

# FlightScraper

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01

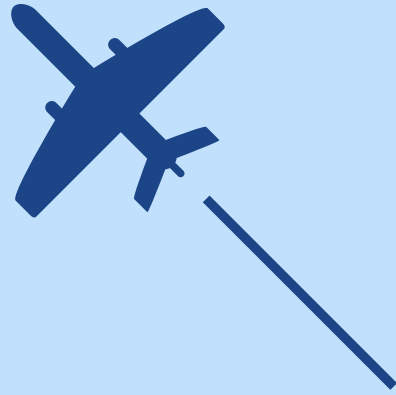
# Solution Scoping



# Brief Description

## FlightScraper:

- Web-based solution
- Search for desired flights
- Place bookings for flights
- Make payment via PayPal
- Edit booking
- Check-in online
- Cancel booking
- Viewing of admin dashboard and admin configuration



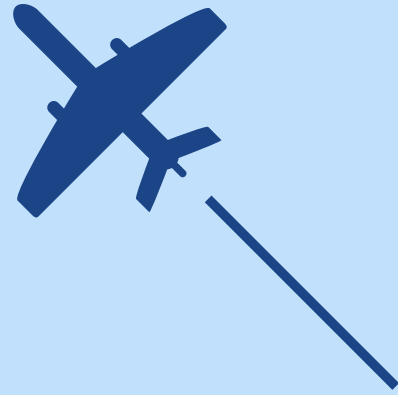
02

## Scenario Diagrams



# Scenario 1

## Passenger:

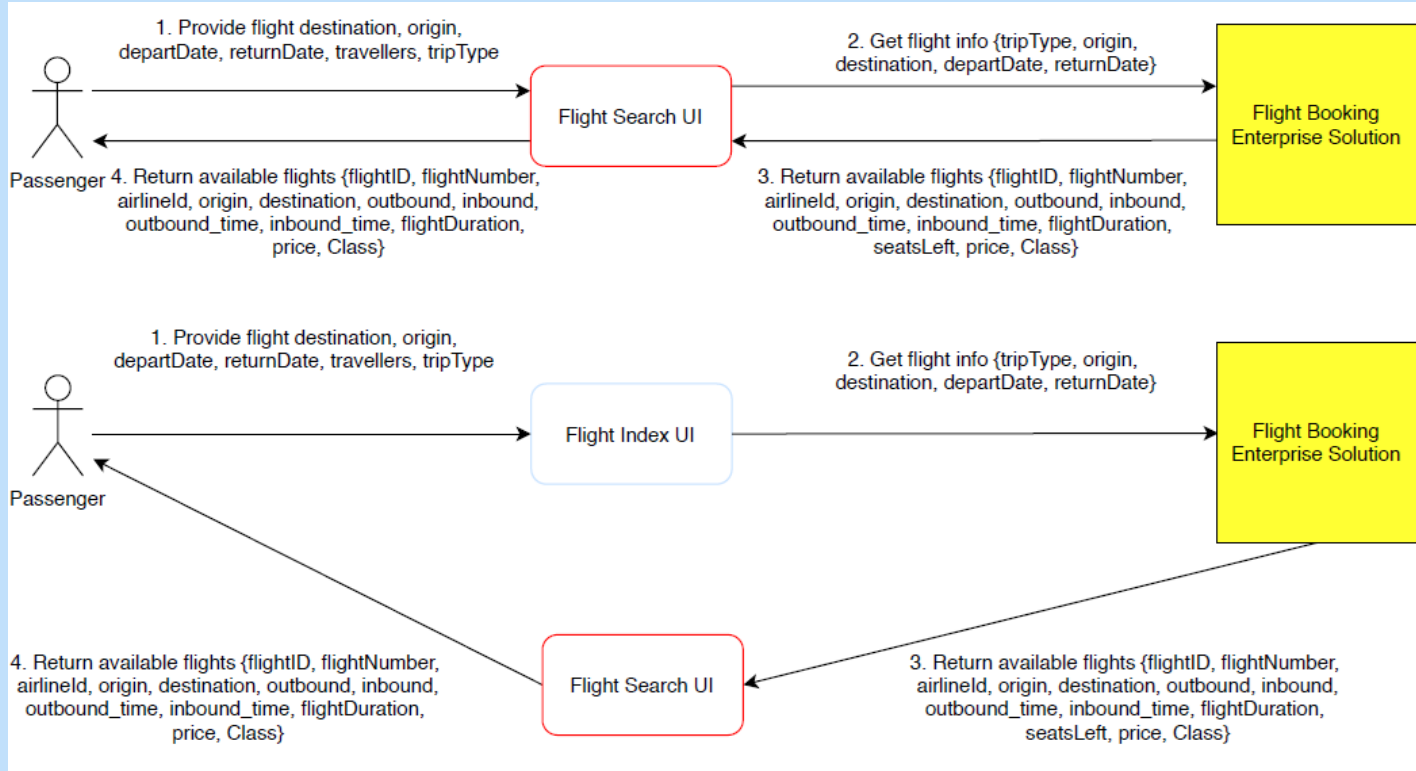


### 1) Passenger searches and selects a flight

- User enters the homepage of the website which comprises of Flight Search UI
- User enters his/her flight criteria such as origin, destination, flight dates and number of co-passengers
- A list of flights matching the criteria given will be displayed.

