

DBMS group project

Repos

Frontend : <https://bitbucket.org/sajeenthiran1/airline/src/master/>

BackEnd : <https://bitbucket.org/sajeenthiran1/airline-backend/src/master/>

Jira Task Managment : <https://sajeenthiran.atlassian.net/jira/software/projects/AIR/boards/1>

Add your sample ER diagrams

Sajeenthiran :

[https://lucid.app/lucidchart/2b390f7d-122c-4d55-bb5e-55b95170a21b/edit?viewport\\_loc=-244%2C-497%2C1408%2C801%2C0\\_0&invitationId=inv\\_52d1b0fc-ff31-4f09-96e4-30a42836f4ca](https://lucid.app/lucidchart/2b390f7d-122c-4d55-bb5e-55b95170a21b/edit?viewport_loc=-244%2C-497%2C1408%2C801%2C0_0&invitationId=inv_52d1b0fc-ff31-4f09-96e4-30a42836f4ca)

Website

Lets' follow this UI

[https://www.qatarairways.com/en-lk/homepage.html?CID=SXLK23456936M&account=Google-SEA\\_SASC-LK-EN-Brand&campaign=LK-Brand-Rest-EN\\_exact&adgroup=Misspellings&term=quatar+airways&&&gclid=CjwKCAjwrranBhAEEiwAzbhNtbrcy4Xr1aS7OE1C1J09EWpoIqSiiB06Owynnz-dC73iqkp0GU-fBoCrVIQAvD\\_BwE&gclsrc=aw.ds](https://www.qatarairways.com/en-lk/homepage.html?CID=SXLK23456936M&account=Google-SEA_SASC-LK-EN-Brand&campaign=LK-Brand-Rest-EN_exact&adgroup=Misspellings&term=quatar+airways&&&gclid=CjwKCAjwrranBhAEEiwAzbhNtbrcy4Xr1aS7OE1C1J09EWpoIqSiiB06Owynnz-dC73iqkp0GU-fBoCrVIQAvD_BwE&gclsrc=aw.ds)


Frontend technologies : react js, material UI

Backend technologies : NODE JS

Web pages and features with the user flow ( researched on the other airline platform UI/UX)

Note : these are complex UI elements , we will keep these UI components simple and minimum due to limited time ..these UI components are readily available for use in the material UI library.

1. On visit , enter destination and origin with departure and return date and time and search available flights (**Search flight Input Screen**)



# Flights

Round trip ▾ 1 ▾ Economy ▾

Colombo

↔


Where to?

Tue, 5 Sept < >


Sat, 9 Sept < >

Explore


Suggested trips from Colombo ⓘ



Dubai  
21–27 Sept  
→ 1 stop · 7 hrs 5 min  
LKR 118,117

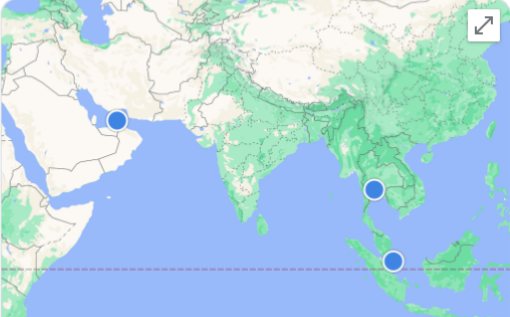


Singapore  
12–18 Oct  
→ 1 stop · 7 hrs 5 min  
LKR 81,392



Bangkok

Explore destinations



2. On search ,display the available flights ( both departure and return)(**Search flight Results Screen )**

Round trip

1

Economy

Colombo CMB

London

Tue, 5 Sept

Sat, 9 Sept

All filters

Stops

Airlines

Bags

Price

Times

Emissions

Connecting airports

Duration

Track prices 5-9 Sept

Any dates

Date grid



Price graph

Best departing flights

Ranked based on price and convenience

Prices include required taxes + fees for 1 adult. Optional charges and bag fees may apply. Passenger assistance info.




Sort by:

 <div>10:30 – 17:45<sup>+1</sup> Qatar Airways, Royal Jordanian</div>	35 hrs 45 min CMB-LHR	2 stops ▲ DOH, AMM	733 kg CO <sub>2</sub> +18% emissions ⓘ	LKR 384,995 round trip	▼
 <div>22:50 – 18:40<sup>+1</sup> China Eastern</div>	24 hrs 20 min CMB-LHR	2 stops KMG, PVG	1,066 kg CO <sub>2</sub> +71% emissions ⓘ	LKR 486,376 round trip	▼

