

## **DELIVERABLE 4 – SYSTEMS DESIGN**

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CSE230-System Analysis and Design

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# 1. Introduction

This document presents a user interface design for the Airline Company Booking System. The goal is to design a user-centered, and secure UI for the Airline Company Booking System that supports all critical functions: flight search, booking, payment, account management

## 2. UI Example: Emirates

✈️ Search flights

📄 Manage booking / Check in

📊 What's on your flight

🕒 Flight status

Advanced search: multi-city, promo codes, partner airlines >

Departure airport  
📍 Larnaca (LCA) ×

Arrival airport  
São Paulo (GRU) ×

Departing  
17 May 25 · Returning  
03 Jun 25

Passengers  
1 Passenger ▾ ⓘ

Class  
Economy Class ▾

Search flights

Justification:

- Calendar picker for travel dates

✈️ Search flights

📄 Manage booking / Check in

📊 What's on your flight

🕒 Flight status

Advanced search: multi-city, promo codes, partner airlines >

Departure airport  
📍 Larnaca (LCA) ×

Arrival airport  
São Paulo (GRU) ×

Departing  
17 May 25 · Returning  
03 Jun 25

✈️ Please choose your departure date

☐ (+/- 3 days) ☐ One way

◀ May 2025

June 2025 ▶

MON	TUE	WED	THU	FRI	SAT	SUN
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

MON	TUE	WED	THU	FRI	SAT	SUN
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

- Dropdown menu for passengers and class

Passengers
1 Passenger
^

Passengers

—

1 Adult

Ages 12+

+

—

0 Child

Ages 2-11

+

—

0 Infant

Ages under 2, on lap

+

Please note: You can book for a maximum of nine passengers.

Class
Economy Class
^

All Classes

Economy Class

Premium Economy

Business Class

First Class

## Search Results page

Emirates

Larnaca (LCA) → São Paulo (GRU)
Return • 1 passenger
Change search
View summary

### Choose your outbound flight

Lowest total price for 1 passenger EUR 2,696.44  
Inclusive of airfare, taxes, fees and carrier imposed charges  
Change currency

Larnaca to São Paulo  
[View baggage allowances and fees](#) [On time performance](#)

Saturday, 17 May 2025 (3 options) < Previous day Next day >

Show prices for: Economy Premium Economy Business First Sort: Lowest price

Sat 17 May  
20:10  
LCA  
Larnaca

27 hrs 30 mins  
Connects in Dubai

Sun 18 May  
17:40  
GRU  
São Paulo

Economy Class  
from EUR 1,655.96  
Lowest price

B777 EK110
A380 EK261

Other flight options

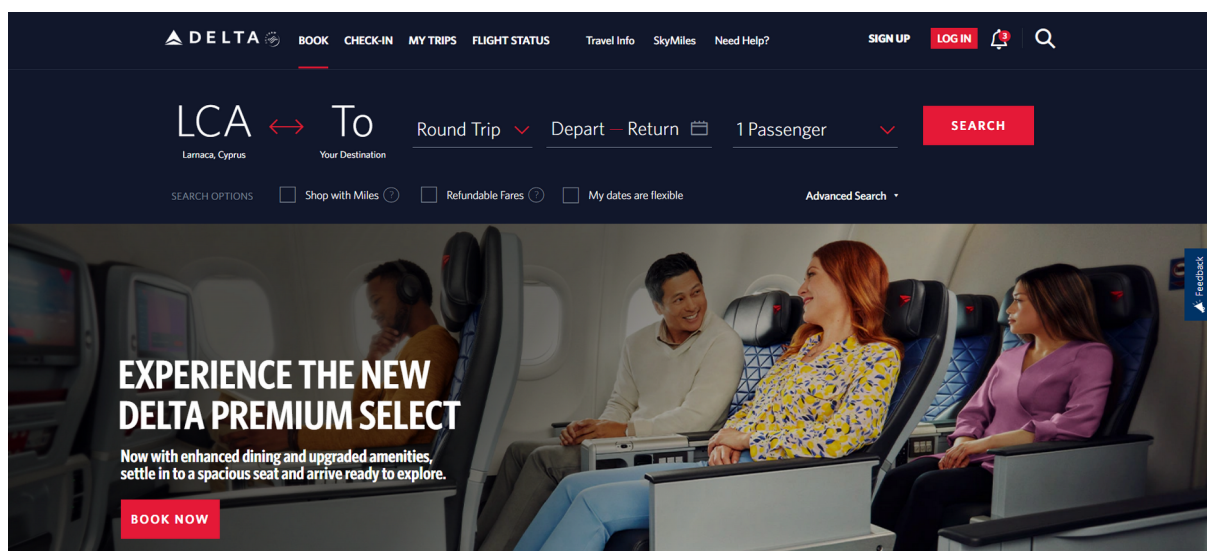
- Filters for miles, duration, price, arrival and departure time.
- Price details clearly displayed
- Consistent navigation

