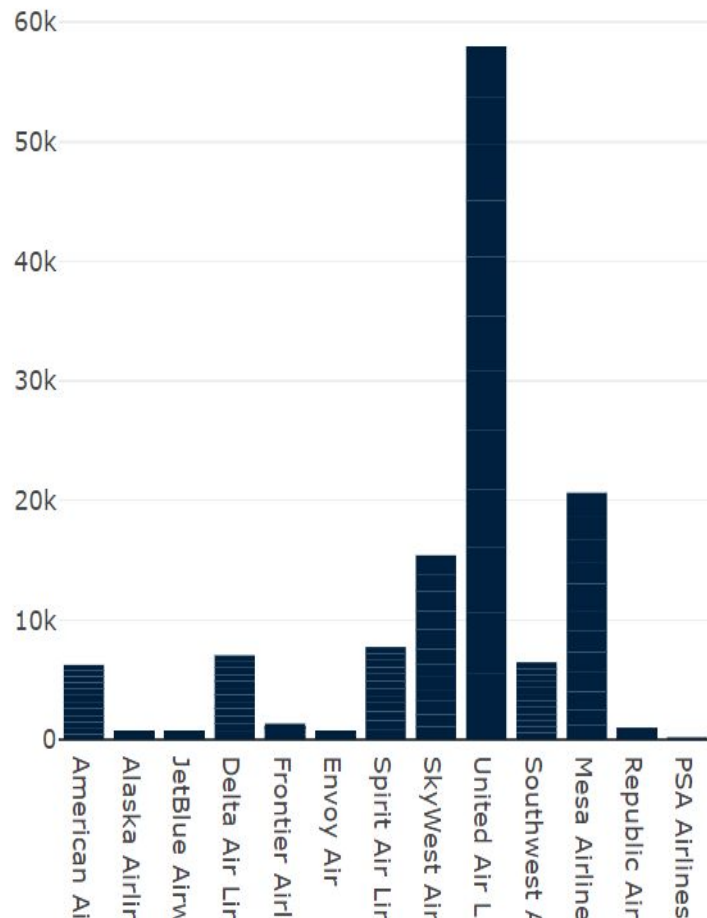This was exported into a CSV so that we could use the data fro our database and transfer into JSON

SQL Database

Armine to review this slid

2022 Delays by Airline out of IAH

- United Air Lines Inc.
- Mesa Airlines Inc.
- SkyWest Airlines Inc.
- Spirit Air Lines
- American Airlines Inc.
- Delta Air Lines Inc.
- Southwest Airlines Co.
- Frontier Airlines Inc.
- JetBlue Airways
- Republic Airline
- Envoy Air
- Alaska Airlines Inc.
- PSA Airlines Inc.

40.5%
17.8%
13.4%
7.42%
6.33%
6.11%
4.61%
0.00404%
0.352%
0.411%
0.591%
0.954%
1.46%

Number of Flights in 2022 out of IAH

DATA VISUALIZATIONS

FRONT END DEVELOPMENT

LIVE DEMO