Problem Statement

Boarding a flight can be very time-consuming especially at the point where validation of

The individual documents need to be done manually. What if airports are equipped with

Technology to make this whole experience faster and more convenient and at the same time

save cost?

My objective is to build an automated boarding kiosk for the customers to stand in front of and quickly have their documents and identity validated. This will enhance their experience when boarding.

Business Considerations

Here are the few reasons we are developing this solution:

- Automation

- Use of technology to improve the boarding experience

- Increase the number of clients

Solution Strategy Walkthrough

- The system will use Azure Form Recognizer to extract information from identification cards and boarding passes.

- Azure Computer Vision, Face services, and Video Analyzer will be used to match a given passenger's face from digital ID with the face extracted from a 30-second video. The same video will also be used to extract the passenger's emotions.

- WE will also detect if a passenger's carry-on items include a lighter or not. We will use Azure cognitive service-based computer vision resources to build a custom lighter detection model first and use the custom model to detect lighter probability in given test images.