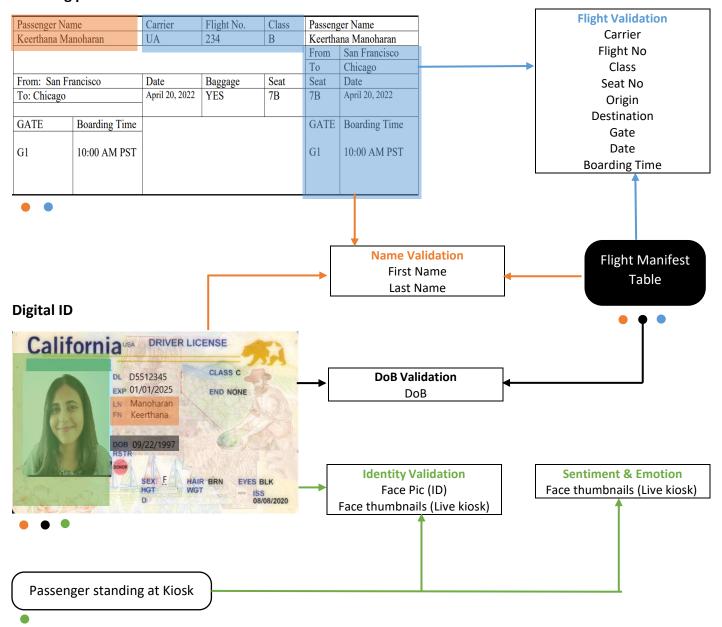
Automated Passenger Boarding Kiosk – Data Flow Diagram

Boarding pass



3-Way Person Name Validation

The first and last name extracted from the boarding pass and ID card must match with the name on the flight manifest table

DoB Validation

DoB extracted from the ID card match with the flight manifest table

Boarding Pass Validation

Various flight-specific information extracted from the boarding pass is matched with the flight manifest table. The information includes flight number, seat number, class, origin, destination, flight date, and flight time

Person Identity Validation

Face extracted from the ID and that from the video should match, and the match result should be 65% or higher

Luggage Validation

The carry-on loose items in the passenger's pocket contain a lighter in it or not

Note: For luggage validation, you can leave all values as FALSE in the manifest table, since we don't have a way to match luggage validation with passengers.