Prices are currently typical

View price history

Other departing flights

 <div>23:40 – 09:25<sup>+2</sup> SriLankan, LOT</div>	38 hrs 15 min CMB-LHR	2 stops ▲ BOM, WAW	542 kg CO <sub>2</sub> -13% emissions ⓘ	LKR 442,305 round trip	▼
 <div>23:40 – 17:05<sup>+2</sup> SriLankan, Lufthansa</div>	45 hrs 55 min CMB-LGW	3 stops BOM, MUC, FRA	580 kg CO <sub>2</sub> -7% emissions ⓘ	LKR 467,087 round trip	▼
 <div>10:30 – 15:25<sup>+1</sup> Qatar Airways, Royal Jordanian</div>	33 hrs 25 min CMB-LHR	2 stops ▲ DOH, AMM	2,357 kg CO <sub>2</sub> +279% emissions ⓘ	LKR 475,995 round trip	▼


### 3. Fill in passenger details (passenger Details form )


## 2. BOOK FILL IN DETAILS


1 SELECT

2 BOOK

3 PAY

 TRAVELLERS


 \* = mandatory fields  
(in some cases, all information within a group becomes mandatory once you begin to enter information into that group)



- Names must be entered exactly as they appear on your passport for immigration and security purposes. Please refer below link for tips for entering the names correctly to avoid any inconveniences.[Please contact.](#)

[Tips for entering names](#)

- Valid passports & visa(s) with expiry dates as per the rules & regulations of the countries you will be travelling to are mandatory for you to be allowed entry to each destination on your itinerary. Please note that SriLankan Airlines will not be held responsible in the event that you are denied entry and/or deported by local authorities under any circumstance.

 ADULT

Title: \*

First/Middle Name as per the passport \*

Family/Last Name as per the passport \*

Frequent Flyer airline :

Frequent Flyer number :

### YOUR BOOKING

[Show booking details](#)

1 TRAVELLER

1 Adult

Sat 16 Sep 2023

13:05 Colombo(CMB)  
20:00 London(LHR)  
Total duration 11:25, Direct flight  
Fare type ECO FLEX

Sat 30 Sep 2023

08:25 London(LHR)  
05:45 +1 day Colombo(CMB)  
Total duration 16:50, 1 stop  
Fare type ECO SEMIFLEX  
Your selection includes several cabins:  
Economy, Economy Restricted.

TOTAL

LKR 668,923.00

Base fare

LKR 442,700.00

Taxes and carrier imposed fees/surcharges

LKR 226,223.00

Round trip price for all travellers (including taxes and carrier imposed fees/surcharges)

CONTINUE

Booking details

Purchase conditions

Baggage policy

Frequent Flyer airline :  
SriLankan Airlines

Frequent Flyer number :  
Enter your Number

\* indicates a required field

### CONTACT INFORMATION

e-mail: \*

Please enter your E-Mail

Home Phone:

Enter your Home Phone

Country Code

Business Phone :

Enter your Business Phone

Country Code

Mobile Phone : \*

Enter your Mobile Phone Number

Country Code

☒ I want to receive a notification SMS

#### Emergency contact information

Name of the person to be contacted in an emergency

Enter an Emergency Name

Phone Number

Enter an Emergency Phone

Country Code

Please include your country code (e.g. +44 111 2222 for UK)

Remember my details

☐ Please remember my traveller information for future visits.

### YOUR BOOKING

[Show booking details](#)

#### 1 TRAVELLER

1 Adult

#### Sat 16 Sep 2023

13:05 Colombo(CMB)  
20:00 London(LHR)  
Total duration 11:25, Direct flight  
Fare type ECO FLEX

#### Sat 30 Sep 2023

08:25 London(LHR)  
05:45 <sup>+1 day</sup> Colombo(CMB)  
Total duration 16:50, 1 stop  
Fare type ECO SEMIFLEX  
Your selection includes several cabins:  
Economy, Economy Restricted.

<b>TOTAL</b>	<b>LKR 668,923.00</b>
Base fare	LKR 442,700.00
Taxes and carrier imposed fees/surcharges	LKR 226,223.00
Round trip price for all travellers (including taxes and carrier imposed fees/surcharges)	

CONTINUE

Booking details

Purchase conditions

Baggage policy

Important information

Fare basis information

## 2. BOOK FILL IN DETAILS

1 SELECT

2 BOOK

3 PAY

### Specify your travellers

\* = mandatory fields  
(in some cases, all information within a group becomes mandatory once you begin to enter information into that group)

Parameswaran Sajeenthiran  
Adult

#### Identification document

Identification information as it appears on the government-issued document (usually passport).

Gender: \*

Male

Date of birth: \*

12

June

2001

Nationality country code: \*

Sri Lanka

Document type: \*

Passenger passport

Document number: \*

333

Issuing country code: \*

Sri Lanka

Expiration date: \*

23

December

2024

### YOUR BOOKING

[Show booking details](#)

#### 1 TRAVELLER

1 Adult

#### Sat 16 Sep 2023

13:05 Colombo(CMB)  
20:00 London(LHR)  
Total duration 11:25, Direct flight  
Fare type ECO FLEX

#### Sat 30 Sep 2023

08:25 London(LHR)  
05:45 <sup>+1 day</sup> Colombo(CMB)  
Total duration 16:50, 1 stop  
Fare type ECO SEMIFLEX  
Your selection includes several cabins:  
Economy, Economy Restricted.

