

Proposal for Flight Booking System

By Joe Harper

I am proposing to create a flight booking system for flights to Stockholm Arlanda Airport, Sweden. This proposal will show what the system will do. It will allow the user to book a flight, select a date and get a cost for this flight.

Planning and System Requirements:

System Requirements:

- Processor: 1 GHz
- RAM: 1 GB
- Hard disk space: 16 GB
- Graphics card: X9
- Display 800x600

Mobile Device:

- 1.3GHz dual-core processor
- 1GB of RAM
- Android 5 to Android 11 – and iOS 8 to iOS 13
- 1,440mAh battery


Research:

I conducted research to give me some ideas and inspiration and work out what I liked and didn't like.

| Outbound: London-Gatwick - Stockholm-Arlanda | | | Sunday 26. Sep 2021 | | |
|---|-------------------------------|----------------------------|------------------------------|------------------------------|------------------------------|
| Compare fare types | | | All fares per person in GBP | | |
| Departure | Arrival | Details | LowFare | LowFare+ | Flex |
| 20:50 London-Gatwick | 00:25 +1 Stockholm-Arlanda | Direct Duration: 2h 35m | <input type="radio"/> 109.80 | <input type="radio"/> 134.80 | <input type="radio"/> 162.10 |
| ① WiFi included (*) ② 18% less CO ₂ emissions than industry average Operated by Norwegian Air Sweden AOC | | | | | |

This was one template that I found on the Norwegian website to book flights from London Gatwick Airport to Stockholm Arlanda Airport. In this example, things look easy to book. It tells me what each fare is and tells me about the flight.

07:10 LHR — 10:40 ARN

British Airways 


Non-stop 2h 30m


[FLIGHT DETAILS](#)

Economy£201

Business3 left at £820

This was another template that I found on the British Airways flight to book flights from London Heathrow Airport to Stockholm Arlanda Airport. In this example, things don't look as simple because it doesn't tell me anything. All it tells me is the details of the fare – unless I click on the 'Flight Details' button then I wouldn't know anything about the flight – such as the aircraft type or anything.





£156²⁷
per person

08:45 London → 20:05 Stockholm 10h 20m 1 stop (Berlin)


20:40 Stockholm → 08:05 London 12h 25m 1 stop (Berlin)

[Details](#)

[Select](#)

DEPART – 29 SEPTEMBER 2021
Journey duration: 10h 20m


08:45 London Gatwick (LGW)

2h 00m easyJet, EZY8209 

11:45 Berlin Brandenburg Airport (BER)

6h 30m Connection


18:15 Berlin Brandenburg Airport (BER)

1h 50m easyJet, EZY5887 

20:05 Stockholm Arlanda (ARN)

RETURN – 6 OCTOBER 2021
Journey duration: 12h 25m


20:40 Stockholm Arlanda (ARN)

1h 45m easyJet, EZY5888 

22:25 Berlin Brandenburg Airport (BER)

8h 35m Connection

07:00⁺¹ Berlin Brandenburg Airport (BER)

2h 05m easyJet, EZY8208 

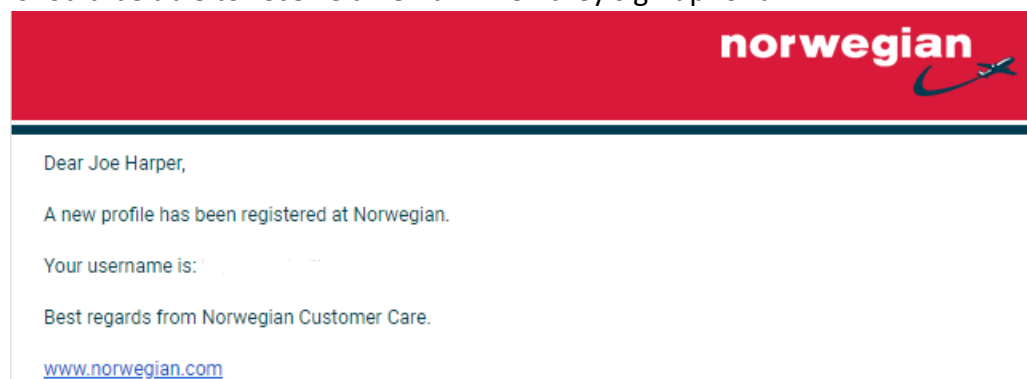
08:05 London Gatwick (LGW)

Here is a much nicer template for what I have seen so far on the easyJet website – I do have to click on the 'details' button but it gives me all the details for my flight and how much it will cost and the duration and how long I have to connect in Berlin Brandenburg Airport. It's very useful.

Here is a template for another flight that I saw on the SAS website – it’s probably the clearest so far as it has all the details I need on there and tells me everything. It’s very useful. The only problem with this is that it’s very messy and is a bit all over the place. It has a good use of colour too which makes it easy to read.

Description of my proposed booking system:

From the early days of flight, we have come a long way. It is now easier than ever to get from Point A to Point B. We can now hop on a plane and go anywhere we want (provided we don’t have a global pandemic in the way). I plan to make an easy to use, simple, and user-friendly booking system which will have some requirements. One of these requirements is that the user should be able to receive an email when they sign up for an account. They should have a confirmation email which shows that they have signed up for their account – which should look like this image to the right.



Another requirement is that it the user can log in to the system. Provided that the username and password match what has been saved in the database. For example, if the username of ‘mark.bamford’ and a password of ‘cricket’ is not in the database then the user will not be allowed access to the portal where you choose the flights, dates and times etc.

The booking system should also be secure. Any information which is inputted by the user should be stored securely. I do not want a data breach, which will put my reputation at risk. If customer data gets lost, then I am committing a breach of the Data Protection Act.

As for accessibility, the booking system should copyright the use of photos and videos. Any photograph that gets put onto the website should be copyrighted so any user doesn’t just take the picture and go and use it freely.

I also must make sure that I follow the equalities act. I must make sure that the app is available for all users – and not for just users who have no issues at all.

Functional requirements:

- the user should be able to receive an email when they sign up for an account
- the user should be able to book flights to Stockholm
- the user can choose a date
- the user can log in to the system
- the user can ask for help on a forum
- the user should be able to access see how much it is going to cost
- the user should be able to an external interface
- the user should be able to see all their bookings
- the user should be able to update their flights
- the user must have their data validated and kept secure

Non-functional requirements:

- good performance
- good response time
- system should be readable
- secure – make sure can log in and store any important data used by the user or client
- easy to make it bigger
- usability – make sure it is easy to use

Accessibility and legal issues:

- keyboard accessibility
- colour contrast
- copyright of the use of images and videos
- colour-blindness and the partially sighted user
- error messages to also have an error icon
- headings
- alternative text
- forms
- downloading materials
- equalities act