Course Project Assignment #1 - Front End Requirements

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UI url:

https://www.figma.com/proto/k0TUjh1LLW8VAj1PW0bS5R/Figma-basics?node-id= 1669-162202&t=bEklZG4xFNkvtW2Z-1

Project #2: Flight Ticket Booking System.

Functional Requirements

1. Flight Search

Users will be able to search for available flights by entering from, to, and dates of travel.

2. Seat Selection

Users will be able to select their preferred seat from a seat map.

3. Flight Details Display

The system will display the flight details, including departure time, arrival time, duration, and price.

4. Payment Processing

Users will be able to enter payment details and make a payment for a selected flight.

5. Booking Confirmation

After successful payment, users will be provided with a booking confirmation.

6. Account Creation

Users will be able to create a new account.

7. Log in

Users will be able to log into an existing account.

Test Cases

Requirement 1: Flight Search

- Test Case Name: Search flights form validation
- **Objective**: Verify that users can enter the origin, destination, and travel date, and then validate these inputs before search.
- Action: Leave one or more input fields blank, then click the search button.
- Assert: The system should display an error message indicating that all fields must be filled in.
- Test Case Name: Successful flight search
- Objective: Verify that the search button functions properly after valid inputs.
- Action: Enter all fields valid then click the search button.
- **Assert:** The system should transition to the flight results page.

Requirement 2: Seat Selection

- **Test Case Name**: Seat map display interaction
- **Objective**: Verify that the seat map is displayed correctly and users can select a seat.
- Action: On the seat selection page, click on an available seat to select it.
- Assert: The selected seat should visually change, and a confirmation indicator should appear on the page.
- **Test Case Name**: Prevent selection of unavailable seat
- Objective: Ensure users cannot select seats marked as unavailable.
- Action: Try to click on a seat marked as unavailable.
- Assert: The seat should not change its state, and no confirmation should appear.

Requirement 3: Flight Details Display

- Test Case Name: Flight details display
- **Objective**: Searching for a flight displays details such as departure time, arrival time, duration, price, luggage, passenger, and the seat selector.
- Action: Perform a flight search and view the flight results.
- **Assert:** The system displays the details of the selected flight, are able to enter in passenger details and move to the seat map page.
- **Test Case Name**: Passenger details verification
- Objective: Make sure the passengers details are valid and work with the ticket provided
- Action: Enter invalid passenger details
- Assert: The system displays an error message indicating the format is incorrect and does not move to the next page
- Test Case Name: Successful passenger details
- Objective: Make sure the passengers details with valid inputs pass
- Action: Enter valid passenger details
- Assert: The system displays a confirmation message and allows navigation to the next page

Requirement 4: Input Validation for Payment Form

- **Test Case Name**: Payment information validation
- **Objective**: Verify that the payment inputs are valid, examples being credit card number, expiration date, and CVV.
- Action: Enter invalid credit card information and click pay.
- Assert: The system displays an error message indicating the format is incorrect.
- Test Case Name: Successful payment
- Objective: Make sure that the payment with valid inputs will pass.
- Action: Enter valid credit card information and click pay.
- Assert: The system displays a confirmation message stating that the payment was successful

Requirement 5: Booking Confirmation Page Display

- Test Case Name: Display booking confirmation
- **Objective**: Verify that a confirmation page is displayed with the correct booking reference after a payment is completed.
- Action: Complete the booking process and proceed to the confirmation page.
- Assert: The system should display a booking reference number, flight details, and a "Thank you for your booking" message.

Requirement 6: User Registration UI

- Test Case Name: User registration form validation
- **Objective**: Registration checks for valid inputs.
- Action: Leave any of the fields blank or enter an invalid format.
- Assert: The system should display an error message.
- **Test Case Name**: Password strength validation
- Objective: Ensure that the system checks for password strength during registration.
- **Action**: Enter a weak password and submit the form.
- **Assert:** The system should display a message indicating that the password is too weak.
- **Test Case Name**: Successful registration submission
- Objective: Users can submit with valid input.
- Action: Enter valid names, email, phone number, password, then click sign up.
- **Assert:** The system should redirect the user to a login page.

Requirement 7: Login UI

- Test Case Name: Login form validation
- Objective: Validates user inputs before submission.
- Action: Enter an invalid email format and/or incorrect password, then click login
- **Assert:** The system should display an error message.
- Test Case Name: Successful login submission
- Objective: Make sure users are able to log in.
- Action: Enter a valid email and password, then click login
- **Assert:** The user is redirected to the searching page.