

# Beta Presentation Aircraft Appearance Assessment Tool

The Capstone Experience

Team United Airlines Quality Assurance

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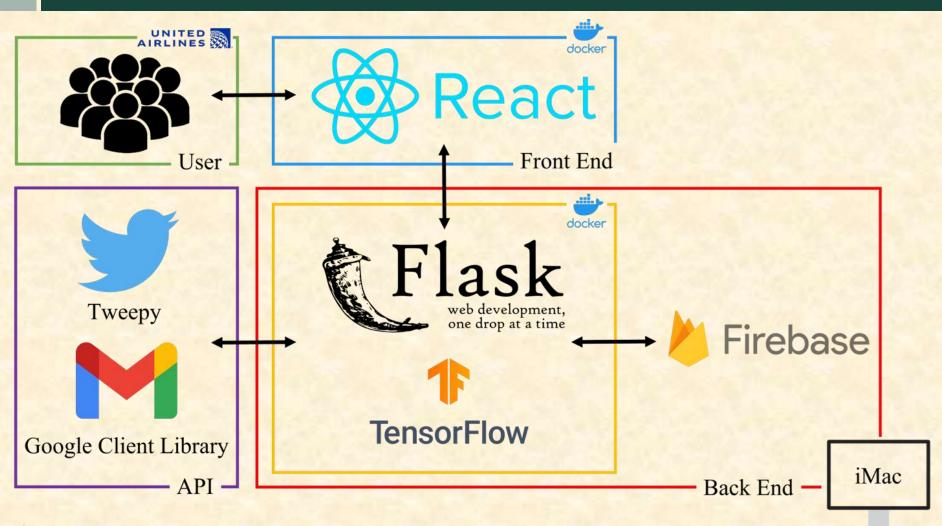
Spring 2023



#### **Project Overview**

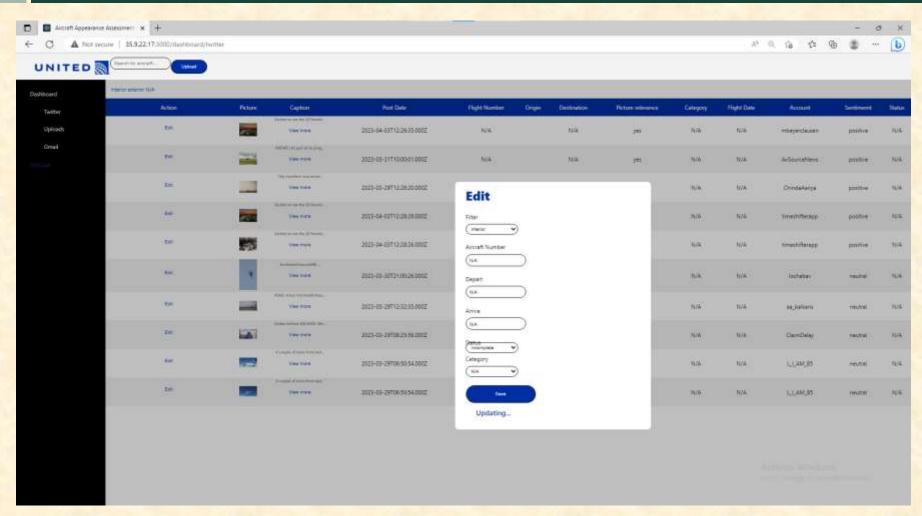
- Automatic paint quality assessment of aircraft exteriors
  - Manual uploads
  - Gmail
- Search for aircrafts with specific identification number
- Sentiment analysis of tweets with images
- Interior/Exterior classification of images from Twitter