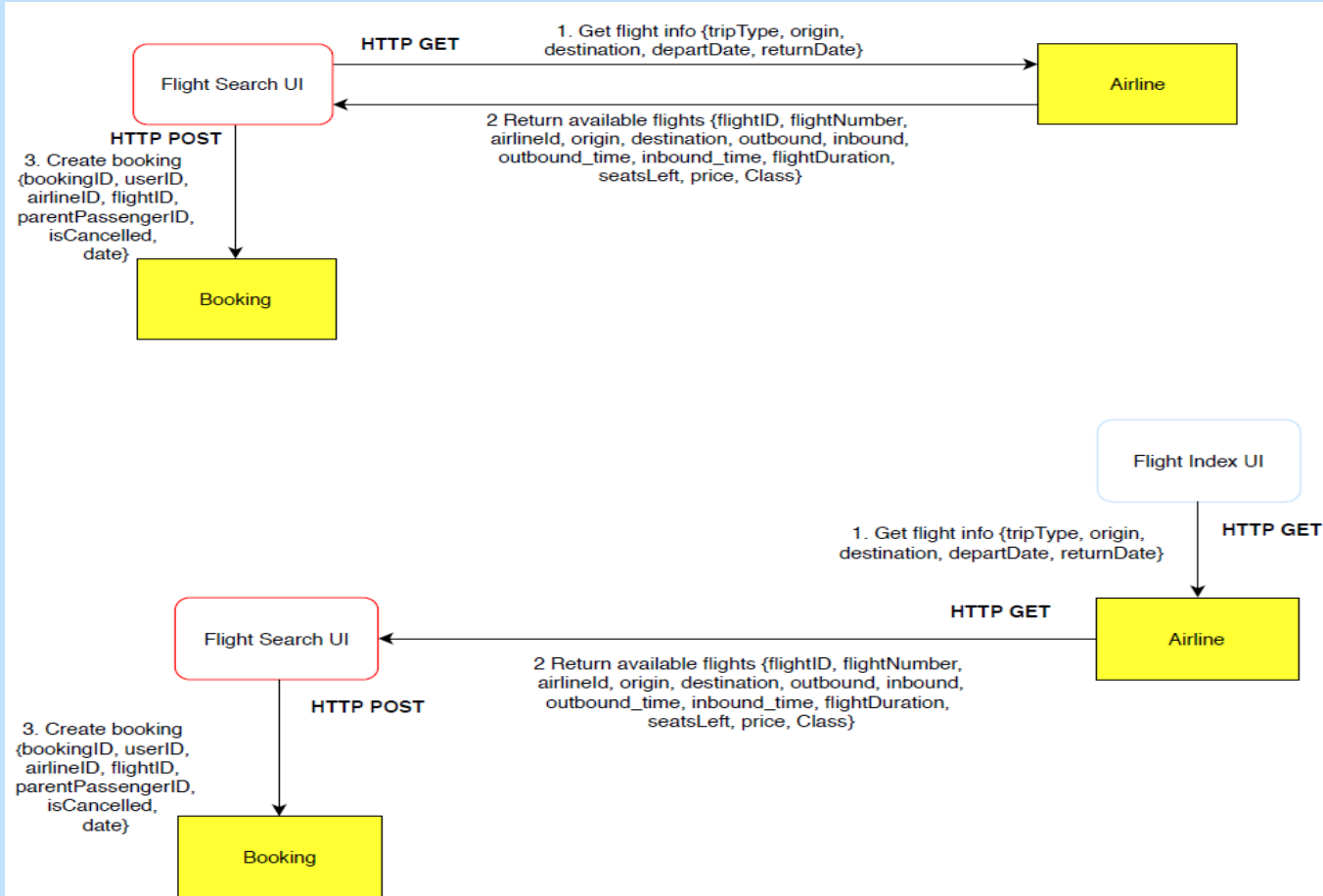
# Scenario Overview Diagram 1

## - Passenger searches for flight



# User Scenario Diagram 1

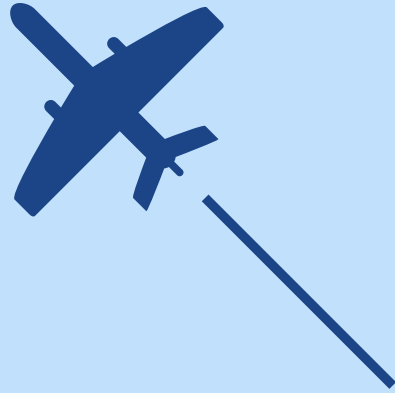
## - Passenger searches for flight





# Scenario 2

## Passenger:

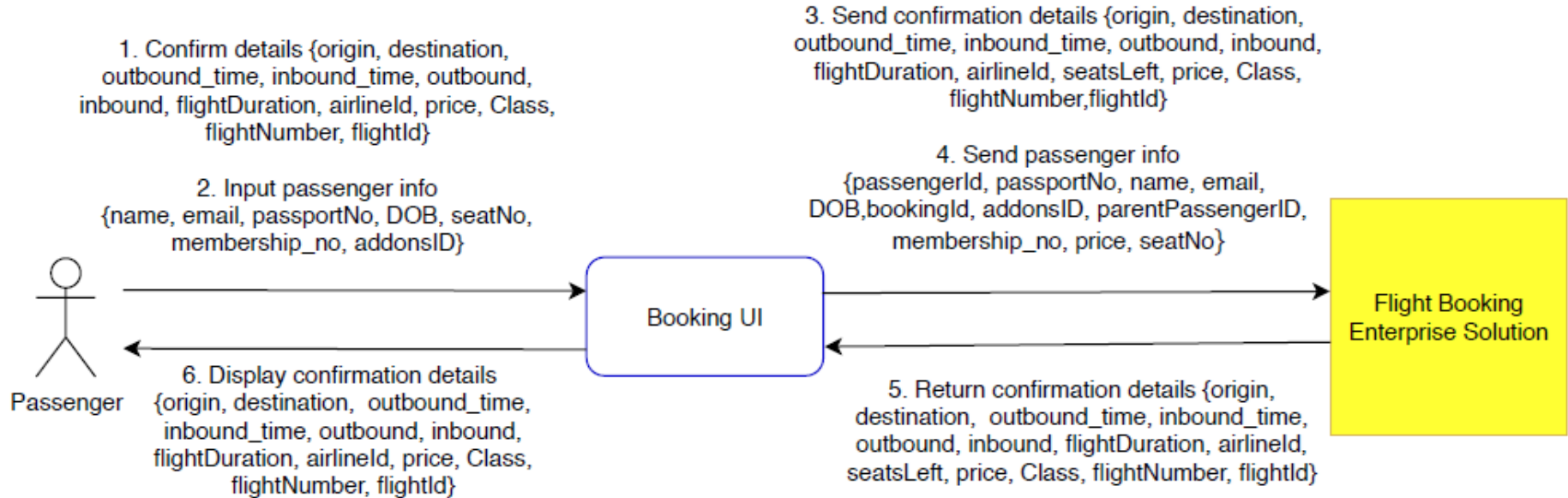


### 2) Passenger books for selected flight

- After user selects the desired flight, user will be redirected to the Booking UI.
- User is then required to fill in the details of his/her information as well as other co-passengers involved in the flight.

