```
+ test('Homepage loads with all necessary elements', async () => {
     await page.goto('https://yourflightbookingapp.com');
     await expect(page).toMatchElement('header');
     await expect(page).toMatchElement('nav');
    await expect(page).toMatchElement('#search-form');
    await expect(page).toMatchElement('footer');
   });
  + test('Flight search form renders with all required fields', async ()
     await page.goto('https://yourflightbookingapp.com');
     await expect(page).toMatchElement('#from-input');
     await expect(page).toMatchElement('#to-input');
     await expect(page).toMatchElement('#departure-date');
     await expect(page).toMatchElement('#return-date');
     await expect(page).toMatchElement('#search-button');
   });
it('Searches for direct flights with valid inputs', () => {
  cy.visit('https://yourflightbookingapp.com');
  cy.get('#from-input').type('New York');
  cy.get('#to-input').type('Los Angeles');
  cy.get('#search-button').click();
  cy.get('.flight-result').should('exist');
});
 + it('Searches for multi-stop flights with valid inputs', () => {
      cy.visit('https://yourflightbookingapp.com');
      cy.get('#from-input').type('New York');
      cy.get('#to-input').type('Tokyo');
      cy.get('#stops-select').select('1 Stop');
      cy.get('#search-button').click();
      cy.get('.flight-result').should('exist');
   });
+ test('Retrieves weekly direct flights matching current week schedule'
    , () => {
  const flights = getWeeklyFlights('NYC', 'LAX', 'direct');
  expect(flights).toHaveLength(7); // Assuming 1 flight per day for
      simplicity
test('Calculates correct total flight time for direct flights', () =>
  const totalTime = calculateTotalFlightTime('09:00', '15:00'); //
      Using HH:MM format
  expect(totalTime).toBe('6 hours');
}):
```

```
test('Converts 12-hour format to 24-hour format accurately', () => {
   const time24 = convertTo24Hour('2:00 PM');
  expect(time24).toBe('14:00');
test('Converts 24-hour format to 12-hour format accurately', () => {
   const time12 = convertTo12Hour('14:00');
   expect(time12).toBe('2:00 PM');
});
+ test('Logs in successfully with correct credentials', async () => {
   await page.goto('https://yourflightbookingapp.com/login');
   await page.type('#username', 'validUser');
   await page.type('#password', 'validPassword');
  await page.click('#login-button');
   await page.waitForNavigation();
  expect(page.url()).toBe('https://yourflightbookingapp.com
      /dashboard');
});
test('Fails to log in with incorrect credentials', async () => {
  await page.goto('https://yourflightbookingapp.com/login');
  await page.type('#username', 'invalidUser');
  await page.type('#password', 'invalidPassword');
  await page.click('#login-button');
  await expect(page).toMatch('Invalid username or password');
});
 test('Fetches correct flights based on search criteria', async ()
   const searchCriteria = { from: 'NYC', to: 'LAX', date: '2023-10
        -05' };
   const results = await fetchFlights(searchCriteria);
   expect(results).toBeInstanceOf(Array);
   results.forEach(flight => {
     expect(flight.from).toBe('NYC');
```

// Assuming date comparison logic or library (e.g., moment.js)

expect(new Date(flight.departureDate)).toEqual(new Date('2023

expect(flight.to).toBe('LAX');

for simplicity

-10-05'));

});
});

```
test('Saves booking details correctly', async () => {
  const bookingDetails = { flightId: '123', userId: '456', seats: 2,
     status: 'confirmed' };
  const savedDetails = await saveBookingDetails(bookingDetails);
  expect(savedDetails).toMatchObject(bookingDetails);
});
```

```
test('Fails to process payment with invalid details', async () => {
  const paymentDetails = { cardNumber: '411111111111111112', expiry:
     '12/24', cvv: '123', amount: 100 };
  const status = await processPayment(paymentDetails);
  expect(status).toBe('failure');
});
```

```
test('Displays user-friendly error messages for common errors', async
   () => {
   await page.goto('https://yourflightbookingapp.com/error-prone
        -operation');
   await page.click('#trigger-error');
   await expect(page).toMatchElement('.error-message', { text:
        'Something went wrong, please try again.' });
});
```

```
jest.mock('../services/errorLoggingService');

test('Logs errors correctly for monitoring and debugging', () => {
  const errorToLog = new Error('Test error');
  handleOperationThatMayFail(); // This function should internally
     call logError on failure
  expect(logError).toHaveBeenCalledWith(errorToLog);
});
```