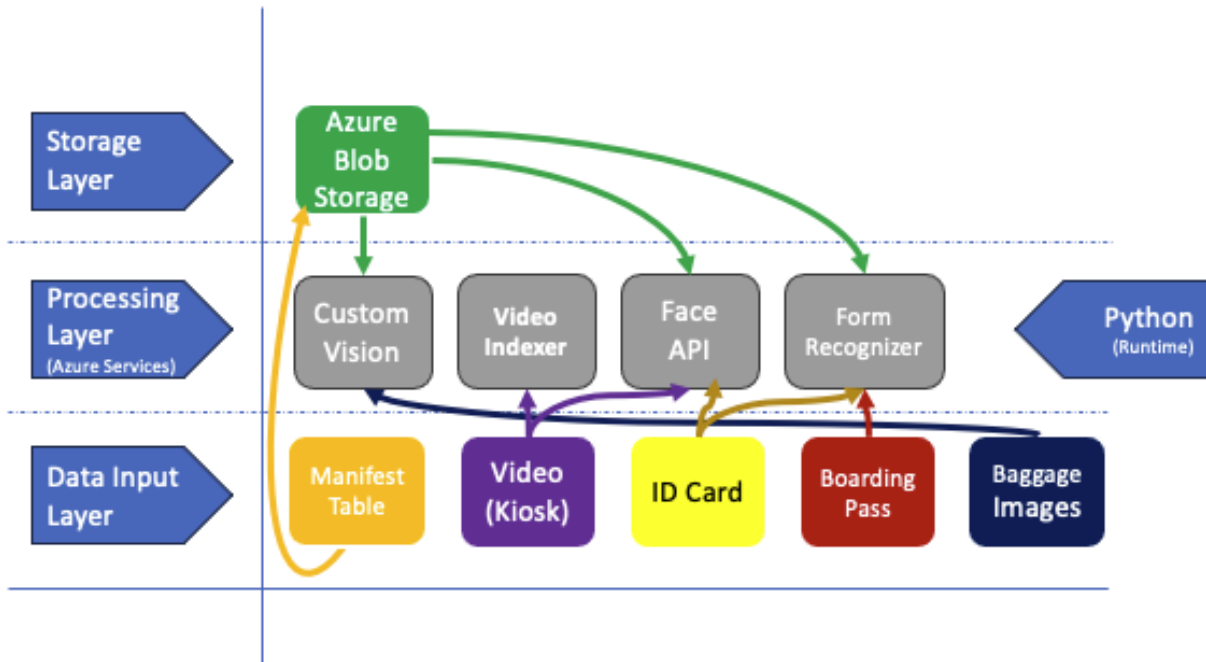


Architecture Diagram



For this Project we have several activities and components (ID Card, Manifest Table, Boarding Pass and Baggage images).

Here is the list of interactions:

- As we can see above, we have 3 layers for our architecture as storage, processing and input;
- We store all data at the Azure Blob Storage;
- At the processing layer we can Azure Vision services as Custom Vision, Video Indexer, Face API and Form Recognizer;
- The Manifest table, presented during the material preparation, is table that lists the flight information for all passengers;
- The Video Indexer will be used to match a passenger face from ID Card with the face extracted from a passenger's 30 second video;
- The Form Recognizer will be used to train a model to extract information from ID Card and Boarding Pass;
- The Custom Vision will be used first to build a custom detection model and then use this model to detect probability in given images.