<b>TOTAL</b>	<b>LKR 668,923.00</b>
Base fare	LKR 442,700.00
Taxes and carrier imposed fees/surcharges	LKR 226,223.00
Round trip price for all travellers (including taxes and carrier imposed fees/surcharges)	

Note - we will make only one form for this

## 4. Seat number booking

SELECT YOUR PREFERRED SEAT

Please [Click here](#) for more information on Advance seat reservation.  
Please [Click here](#) for more information on Extra Legroom Seat pre-reservation.  
[Show keyboard navigation instructions](#)

Colombo - London

London - Doha

Doha - Colombo

List of travellers

Mr Parameswaran Sajeenthiran

No seat selected

Legend

☒ Selected Seat

☐ Available (Not Chargeable)

☐ Available (Chargeable)

☐ Extra leg room

☐ Not Available

☐ Exit Row

☐ Galley

☐ Toilet

☐ Wheelchair

☐ Facility

☐ Entertainment Not Available

UL503 Airbus A330-300

	A	C		D	E	F	G		H	K	
	MV			W	G				MV		
				W	G				LA		
				MV					CL		
20	X	X		X	X	X	X		X	X	20
21	X	X		X	X	X	X		X	X	21
22	X	X		X	X	X	X		X	X	22
23	X	X		X	X	X	X		X	X	23
24	X	X		X	X	X	X		X	X	24
25	X	X		X	X	X	X		X	X	25
26	X	X		X	X	X	X		X	X	26
27	X	X		X	X	X	X		X	X	27
28	X	X		X	X	X	X		X	X	28
29	X	X		X	X	X	X		X	X	29
30	X	X		X	X	X	X		X	X	30
31	X	X		X	X	X	X		X	X	31
32	X	X		X	X	X	X		X	X	32
33	X	X		X	X	X	X		X	X	33
34	X	X		X	X	X	X		X	X	34
35	X	X		X	X	X	X		X	X	35
36	X	X		X	X	X	X		X	X	36
37	X	X		X	X	X	X		X	X	37

ADD

FREE

Purchase cost

## 5. Review

Emirates

Make a booking

1 Flights

2 Passengers

3 Options

4 Payment

5 Confirm

Review your selection

Flights

All flight details

For 2 passengers (including airfare, taxes, fees and carrier-imposed charges)

Total: LKR 3,780,322

Fri 15 Sep 23

20:35

Colombo  
Bandaranaike  
Airport (CMB)

45h 20m

2 connections

Sun 17 Sep 23

13:25

London Stansted  
(STN)

Class / Fare:

Business / Flex Plus

☒ Checked baggage: 40kg

☒ Change fee: No Charge

☒ Refund fee: No Charge

[View detailed fare conditions](#)

Hide fare rules

Fri 20 Oct 23

14:55

London Stansted  
(STN)

13h 10m

1 connection

Sat 21 Oct 23

08:35

Colombo  
Bandaranaike  
Airport (CMB)

Class / Fare:

Business / Flex Plus

☒ Checked baggage: 40kg

☒ Change fee: See detailed rules

☒ Refund fee: See detailed rules

[View detailed fare conditions](#)

Hide fare rules

STN - DXB

☒ Checked baggage: 40kg

☒ Change fee: See detailed rules

☒ Refund fee: See detailed rules

[View detailed fare conditions](#)

DXB - CMB

☒ Checked baggage: 40kg

☒ Change fee: See detailed rules

☒ Refund fee: See detailed rules

[View detailed fare conditions](#)

## 6.Payment( we will use strip)

## Payment details

Choose payment method

- Credit/Debit card

Card Details

Card number

Card number is mandatory

Full name (as it appears on card)

Name is mandatory

Expiry date  
Month - Year

Expiry Date is Mandatory

Total to be paid:**LKR 3,780,322**

## Terms & conditions

## Work allocation

1. Search flight Input Screenen : *#if you are interested in developing this page fill your name*
2. Search flight Results Screen : *# if you are interested in developing this page fill your name*
3. passenger Details form : *# if you are interested in developing this page fill your name*
4. Seat number booking : *# if you are interested in developing this page fill your name*
5. Review : *# if you are interested in developing this page fill your name*
6. Payment : *# if you are interested in developing this page fill your name*

**Admin section ( #if anyone willing to do this please fill your name here)**

Display the following information

- Given a flight no, all passengers travelling in it (next immediate flight) below age 18, above age 18
- Given a date range, number of passengers travelling to a given destination
- Given a date range, number of bookings by each passenger type
- Given origin and destination, all past flights, states, passenger counts data
- Total revenue generated by each Aircraft type

**Login and signup ( # if anyone willing to do this please fill your name here)**