Use cases:

localhost3000/home: homepage where user can either login, register or search for the flight without logging in. Can view 30days flights

Query used: **"SELECT * FROM Flight" (I filtered each flight afterwards. See app.get("/home) in the backend)**

/login: user can either login as client or staff.
/clientlogin:

Query: `**SELECT * FROM Customer WHERE email = '${email}'**`

/stafflogin:

`**SELECT * FROM Airline_Staff WHERE username = '${username}'**`

/register: can register as client or staff.
/clientregister:

`**INSERT INTO Customer**
   (email, password, name, building_num, street, city, state, phone_num, passport_num, passport_exp_date, passport_country, date_of_birth)
   VALUES ('${email}', '${hashedPassword}', '${name}', '${building}', '${street}', '${city}', '${state}', '${phone}', '${passportnumber}', '${passportexpire}', '${passportcountry}', '${birthday}')`

/staffregister:

`**INSERT INTO Airline_Staff**
   (airline_name, username, password, first_name, last_name, date_of_birth)
   VALUES ('${airline_name}', '${name}', '${hashedPassword}', '${first_name}', '${last_name}', '${date_of_birth}')`

/publicsearch: can find flights via form

`**SELECT * FROM Flight WHERE dept_airport='${sourceCity}' AND arr_airport ='${destination}'`**

/clienthomepage: main menu for clients

/viewflight: client can see their purchased flights

```
`SELECT *
    FROM Flight
    WHERE airline_name = ?
    AND flight_num IN
    (
       SELECT Ticket.flight_num
       FROM Ticket
       WHERE Ticket.ID IN
       (
          SELECT Purchase.ticket_id
          FROM Purchase
          WHERE Purchase.email = ?
       )
    )`
```

/clientsearch: client can search flight and purchase tickets for the flight

/purchaseticket: client can purchase via card info

```
`INSERT INTO Ticket (name_on_card, card_number, card_type, exp_date, cust_email,
airline_name, flight_num, sold_price, ID, purchase_date, purchase_time)
    VALUES (?,?,?,?,?,?,?,?,?,?,?)'
```

/rate: client can rate/comment their flights

```
`INSERT INTO Interact (email, flight_num, airline_name, dept_date, dept_time, comment,
rating)
    VALUES (?, ?, ?, ?, ?, ?, ?)`
```

/review: client can view their rate/comment for the flights

```
`SELECT * FROM Interact WHERE email ='${email}'`
```

/trackspending: client can view their flight spending

`SELECT * FROM Ticket WHERE ID IN (SELECT Ticket.ID FROM Ticket WHERE Ticket.ID IN (SELECT Purchase.ticket_id FROM Purchase WHERE email = ?)) AND purchase_date BETWEEN ? AND ?`

/staffhomepage: main menu for staffs

/staffviewflight: staff can view airline's flights.

/createflight: staff can create flight via form

`INSERT INTO Flight
  (flight_num, airline_name, dept_airport, arr_airport, dept_date, dept_time, arr_date, arr_time, airplane_id, flight_status, base_price)
  VALUES (?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?)`

/addairplane: staff can add airplane via form

`INSERT INTO Airplane
  (ID, airline_name, seat_num, manufacture_company, age_plane)
  VALUES (?, ?, ?, ?, ?)`

/addairport: staff can add airport via form

`INSERT INTO Airport
  (code, airport_name, city)
  VALUES (?, ?, ?)`,
  [
    req.body.code,
    req.body.airport_name,
    req.body.city,
  ]

/added: staff can view added flights

`SELECT * FROM Flight WHERE airline_name = '${airline_name}'`

/changestatus: staff can change status of the flight via form

`UPDATE Flight SET flight_status = ? WHERE flight_num = ? AND airline_name = ? AND dept_airport = ? AND arr_airport = ? AND dept_date = ? AND dept_time = ?`,

```
[
  req.body.flight_status,
  req.body.flight_num,
  req.body.airline_name,
  req.body.dept_airport,
  req.body.arr_airport,
  req.body.dept_date,
  req.body.dept_time,
]
```

/frequentcustomer: staff can view the most frequent customer info.

```
`SELECT COUNT(*) AS purchase_num, Customer.email
  FROM Customer, Purchase
  WHERE Customer.email = Purchase.email
  AND Purchase.ticket_id IN
  (
    SELECT Ticket.ID
    FROM Ticket
    WHERE Ticket.airline_name = '${airline_name}'
  )
  GROUP BY Customer.email`
```

```
`SELECT *
      FROM Customer
        WHERE email = ?`
```

/viewflightrating: staff can view a flight's rating and comment by specific customer.

```
`SELECT * FROM Interact WHERE airline_name = ? AND flight_num = ?`
```

/viewrevenue: staff can view airline's revenue

```
`SELECT *
  FROM Ticket
  WHERE Ticket.airline_name = '${airline_name}'`
```

/viewticketreport: staff can view airline's ticket reports.

```
`SELECT * FROM Ticket WHERE airline_name = '${airline_name}'`
```