Flight booking system

**Functional requirements**

1. **Create an account**
   1. Unrecognised user will be asked to either login to their account or create an account
   2. To create an account the unrecognised user will have to enter their details
   3. Details are
      1. Title
      2. First name (As appears on passport)
      3. Surname (As appears on passport)
      4. Gender
      5. Date of birth
      6. Email address
      7. Mobile number
      8. Landline number (Optional)
      9. Address line 1
      10. Address line 2 (Optional)
      11. Town/City
      12. County
      13. Country
      14. Postcode (Optional)
   4. The user can also enter their Frequent flyer membership if they have one
   5. All the above criteria must be validated before the user can create their account
2. **Login to account**
   1. Unrecognised user will be asked to either login to their account or create an account
   2. To login to account an unrecognised user will be asked to enter their email address and password
3. **Search flights**
   1. User must choose either one-way or return flights
   2. User must choose a departure airport
   3. User must choose a departure date
   4. User must choose a return airport (if applicable)
   5. User must choose a return date (if applicable)
   6. User must choose the number of passengers for booking
   7. System should only allow user to continue once all previous criteria is entered
   8. System should generate and display all available flights once all the search criteria is met and the user selects the search button
4. **Flight details display**
   1. The system must display all available flight times and fare prices for the dates selected by the user
   2. The user should be given the option to go back to the flight search function in case they have entered the wrong details previously
   3. The system must give the user fare type options (Economy or Business class) and display what benefits each option contains and adjust the price accordingly
   4. The system must give the user an option to choose the previous or next day to the date chosen
   5. The system must display the full price of the booking to the user
   6. When the user has made all their choices they should be presented an option to continue to payment
5. **Payment details**
   1. When the user is satisfied with their booking they will be prompted to pay for the booking
   2. To complete the booking purchase the user must enter their card details
   3. Card details are
      1. Card type
      2. Cardholders name
      3. Card number
      4. Expiry date
      5. Security number
   4. The user will be asked if they want to use any of their acquired frequent flyer points against their booking
   5. Before the user can agree to process payment, they must first agree to the airlines terms and conditions
   6. All the above criteria must be validated
   7. The user can then agree to process payment
6. **Payment confirmed**
   1. When the user agrees to process payment
   2. ??? Not sure what happens here???
   3. When the transaction is complete the user will be given a booking number and a booking receipt
   4. The booking number and the booking receipt will then be sent to the users email address