## Payment page

- Embedded secured form for payment details
- User validation

## 3. UI Examples: Delta Air Lines

### Landing page



- Very simple and well laid out
- Automatically finds your location to help you navigate to your next destination
- The navigation bar is simple and easy to read, although icons could improve it

- The booking system is laid Infront of you as soon as you get to their site and you can start registering your trips instantly
- A user feedback tab is available (right-center of the window)

Feedback window

## Tell us how we're doing!

\* What is your overall satisfaction with Delta.com?

★ ★ ★ ★ ★

\* What is your feedback regarding?

Select one ▼

Please provide any feedback you have about your experience today.

Submit >

Drop down choices (for easy data filling in forms and search options)

Round Trip ▼ Depart — Return 1 Passenger ▼

Round Trip  
One Way  
Multi-City

Departure and return dates cannot be empty

☐ My dates are flexible

Advanced Search ▼

Along with a date picker (for ease of use)

Round Trip ▼ Depart — Return 1 Passenger ▼

Round Trip  
One Way  
Multi-City

Departure and return dates cannot be empty

☐ My dates are flexible

Advanced Search ▼

Warnings to let users know that an action is needed to continue

To continue, please correct the 2 items indicated

LCA ↔ To

Larnaca, Cyprus Your Destination

Please enter a Destination City

Round Trip ▼ Depart — Return 1 Passenger ▼

Departure and return dates cannot be empty

Easy to use sort feature (by price and routing)

One Way

ATL · MCO

Show Price In

\$USD

Miles

Miles + Cash

Sort & Filter

Reset all

×

Sort by

Best Match

Stops

☒ Nonstop

Total Price

\$100

\$700

0 Filters Changed

14 Flight Results

Informative cards to allow clients to easily recognize features, plans, and preferences

Sat, May 31, 2025		Basic	Main	Comfort+®	First
Explore Our Products Fares are per passenger, including taxes and fees. Additional baggage fees may apply. Delta flights may be listed first. Services and amenities may vary or change.					
<div> <div>NONSTOP</div> <div>FREE WI-FI FOR SKYMILES MEMBERS</div> </div> <div> <div>DL2204</div> <div>1h 26m</div> </div> <div> <div>7:10am</div> <div>✈</div> <div>8:36am</div> </div> <div> <div>ATL</div> <div>Nonstop</div> <div>MCO</div> </div> <div> <div>Details</div> <div>Seats</div> <div> </div> </div>		<div>Basic (E)</div> <div>\$113</div> <div>One-Way</div>	<div>Main (T)</div> <div>\$139</div> <div>One-Way</div>	<div>Comfort+® (S)</div> <div>\$184</div> <div>One-Way</div>	<div>First (Z)</div> <div>\$289</div> <div>One-Way</div>

A help button allows to open a chat for help throughout the booking experience







Message us



Looks like we had an issue finding a flight that matches your search criteria. We are always updating our flight schedules and destinations to better accommodate your travel plans. Would you like to try some other options that may help?