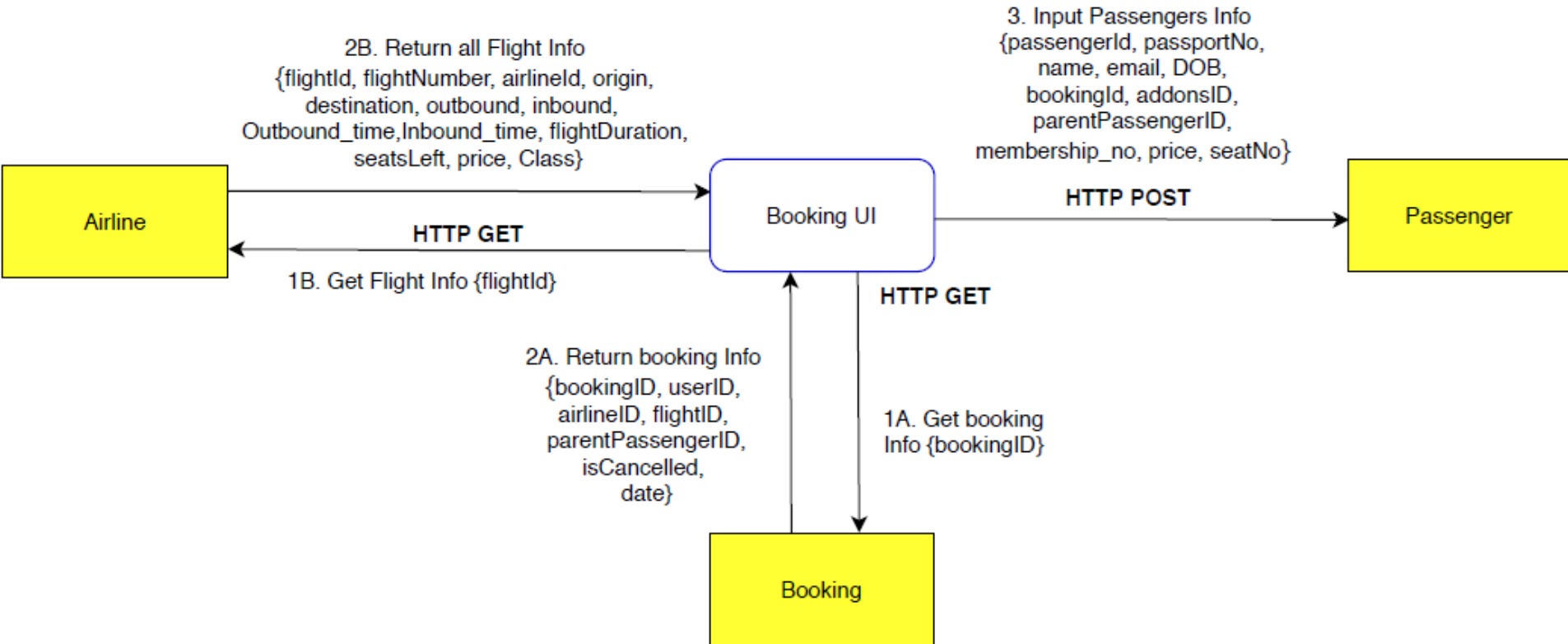
# Scenario Overview Diagram 2

## - Passenger books for selected flight



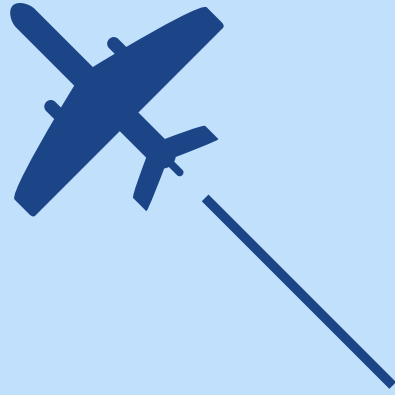
# User Scenario Diagram 2

- Passenger books for selected flight



# Scenario 3

## Passenger:

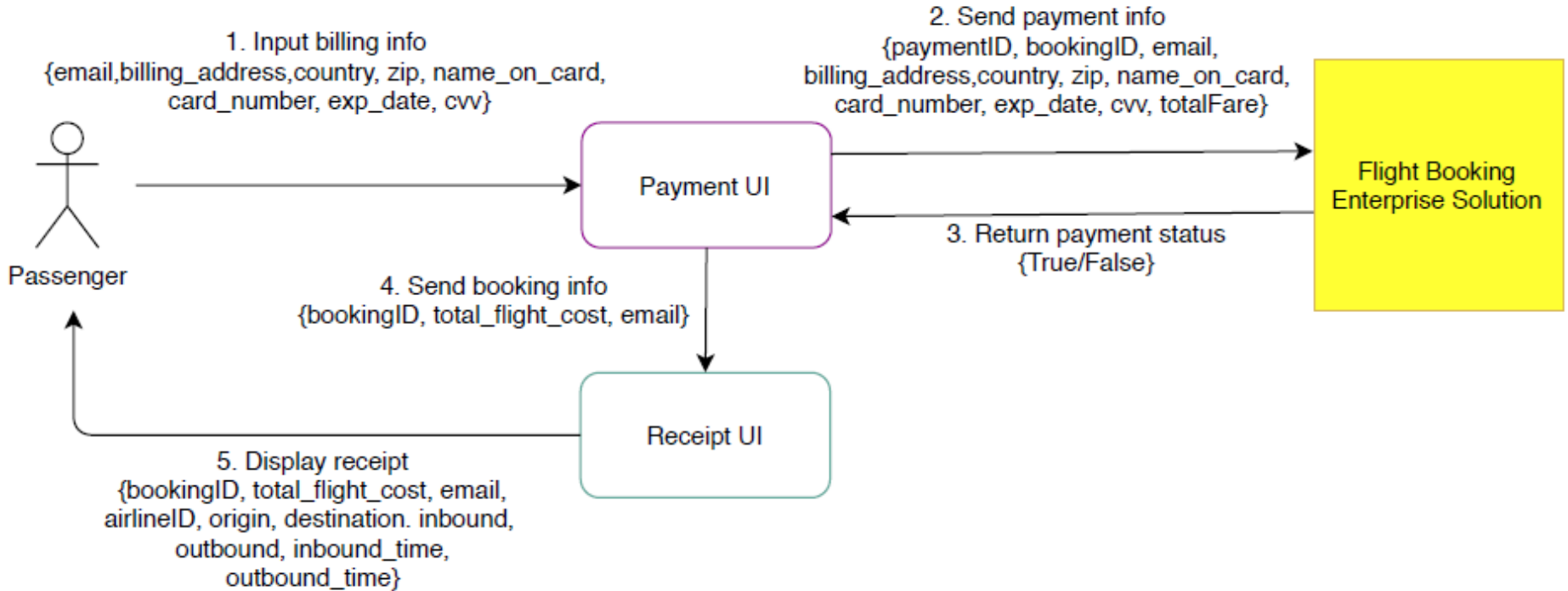


### 3) Passenger pays for booking

- After confirming the booking details user will proceed to make payment at payment UI, using **PayPal API**.
- Upon successful payment, user will be presented with an **online receipt** and **an email will be sent to the user**

