Software Quality Engineer - Take Home Test

1. Purpose

The goal of this test is to provide us with a full understanding of your Quality Engineering abilities, coding style and skills along with emphasis on test automation. We'll pay particular attention to:

- Coding skills
- Knowledge on Automation testing
- The design of test framework
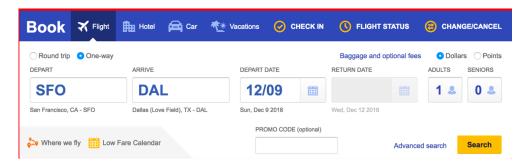- Formulation of test cases

The solution should not take more than half a day to write, though it will be difficult to write a "complete" and top-notch solution in such a short time span. The goal is not to get a solution covering all special cases in a 100% robust way; the functions should be error free when used correctly but our main goal is to understand your approach to the problem.

Please provide a public git repository link once completed. README should provide detailed instructions on how to build, execute the tests. The solution should be self-contained Git project can be coded in any language using Selenium and other testing frameworks. Feel free to execute any design patterns.
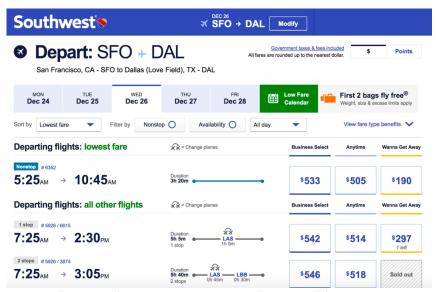
2. Test

Please automate the following scenario on Southwest website. Document the test cases in the README file. Here are the following steps of the test case:

1. Navigate the browser to www.southwest.com
2. Assert and verify that the browser is on the correct URL
3. On the HomePage, make sure the "Flights" tab is selected.
4. Enter any Departure and Arrival airports and dates. It would be better to select options from the dropdown rather than sending them directly. Also, using Calendar functionality would be a plus.

5. Once all the options are filled in, Search for results
6. On the SearchResultsPage, validate your inputs (Airports and Dates) to make sure the right search has been made.

7. Filter by "Nonstop" and validate that only "Nonstop" flights are displayed.
8. Pick any of the flights available and Continue to "TripandPriceDetailsPage."
9. Validate all the inputs on this page along with the price of the flight which was selected in the previous page.

You can create a free public git repository using an email and provide an accessible link to it. Please make sure that the git is public and cloneable.

3. Helpful Links

https://www.seleniumhq.org/download/
http://appium.io/
https://testng.org/doc/eclipse.html
https://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html