Note: This chat is recorded

Yes

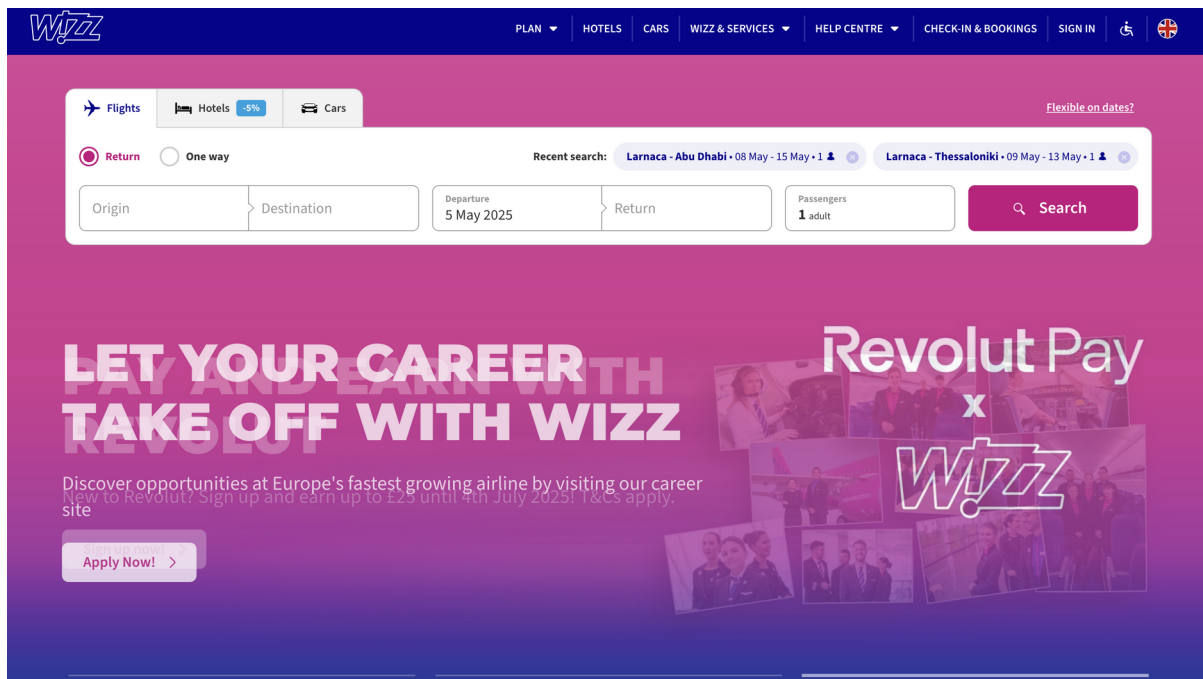
No



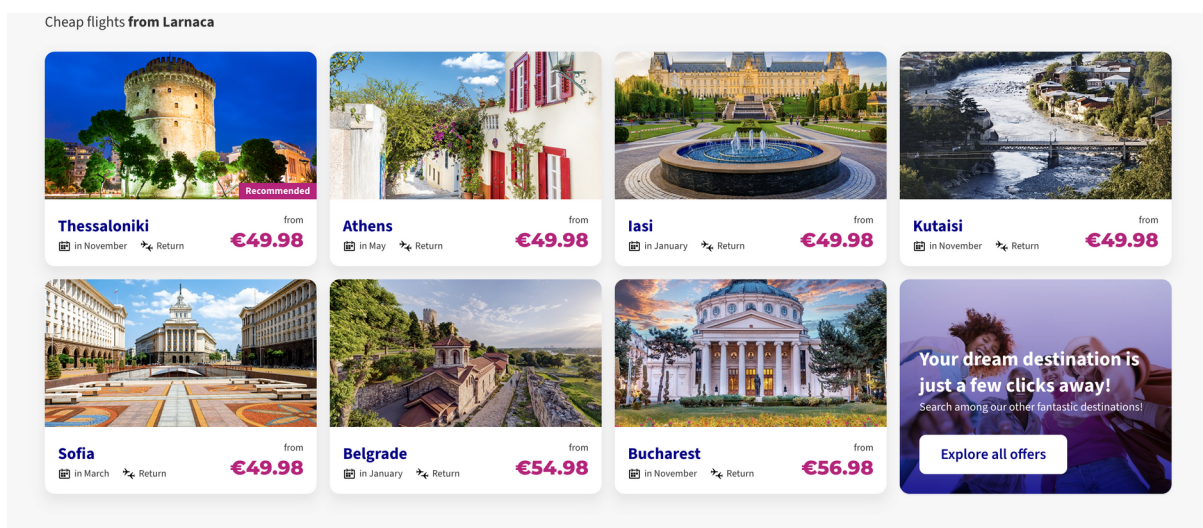
Type your message



## 4. UI Example: Wizz Air



Directly from the home page you can see the offers the airline provides. Also you can see the search bar where you can place where you want to search flights exact dates and locations.