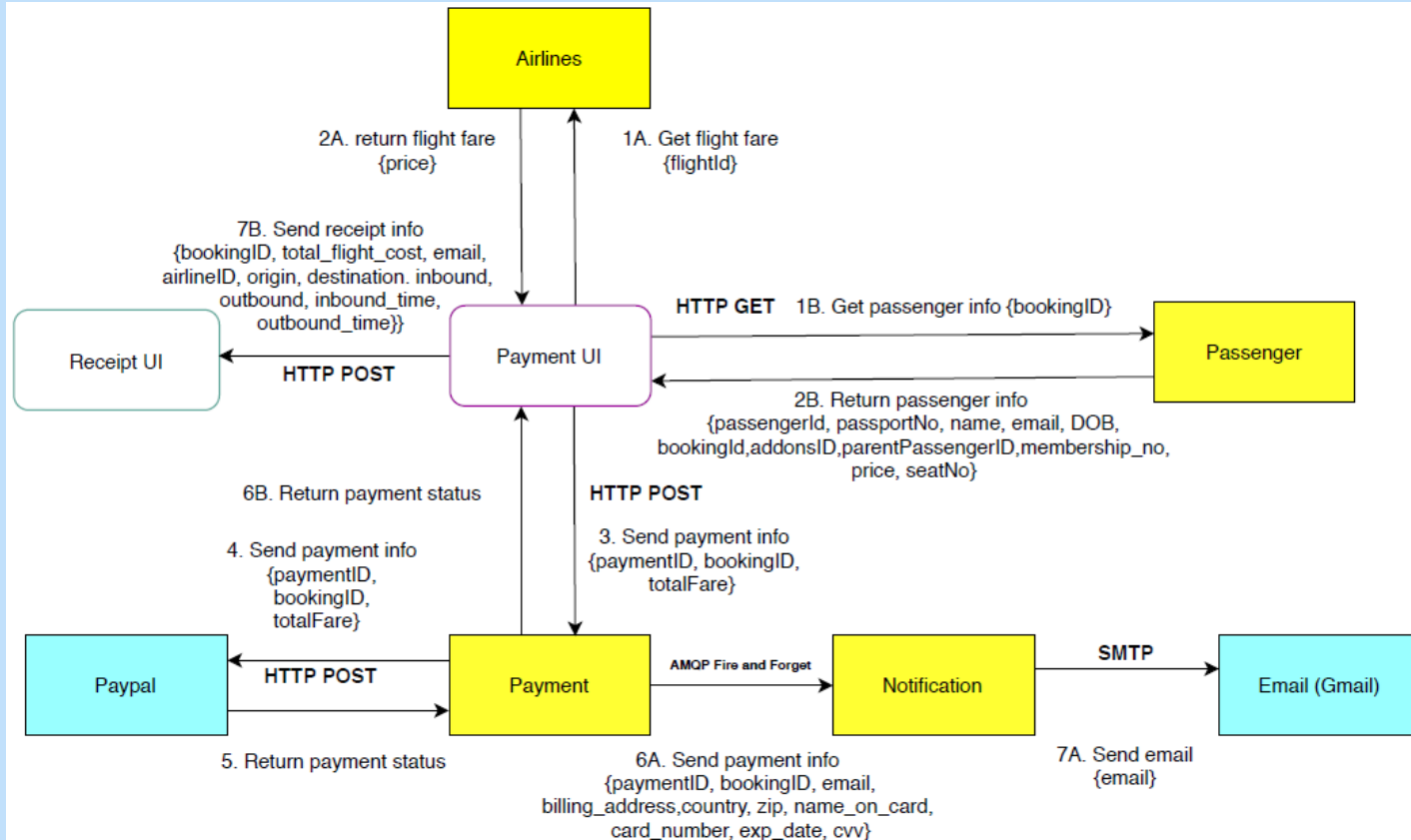
# Scenario Overview Diagram 3

## - Passenger pays for booking



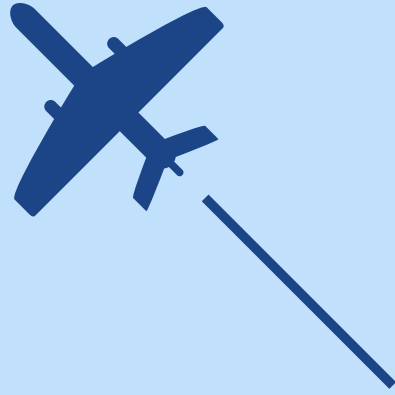
# User Scenario Diagram 3

## - Passenger pays for booking



# Scenario 4

## Passenger:

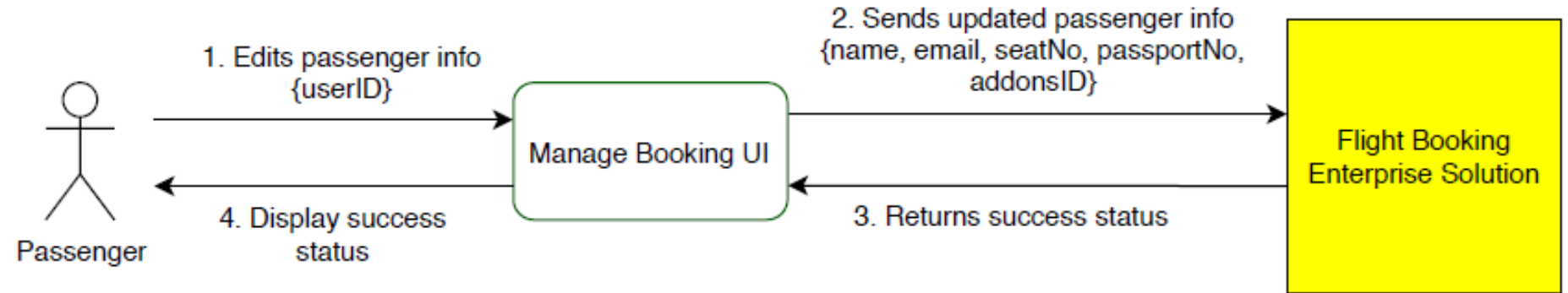


### 4) Passenger edits passenger info

- Passenger edits their info at the Manage Booking UI

# Scenario Overview Diagram 4

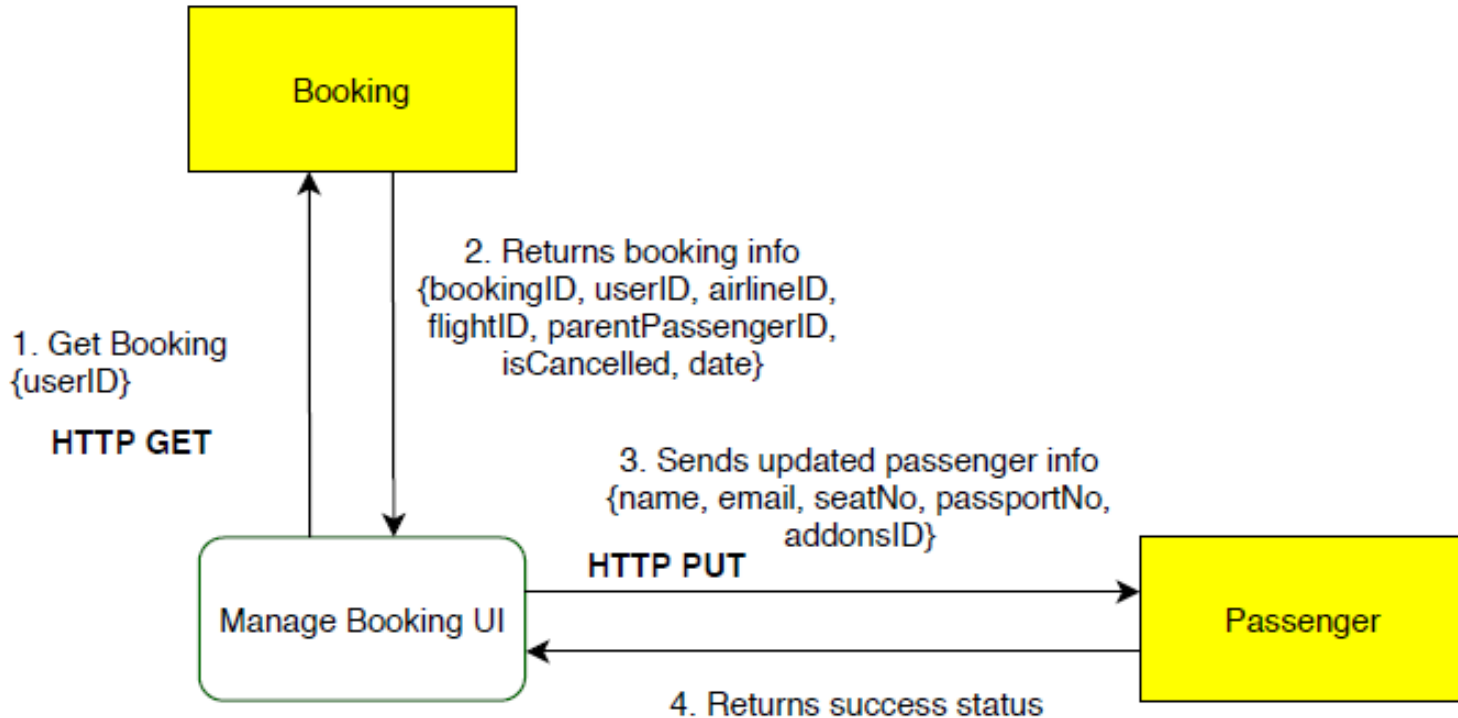
- Passenger edits passenger info





# User Scenario Diagram 4

- Passenger edits passenger info



# Scenario 5

## Passenger:

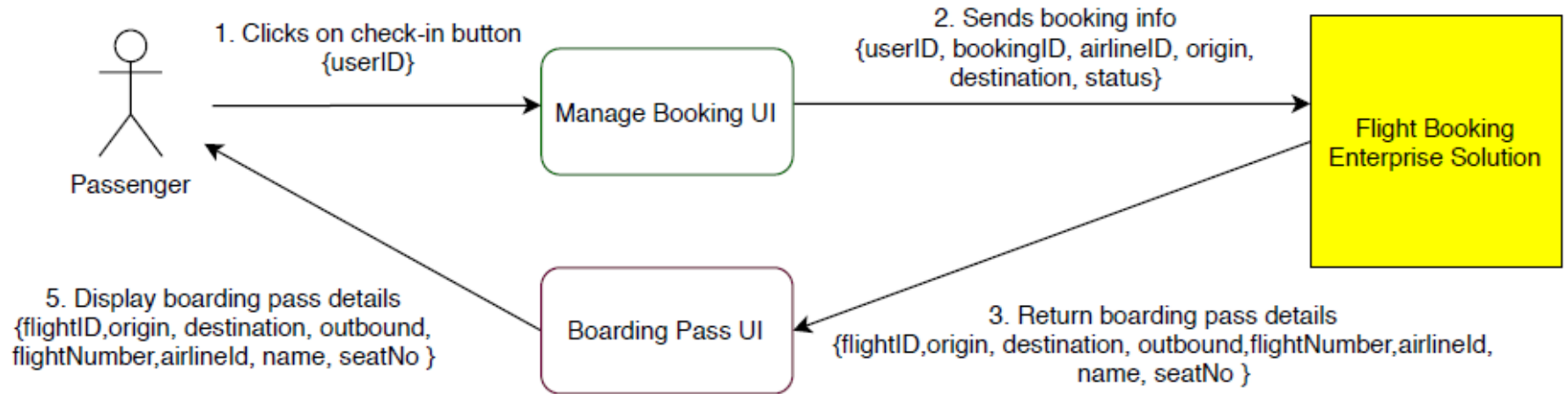


### 5) Passenger checks-in

- User can navigate to the manage booking UI which displays a list of bookings made by the user
- **Each booking will have 3 options:** check-in, cancel and update details of the selected booking.
- If check-in is selected, status will then be updated and boarding tickets with passengers' details will be available for printing.

