Test for QA Engineer

Part 1 - Automated test

To perform this test, it is necessary to share the results with the Koa Health QA team through a GitHub repository. There are no limitations on the language or tools to use, and the only requirement is that it must have the correct step-by-step instructions to launch the tests locally on any of our computers. There are two automation exercises that rely on two external websites. You have to pick only one of the following two to perform an automation test. We have these two different exercises/websites because, at some point, one service can be down, so we want the candidate to have both options.
The steps to share this exercise with the Koa Health QA team are:

1. Create a public GitHub repository with your GitHub user to upload your test automation results.
    a. If you don't have a user or you don't want to upload the result in your personal profile you can create a GitHub account only to publish the test results.
2. Perform either Exercise A or B in your preferred language or framework.
3. Make sure that the tests are passing.
4. Add the instructions in the README.md file of the repo.
5. Share the public repo email by email (so we can download it and run the tests locally in our machines)

Exercise A:

Using the language of your preference, automate the purchase process of a product using http://automationpractice.com, which is a site for practising QA automation over an e-commerce page:

General rules/keys:

- The purchase process includes searching an article using the search box, selecting an article from the list, and complete the purchase flow.
- During the purchase flow what can be validated/asserted
- You can use any programming language, just make sure to provide the proper instruction to execute it (what needs to be installed, how to run it, etc).
- It's important how you structure the code, focusing on code re-use, where to place constants or configuration.

- The scenario must be a data-driven approach meaning that I might be able to create a new scenario just by changing data.
- It must contain a test report indicating steps, results, and screenshots in case of failure.

Exercise B:

Using the language of your preference, automate the reservation process of a flight using https://www.phptravels.net which is a site for practising QA automation over travel reservations:

General rules/keys:

- The reservation process includes searching a flight using the search box, selecting a flight from the list, and complete the reservation flow.
- During the reservation flow what can be validated/asserted
- You can use any programming language, just make sure to provide the proper instruction to execute it (what needs to be installed, how to run it, etc).
- It's important how you structure the code, focusing on code re-use, where to place constants or configuration.
- The scenario must be a data-driven approach meaning that I might be able to create a new scenario just by changing data.
- It must contain a test report indicating steps, results, and screenshots in case of failure.

Part 2 - Define a test case

Taking one of the two websites from the past exercise, create a Test Case scenario (or multiple test cases). The purpose of this exercise is to demonstrate how the candidate writes and defines how a test case should be described.

Part 3 - Open a bug

Taking of the two websites from the past exercise, find any reportable issue within the UI, the user flow, etc. The purpose of this exercise is to demonstrate that the candidate is able to find a bug or undesired behaviour in an application and write a bug ticket following QA best practices.

Part 4 - General knowledge

Select the following fields that are familiar to you (mark with an X):

	Yes	No	Mention any tool that you used if apply
Agile	x		
Docker			
Relational Database	x		
Microservices			
Kubernetes			
NoSQL			
Jira	x		
Confluence	x		
Test Management Tools	x		
Continuous integration	x		
Mobile automation testing	x		
Web automation testing			
Backend automation testing			
Unit Testing			
Performance testing	x		
Certification process (ISO, FDA, etc)			
Gherkin			
Release Management			
QMS (Quality Management System)	x		
Software documentation	x		