The site detects your location and shows you some locations you can travel to with the price shown and the month as well.

Fri 13, Jun

Sat 14, Jun

Sun 15, Jun

Mon 16, Jun

Tue 17, Jun

Wed 18, Jun

Thu 19, Jun

Fri 20, Jun

Sat 21, Jun

Sun 22, Jun

Mon 23, Jun

Tue 24, Jun

Wed 25, Jun

Thu 26, Jun

Fri 27, Jun

JUNE

JUNE

Airbus A321ceo (operated by Wizz Air Hungary)

Fri, 20 Jun 2025

15:00 UTC+3

1h 55m

16:55 UTC+3

Larnaca

Athens

REGULAR PRICE

€79.99

SELECT

WIZZ DISCOUNT CLUB PRICE

€69.99

SELECT

All prices are per passenger and include all applicable taxes. WIZZ does not charge Air Passenger Duty ("APD") taxes for any passenger departing from the United Kingdom. Schedule times shown are the local times of the departure and arrival city.

Athens ATH → Larnaca LCA

SHOW PRICE CHART

Sun 22, Jun

Mon 23, Jun

Tue 24, Jun

Wed 25, Jun

Thu 26, Jun

Fri 27, Jun

Sat 28, Jun

Sun 29, Jun

Mon 30, Jun

Tue 01, Jul

Wed 02, Jul

Thu 03, Jul

Fri 04, Jul

Sat 05, Jul

Sun 06, Jul

JUNE

JUNE

JULY

JULY

Airbus A321ceo (operated by Wizz Air Hungary)

Sun, 29 Jun 2025

18:35 UTC+3

1h 45m

20:20 UTC+3

Athens

Larnaca

REGULAR PRICE

€124.99

SELECT

WIZZ DISCOUNT CLUB PRICE

€114.99

SELECT

All prices are per passenger and include all applicable taxes. WIZZ does not charge Air Passenger Duty ("APD") taxes for any passenger departing from the United Kingdom. Schedule times shown are the local times of the departure and arrival city.

Did you know? By joining the Standard Wizz Discount Club, you can save up to 60 EUR on a trip for two.

With this menu you can select and see the prices and times of the booking you selected with also include the prices of subscribed members.

Airbus A321ceo (operated by Wizz Air Hungary)

Fri, 20 Jun 2025

15:00 UTC+3

1h 55m

16:55 UTC+3

Larnaca

Athens

Free carry-on bag

In the cabin placed under the seat

Free online check-in between 24 and 3 hours before departure

Check-in at the airport costs 40 EUR

Basic price:

Continue for €79.99

per passenger on this flight

QUICK TRAVEL

WIZZ Smart

Free carry-on bag (40cm × 30cm × 20cm)

Free normal seat selection

Excluding row 1 to 4 and extra legroom seats

10 kg trolley bag on board

55cm x 40cm x 23cm

Free online check-in between 30 days and 3 hours before flight departure

Check-in at the airport costs 40 EUR

Priority boarding

Be among the first to board the aircraft

+ €30.90

per passenger on this flight

PACK & SAVE

WIZZ Go

Free carry-on bag (40cm × 30cm × 20cm)

Free normal seat selection

Excluding row 1 to 4 and extra legroom seats

20 kg checked-in bag

Free Airport & online check-in between 30 days and 3 hours before flight departure

+ €48.30

per passenger on this flight

ALL IN & FULL FLEX

WIZZ Plus

Free carry-on bag (40cm × 30cm × 20cm)

Free premium or normal seat selection

Including front row and extra legroom seat

32 kg checked-in bag

Free Airport & online check-in between 30 days and 3 hours before flight departure

10kg trolley bag on board

55cm x 40cm x 23cm

Online flight change without flight change fees

Fare difference fee may be applicable

Refund to WIZZ account

Within 72 hours

+ €86.67

per passenger on this flight

After selecting the flight hour under it instantly shows you detailed if you want a bag to choose and any priorities.