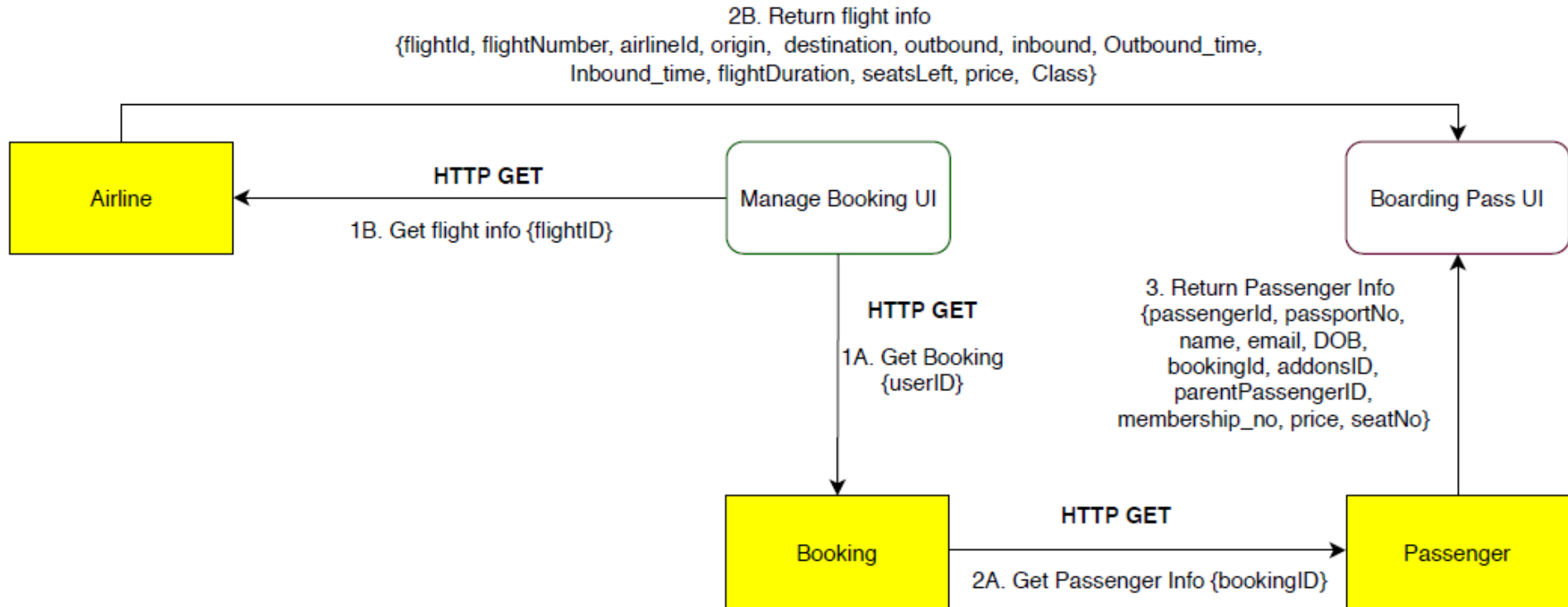
# Scenario Overview Diagram 5

## - Passenger checks in



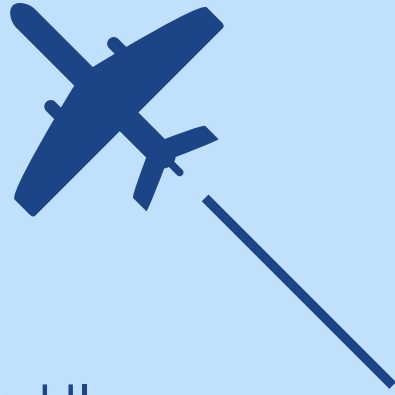
# User Scenario Diagram 5

## - Passenger checks in



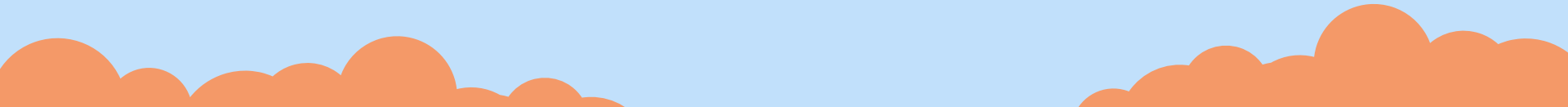
# Scenario 6

## Passenger:



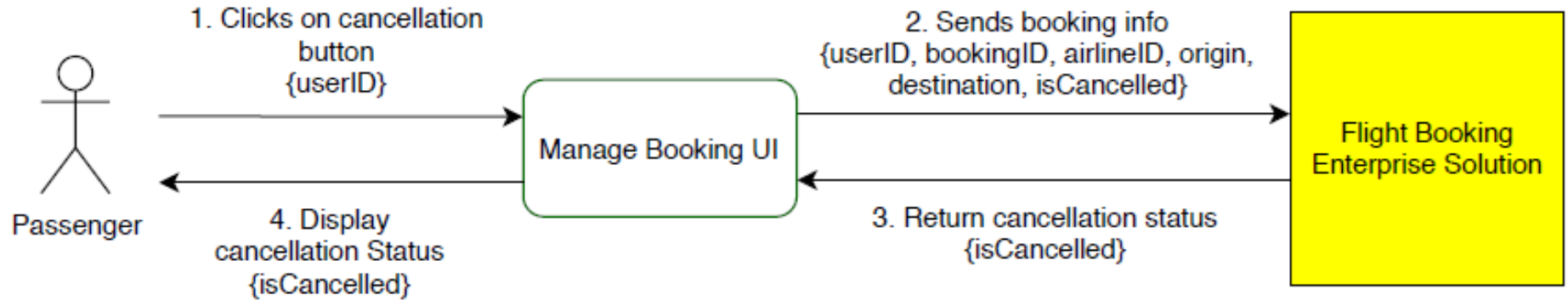
### 6) Passenger cancels a booking

- Passenger cancels their booking at the Manage Booking UI



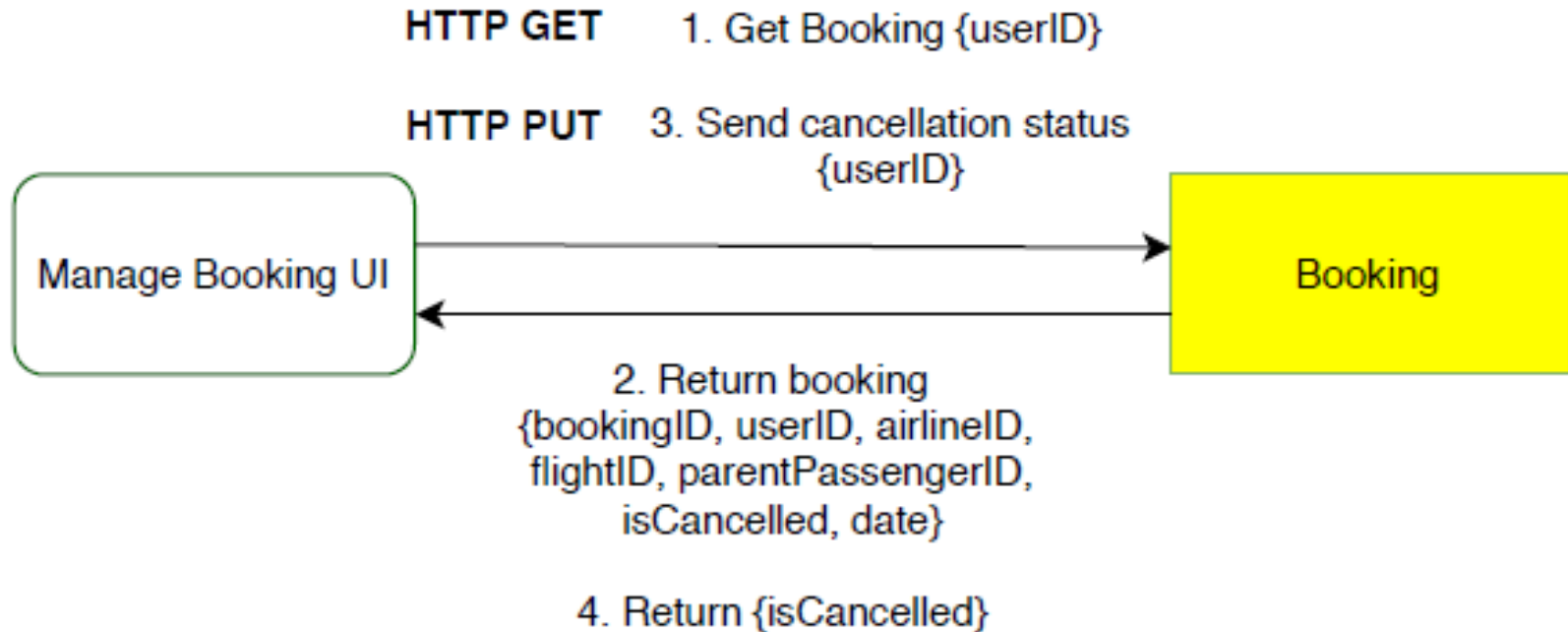
