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Re-Lab 3: Architecture Design

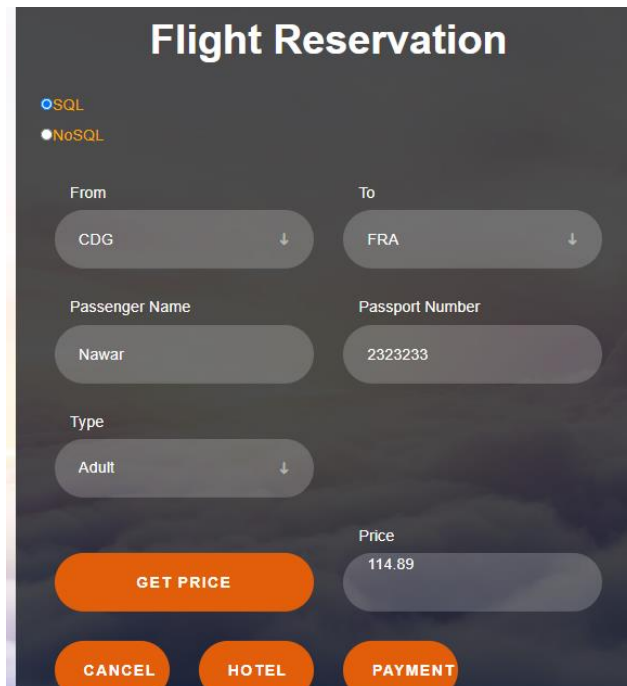
Nawar Aghi

1. Program Overview

This re-lab provides these services for the user:
FRS -> HRS -> PS

1.1. FRS

Flight Reservation Service is a service where the user can book a flight and either go to payment service or hotel service

A screenshot of a mobile application interface for a Flight Reservation Service. The title "Flight Reservation" is at the top. Below it are two radio buttons for "SQL" (selected) and "NoSQL". The form contains several input fields: "From" (CDG), "To" (FRA), "Passenger Name" (Nawar), "Passport Number" (2323233), and "Type" (Adult). A "GET PRICE" button is located below the "Type" field. To the right of this button, the "Price" is displayed as 114.89. At the bottom, there are three buttons: "CANCEL", "HOTEL", and "PAYMENT".

Field	Value
From	CDG
To	FRA
Passenger Name	Nawar
Passport Number	2323233
Type	Adult
Price	114.89

The user has the ability to choose the departure and arrival airports. However, this service does not provide all routes to all airports. Therefore, the arrival airport depends on the departure airport. In addition, the user can check the price before moving to another service.

This service provides SQL and NoSQL connections to the database.

1.2. HRS

Hotel Reservation Service is a service where the user can book a hotel alongside the flight. After booking a hotel, the user can do check out to see the total price of hotel and flight services.

Hotel Reservation

☒ SQL
☐ NoSQL

Hotel
The Westin Excelsior ↓

No.Nights
3

Arrival Date
2020-06-27 📅

Price
[Empty input field]