### System Architecture

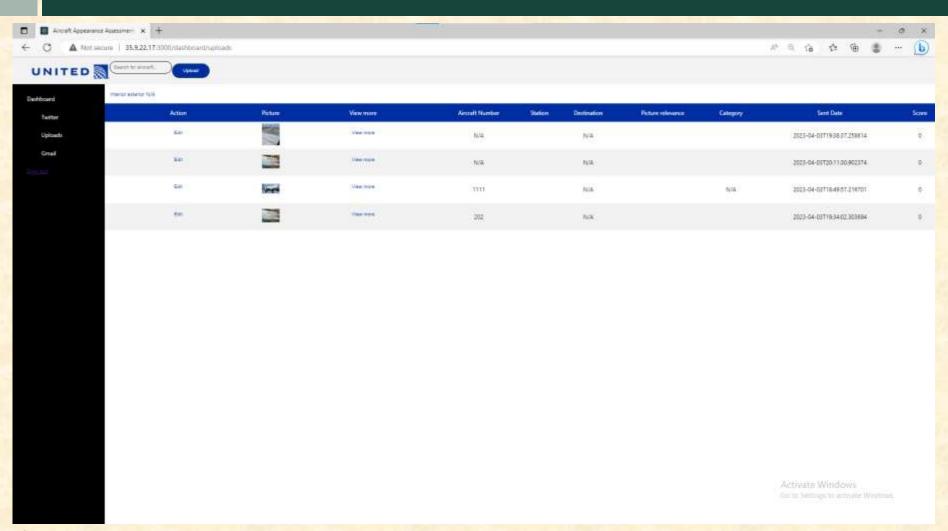




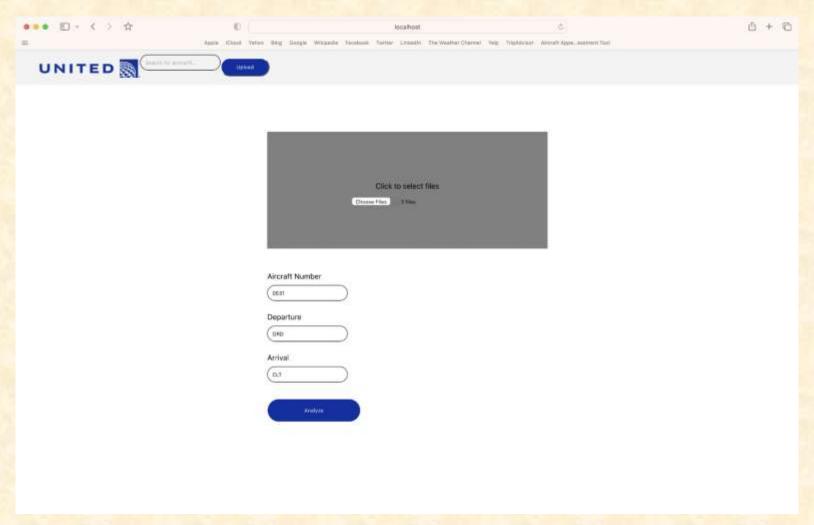
#### **Edit Window**



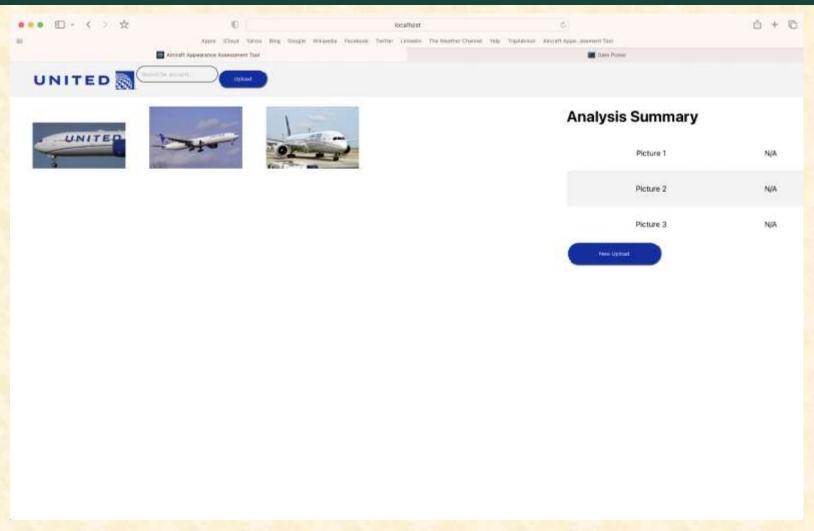
## Dashboard Page



# **Upload Page**



#### Summary Page



#### What's left to do?

- Front-End:
  - Ul updates
  - Sign out page
- Back-End:
  - Fix performance issues with heavy tasks
- Machine Learning:
  - Fine-tune aircraft paint score model

#### Questions?