# Scenario Overview Diagram 6

## - Passenger cancels booking



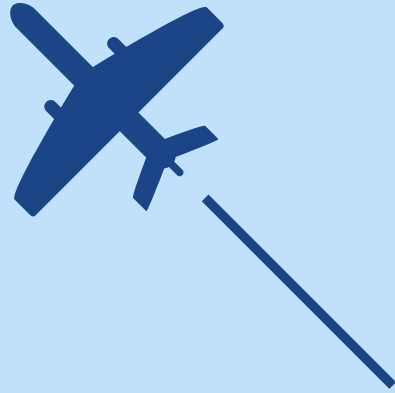
# User Scenario Diagram 6

- Passenger cancels booking



# Scenario 7

## Airlines:



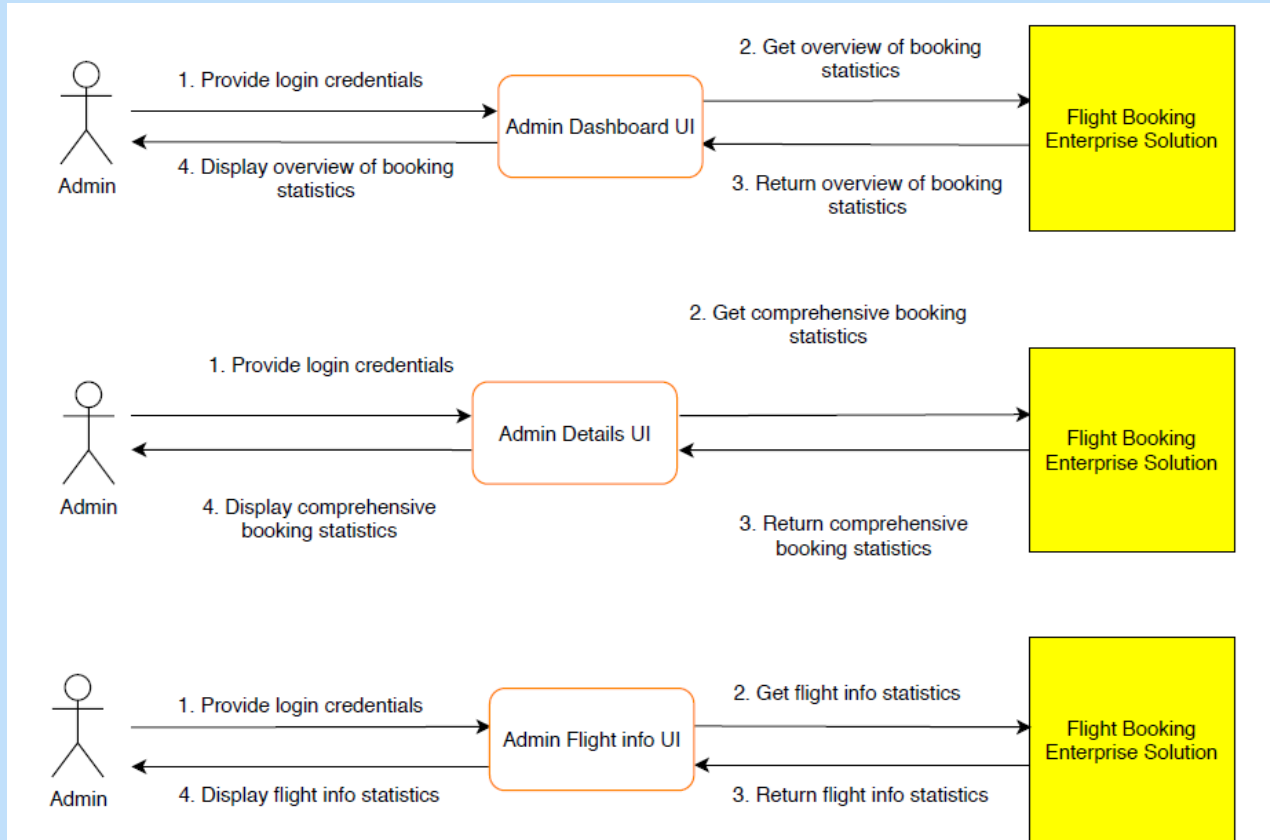
### 1) Admin views statistics

- Requires log in.
- Once admin logs in, admin is able to see an overview of booking details as well as specific booking details and flight information