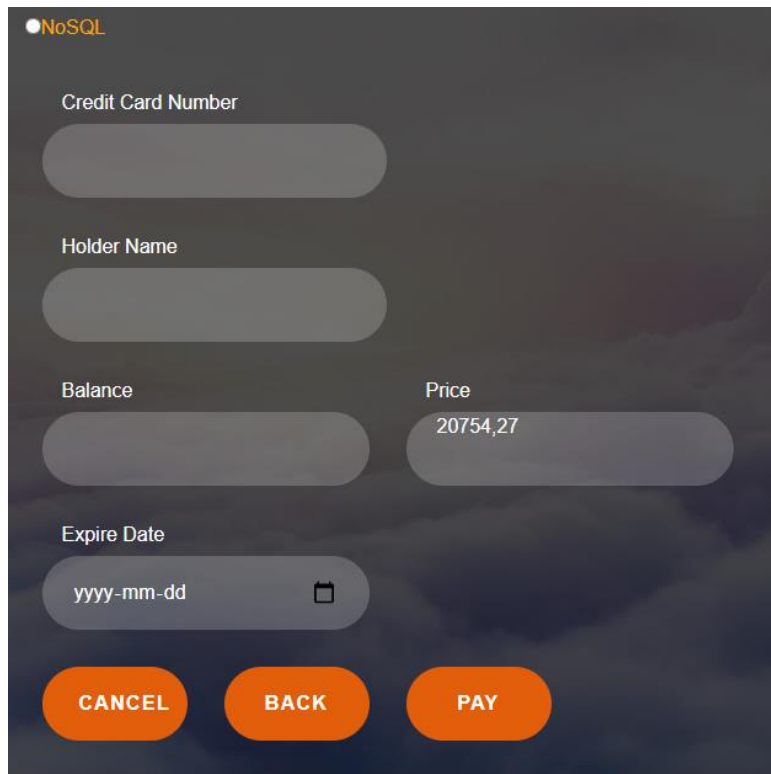
GET PRICE

CANCEL BACK PAYMENT

The user can choose a hotel, number of nights, and arrival date. In addition, the user can check the price of this reservation. However, the database does not have a lot of hotels. Therefore, the user has to choose from the available hotels.

1.3. PS

Payment service is a service where the user can pay the total price of the reservations.



A credit card payment form with a dark background and orange accents. The form includes input fields for 'Credit Card Number', 'Holder Name', 'Balance', and 'Expire Date'. The 'Price' field is pre-filled with '20754,27'. At the bottom are three orange buttons: 'CANCEL', 'BACK', and 'PAY'. A 'NoSQL' logo is in the top left corner.

● NoSQL

Credit Card Number

Holder Name

Balance

Price

20754,27

Expire Date

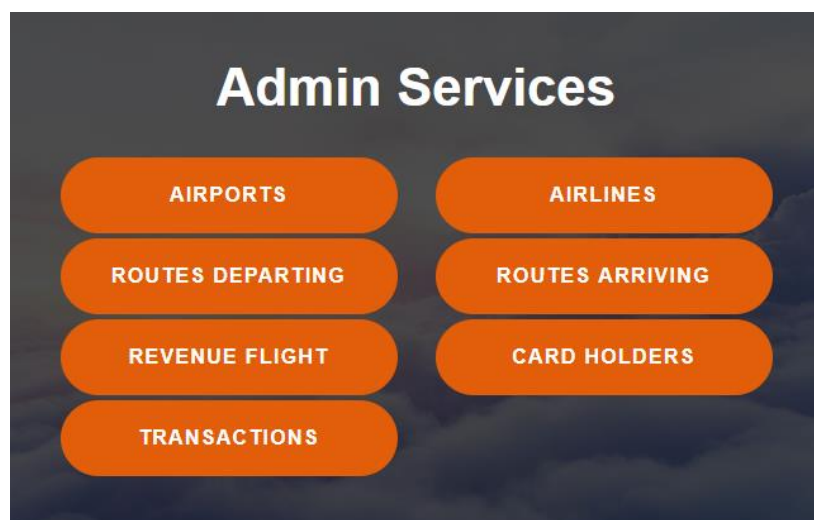
yyyy-mm-dd

CANCEL BACK PAY

The user has to enter credit card number, holder name, balance, and expire date of the credit card. However, the balance must be greater than the price.

1.4. Admin Page

This is a reporting page which contains several reports.



Route Departing Services

☒ SQL

☐ NoSQL

CDG

FETCH DATA

Id	Carrier	Dep	Arr	City	FlightNmb
3	JB	CDG	FRA	Paris	444
7	JB	CDG	CPH	Paris	777

BACK

Transactions Services

☒ SQL

☐ NoSQL

2211122

FETCH DATA

Date	Card	Amount
2020-06-19 00:00:00	2211122	6903,05

BACK

2. Database Design

