**ASAPP - QA Automation Challenge**

**What is this about?**

We're giving you the source code of a flaky fake web store. You'll find bugs and imperfections in the design and implementation. **Your goal is to define and document a Testing Strategy and implement it across the testing layers you consider relevant.**

**Expected output**

**(1) Testing Strategy**

We'd like to see a short document detailing your strategy choices.

Please answer these questions, and feel free to include anything else you consider relevant.

● Why did you choose a particular testing layer?

In this case, I had several variables to consider before choosing a particular testing approach: the scope of the project, the timeline available and, since this is a challenge to show some of my knowledge, the range of my skills.

● What were your criteria for the initial suite?

My approach in this challenge was to treat it like a real new project. Taking in to account the given timeline, the first step was to create a sanity check, including UI and API. The idea was to have the minimal value first. Then I create a smoke test to cover the esential functionalities of the application. Selecting the stack of technologies was a process to stay as much close of the real technology used in the company.

● If this was an actual project, which would be your next steps?

The next steps will depend on the project and it needs. As far as I can see we could have two different directions to continue. On one side we can complete the testing regression cycle, covering all the test for the functionalities, increasing the early detection of bugs and increasing drastically the scope and timeline for functional testing. On the other, we can automate all know bugs, increase drastically the early detection of bugs and the minimal quality of the project.

● What sort of tradeoffs did you make in your implementation? What sorts of things would you implement differently if you were designing a framework to test productionized code?

The most important trade offs in the implementation was because ti exist a disconnect with the rest the team. With no documentation for the project, we need to have a close relationship with not only the development teams but also with the product team, for knowing not only were the project is at right now, and all the functionalities, but were the project needs to move fowards.

**(2) Implementation**

The documented strategy will help us understand how you think, but we'd also like to see how you would implement it. We expect you to write a basic framework structure and a few tests that cover critical paths in one or more testing layers.

Some guidelines:

* All responses or code comments must be written in English.
* You're free to use the language and libs you feel more comfortable with, **as long as the project is runnable**. Please explain the instructions in the README file. Our current QA automation stack at ASAPP.
  + Pytest (Python 3)
  + Cypress (Typescript)
* You can build the framework/tests around the app source code, as a standalone project, or both.
* We don't expect a fully-fledged framework, but rather want to understand how you would model/structure a project. That said, we can only evaluate what you present, so be mindful of your code.
* We're leaving the testing layers decisions to you, so be prepared to answer questions about it. Please use docstrings/in-line comments where necessary to explain your decisions or thought process.
* *Bonus Points*: You can leverage the existing docker-compose config or dockerize the tests independently. ***(Not mandatory).***

If you have any questions feel free to ping us!

**How do I start?**

Together with this document, you should have received a zip file containing the project source files. Follow the README file for setup/execution instructions.

**How do I send the solution?**

Please send a zip file with your solution.