CISC 327 - Requirements

Steven Guan

- **USER REGISTRATION** - Users are able to register for a new account by providing necessary credentials such as name, email, a password and phone number
  - **Test case 1** - User registers with valid credentials
    - **Action** - User is registering with a name filled in, an email that **HASN'T** been used for an account, a password and existing number - after hitting the "Register" button.
    - **Result** - User is redirected to a page requesting to verify identity through confirmation email; account is successfully registered.
  - **Test case 2** - User registers with invalid credentials
    - **Action** - User fails to fill in some or all boxes for registration (missing fields), or has provided invalid email, or phone number - after hitting the "Register" button.
    - **Result** - User is given an error message indicating the field to fill, or whether the fields cannot accept the credentials.
  - **Test case 3** - Duplicate email registration
    - **Action** - User is attempting to register an account with an email that already has an account associated with it - after hitting the "Register" button.
    - **Result** - User receives an error message prompting to use another email, as the one they have filled already has an account.
  - **Test case 4** - Password confirmation/Weak password
    - **Action** - A password fewer than 8 characters is chosen, or password and password confirmation does not match.
    - **Result** - User is prompted to select a password with 8 or more characters. Passwords not matching with the confirmation password will prompt the user to try again.

- **FLIGHT SEARCHING** - Users should be able to search for available flights according to departure and destination cities, date of flight, cabin class, flight duration, etc. Users are also able to make round trips or one-way flights.
  - **Test case 1** - User searches for a flight with valid inputs

- **Action** - User selects a date, destination, departing location and cabin class in the flight specifier and hits the "Search" button.
- **Result** - Results in the form of of a list of available flights are shown to the user - with matching details
  - **Test case 2** - User searches for a flight with invalid inputs
    - **Action** - User fills incorrect details: non-existent departure/destination airport, missing fields, etc.
    - **Result** - An error message is shown, indicating that a real destination/departure location must be selected from a dropdown list when interacting with the box, and that missing fields must be entered.
  - **Test case 3** - User searches for a flight with a date that has already passed
    - **Action** - User enters a past date for the departure date and hits the "Search" button.
    - **Result** - An error message is shown, indicating that departure date in the past cannot be selected.
  - **Test case 4** - Flights that are not available.
    - **Action** - User enters the same airport for destination airport and departure airport - or flights that cannot be made in a single flight (needing a connecting flight).
    - **Result** - Available connecting flights are shown (can be filtered by cost, time and amount of flights). If none are available (matching depart/destination airports), user is shown that no matches fit criteria.

Hassan Hamid
- **FLIGHT SELECTION** - Users shall be able to select a flight from the search results and view details such as price, flight duration, and available seat classes.
  - **Test case 1 -** Flight selection with available flights
    - **Action -** Select a flight from the search results
    - **Result -** Selected flight's details (e.g. price, duration, seats) are displayed, and the user is prompted to proceed to seat selection
  - **Test case 2 -** Flight selection when no flights are available
    - **Action -** Attempt to select a flight when no flights match the provided search criteria

- - **Result -** No flight selection is possible, and the user sees a message indicating that no flights match the search criteria
  - ○ **Test case 3 -** Viewing flight details before selection
    - ■ **Action -** Search for flights and click on the " Flight Details" button of a flight to view additional flight information.
    - ■ **Result -** The flights details page is displayed, showing all the information about the selected flight.
- **SEAT SELECTION** - Users shall be able to select their preferred seats on the flight through an interactive seat map.
  - ○ **Test case 1 -** Seat selection with available seats
    - ■ **Action -** After selecting the flight, the user opens the seat map and selects available seats.
    - ■ **Result -** The selected seats are highlighted with the passenger's initials and the user can proceed to the next step.
  - ○ **Test case 2 -** The user attempts to select reserved seats.
    - ■ **Action -** The user tries to select a seat that has already been reserved
    - ■ **Result -** The system does not allow the user to select the reserved seat and displays a message indicating that the seat is unavailable
  - ○ **Test case 3 -** Deselecting seats
    - ■ **Action -** Clicking on the "deselect seat" button will deselect it.
    - ■ **Result -** The seat is deselected, and the seat becomes available again for selection by other users.

Sungmoon Choi

- **USER PAYMENT** - User shall be able to double-check the price of their selection and given different payment options to pay for the ticket
  - ○ **Test case 1** - User selects a proper payment method and inputs valid payment information
    - ■ **Action** - User inputs a valid payment information
    - ■ **Result -** User is prompted of success and taken to the confirmation page
  - ○ **Test case 2** - User selects a proper payment method, but inputs invalid payment information

- - ■ **Action** - User inputs an invalid payment information
    - ■ **Result** - User is prompted that payment information is invalid and asked to retry
  - ○ **Test case 3** - User inputs valid payment information, but insufficient fund
    - ■ **Action** - System check that the payment method provided doesn't have sufficient balance
    - ■ **Result** - User is prompted that payment provided doesn't have sufficient balance and asked to try a different method
  - ○ **Test case 4** - Timeout or network issue
    - ■ **Action** - User surpasses the session time provided during check-out or is disconnected during payment
    - ■ **Result** - User is prompted of either of the error occurring and asked to retry
- ● **CONFIRMATION** - User shall be able to double-check their ticket information and request any changes if necessary
  - ○ **Test case 1** - User accepts the final confirmation
    - ■ **Action** - System passes the ticket purchase request
    - ■ **Result** - Payment is processed and user is taken to the home page
  - ○ **Test case 2** - User wishes to save the confirmation page
    - ■ **Action** - User is asked whether to save the pdf file of the page or email the confirmation letter
    - ■ **Result** - User is prompted the confirmation has been saved/sent and is taken to the home page
  - ○ **Test case 3** - User wishes to make any changes
    - ■ **Action** - System asks which selection they would like to change
    - ■ **Result** - Payment isn't processed and user is taken back to the corresponding page to make any changes

Web link to frontend UI diagrams made using Figma:

https://www.figma.com/design/wQfIKmLE6haXUCWoTM78Ha/CISC-327-Assignment-1?node-id=0-1&t=M00xTTDl4RB6mzJ6-1

Link to private github repository:

https://github.com/sungpoon04/Cisc327-GROUP51