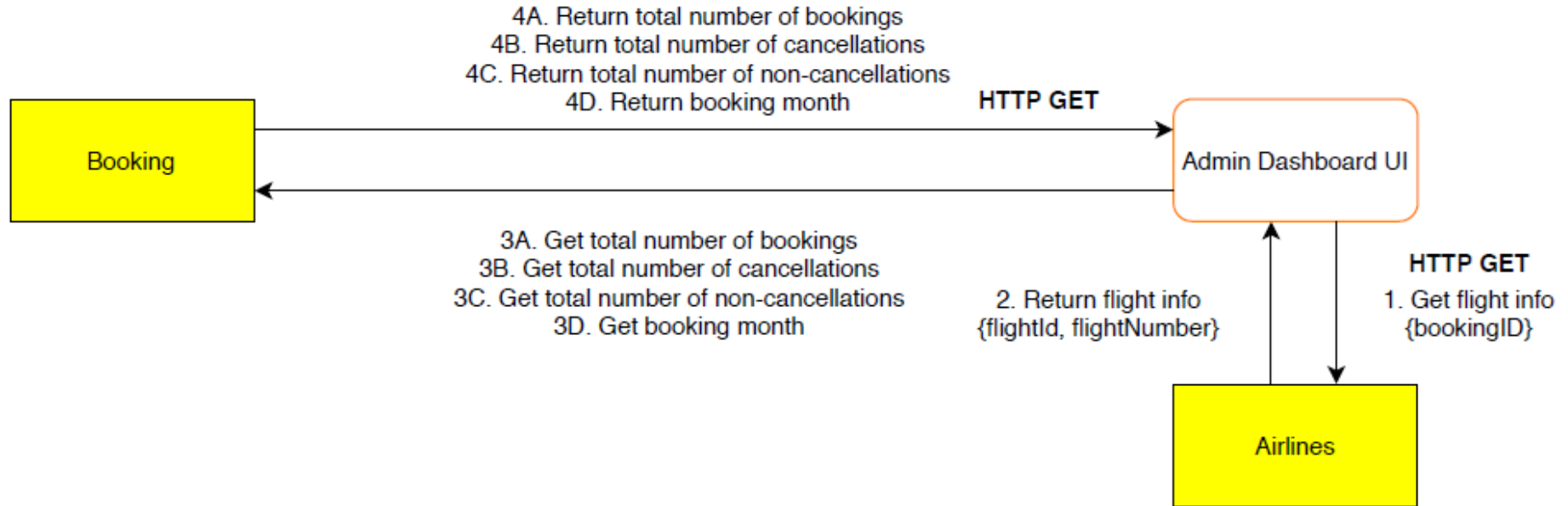
# Scenario Overview Diagram 7

## - Admin views statistics



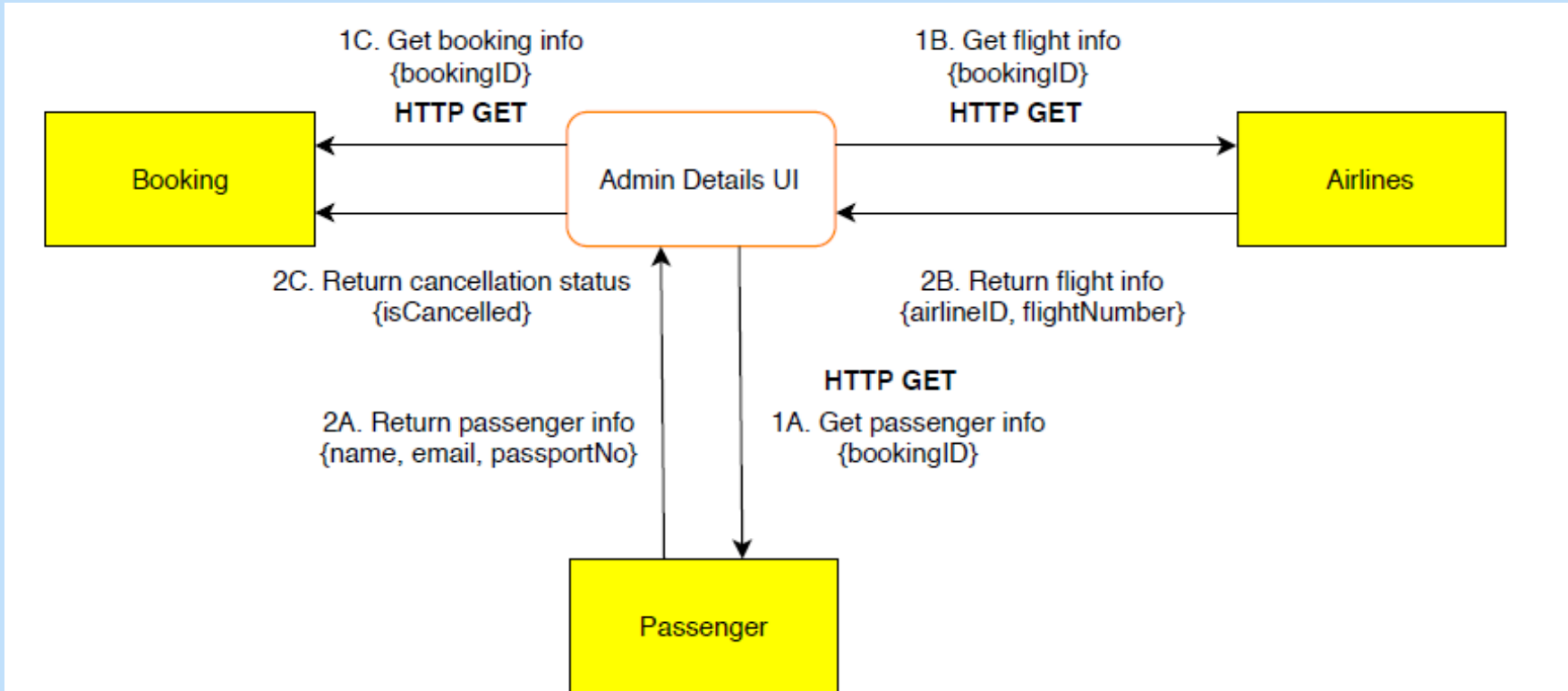
# User Scenario Diagram 7

- Admin views statistics (overview)



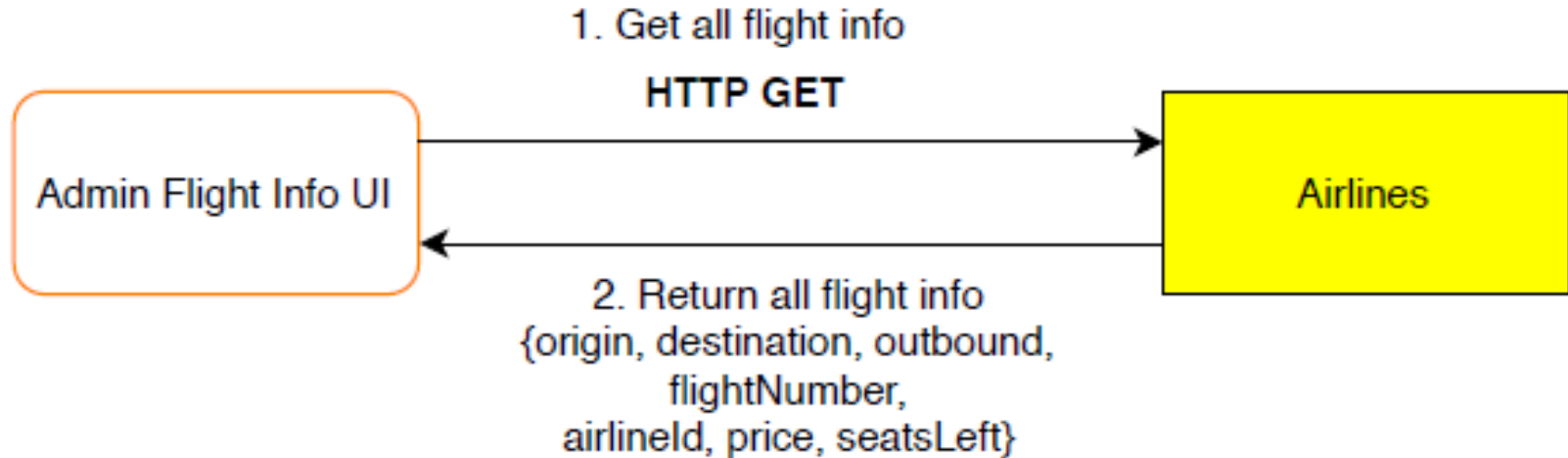
# User Scenario Diagram 7

- Admin views statistics (comprehensive)



