**Assumptions for the challenge:**

Due to the vague nature of the Challenge, these assumptions were made in order to complete it.

1. Target for the challenge started at Delta’s website “Book a Flight” page for testing purposes
2. No tools/language/framework specified. Decisions detailed below.
3. Understanding how to leverage selected tools as needed for the challenge
4. Do not get hung up when blocked – give it a best shot and move on, come back later.
5. I will also zip the files up and send it to Amy in the event GitHub link is unreachable even if public.
6. Assuming World Pay is being used for credit card processing (using their #’s)

**Test Approach:**

Use a dual perspective approach. Initially as a Delta member, my goal is to book a flight. Thinking in terms of logical sequence and pages I would need to progress through using expected input that work. A second perspective as a QA would help identify areas where input validation and logical progression can be put in an error state being careful to not deviate from the goal of “booking a flight”. There are accessible areas during the sequence where it can transition away from booking a flight into other areas. A test case will be picked from the manual test cases detailed and be automated with a chosen strategy. I will also include an automated “booking a flight” sequence if I am able to progress enough in other areas.

**Technical Details:**

Development environment and tools will be listed here along with initial reasoning.

Visual Studio Code: <https://code.visualstudio.com/>

Free, flexible text/code editor popular with browser testing. It’s not a full IDE so I needed to configure it for the challenge to edit Python.

GitHub: <https://github.com/spatel991/delta_challenge>

Selenium WebDriver (Python): <https://www.selenium.dev/downloads/>

ChromeDriver (Testing in Chrome): [https://googlechromelabs.github.io/chrome-for-testing/#stable](https://googlechromelabs.github.io/chrome-for-testing/" \l "stable)

Selenium was selected based on user base and popularity in the event I need to research a solution.

Python was selected due to it’s easy readability not really knowing what the ideal mix of tools is for the challenge. I took this as way to experiment. I may also submit a script in an alternate language if time permits.

Libre Office: <https://www.libreoffice.org/download/download-libreoffice/>

Notepad++: <https://notepad-plus-plus.org/downloads/>

Focused on free text editors as I don’t have O356 on my personal laptop.

Alternate Browser: Firefox. Used as a secondary for Inspection purposes.