

How to run this script:

1. Navigate to the app folder in the project or by using "cd app"
2. Run "python app.py" in the terminal to ensure the flask app is running locally
3. Run "python system_tests.py" will generate the test result

Feature 1 - Login and Registration:

This script begins by navigating to the site, opening the login modal, and transitioning to the registration modal. A unique test user is created with randomly generated credentials, which are filled into the registration form and submitted. The script handles a confirmation alert (Registration successful!) before proceeding to test the login functionality. Using the newly created credentials, the script logs in and verifies the success of the process by checking for a confirmation message (Login successful).

Output:

```
PS C:\Users\Nicholas Wang\Documents\Group-5-FS\app> python system_tests.py

DevTools listening on ws://127.0.0.1:54957/devtools/browser/b4ddcb1a-adee-483f-a183-7ff7a1ab5364
Login modal opened.
Sign-up modal opened.
Sign-up form filled.
Sign-up form submitted.
Alert detected: Registration successful!
Registration successful accepted.
Login form filled.
Login button clicked.
Alert detected: Login successful
Login successful accepted.
```

Feature 2 - Create Booking:

This script will test the booking functionality by going to the booking form after a successful login. It fills in the required fields: 'from', 'to', and 'departure' and 'return' dates. Options like 'Direct Flight' and 'Hotel Included' are also checked. Subsequently, it submits the form and verifies a confirmation alert-Booking created successfully! for the booking to have taken place as expected.

Output:

```
DevTools listening on ws://127.0.0.1:57649/devtools/browser/01aec7fd-8d60-4
Navigated to home page.
Login modal opened.
Sign-up modal opened.
Sign-up form filled.
Sign-up form submitted.
Signup Alert: Registration successful!
Signup successful.
Login form filled.
Login form submitted.
Login Alert: Login successful
Login successful.
Booking form is visible.
Booking form filled.
Checkboxes selected.
Booking form submitted.
Booking Alert: Booking created successfully!
Booking creation test passed.
```

Feature 3 - Log out:

This script will make sure that the user log out functionality works as intended. This script, after signing up, logging in, and booking, tests the functionality of the log out feature by clicking the Log out button. Then it confirms the successful execution of the logout process by handling an alert for confirmation -Logged out- and verifying indeed the user session is terminated.

Output:

```
DevTools listening on ws://127.0.0.1:59001/devtools/browser/952069e0-9b6e-4432-8929-4cd040041e32
Navigated to home page.
Login modal opened.
Sign-up modal opened.
Sign-up form filled.
Sign-up form submitted.
Signup Alert: Registration successful!
Signup successful.
Login form filled.
Login form submitted.
Login Alert: Login successful
Login successful.
Booking form is visible.
Booking form filled.
Checkboxes selected.
Booking form submitted.
Booking Alert: Booking created successfully!
Booking creation test passed.
Logout button clicked.
Logout Alert: Logged out
Logout test passed.
```

Work Distribution:

Nick - Login and registration

Saf - Booking creation

Kevin - Logout test