# User Scenario Diagram 7

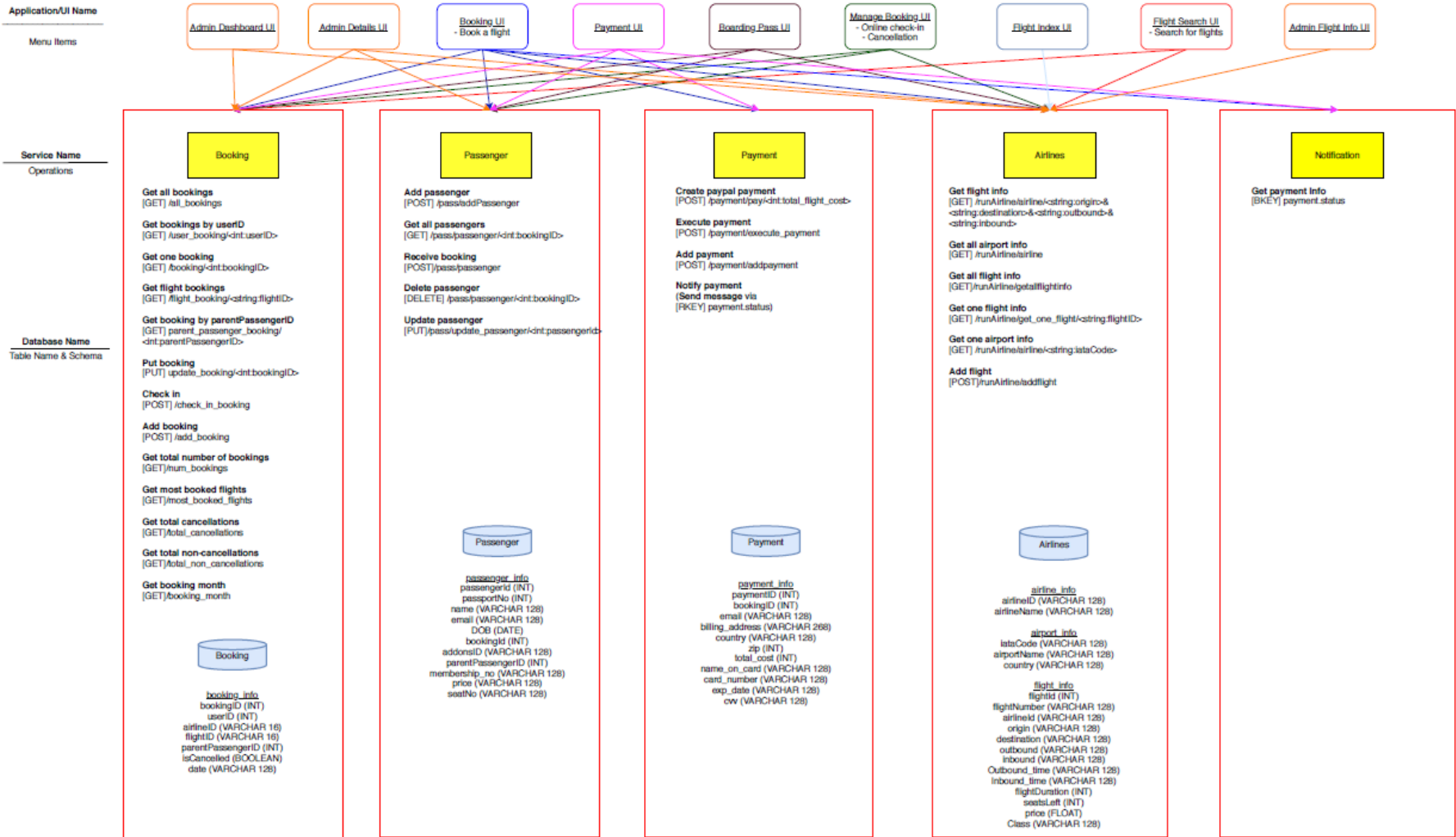
- Admin views statistics



03

# Technical Overview Diagram

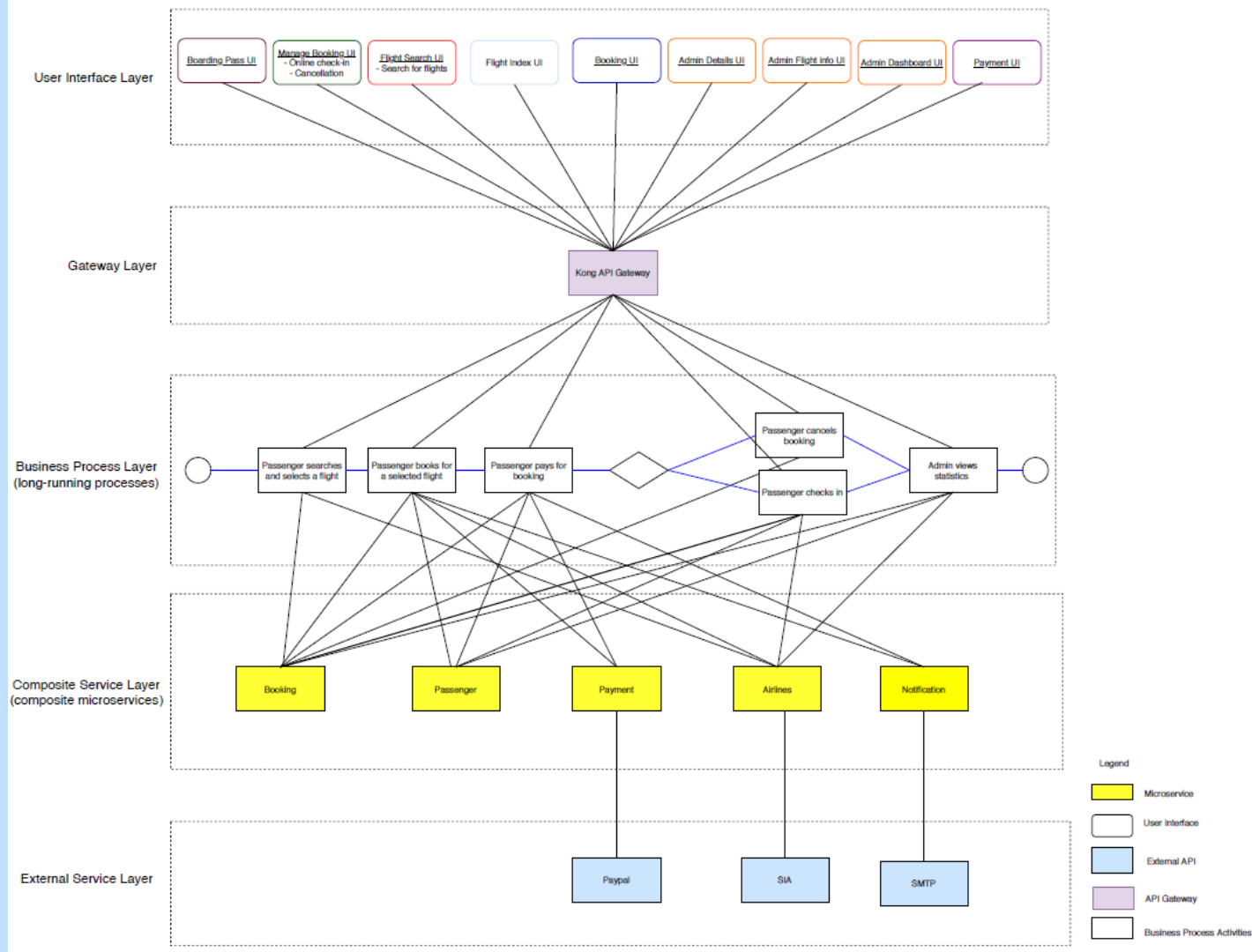




04

# Service-oriented Architecture







05

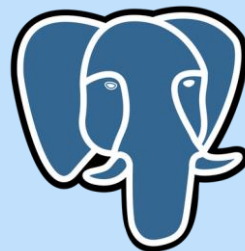
# Beyond the Labs



# Beyond the Labs



AnyChart



PostgreSQL



Kong



Cron  
Job

# Demo

[https://youtu.be/ys\]ClZZ1zgI](https://youtu.be/ys]ClZZ1zgI)

