Test Automation Challenge
Beloved Robot

The Challenge

You made it to the challenge! That's great! Thanks for your time until now in this process.

This challenge involves automating tests in a web-based app, an iOS native app, and an API. These 3 aspects of software are essential at Beloved Robot.

Tools Selection

You can select the test automation tools you will use for each platform (web, iOS app, and API), but you must justify your choice. Consider factors such as platform compatibility, ease of use, community support, performance, and scalability.

Design Pattern

Using a design pattern is a must. You can decide which design pattern you will use, but must justify your choice.

Environments

Whether the environment provided below can be considered "production", preparing the automation project to run in several environments is required.

Web and iOS Native-App Test Automation

You must develop at least 3 automated tests in the web app **Todoist** (https://todoist.com/).

The web tests should cover at least the Google Chrome browser. Covering other browsers or headless execution is not mandatory, but if you prepare the project to support that, it's a plus.

Also, you have to develop at least 3 automated tests for the **Todoist** iOS mobile app (https://apps.apple.com/uy/app/todoist-to-do-list-planner/id572688855).

You have to decide which functionalities and features you will cover and if the tests will cover positive and/or negative scenarios. You must justify your decision.

API Test Automation

You have to select 3 different endpoints of the following API https://api.chucknorris.io/ and automate at least 5 tests for each of the selected endpoints.

You have to decide which functionalities and features you will cover for each endpoint and if the tests will cover positive and/or negative scenarios. You must justify your decision.

Reporting and Documentation

You must generate comprehensive test execution reports highlighting test results, including passed, failed, and skipped tests. Also, you must create a document explaining the test automation framework setup, including test scenarios and any issues or limitations encountered.

As a plus, you could explain in the document how you would add the automated tests in a CI/CD pipeline (*the desired pipeline is GitLab, but you can consider others*). You are free to decide which reporting tool you'll use.

Deliverables

- **Test automation code/scripts** for web, mobile iOS, and API tests.
- **Justification document** explaining the choice of the tools for each platform, the design pattern you used, and the test scenarios covered in each test. In other words, you have to answer "why" you made the decision you made.
- **Test execution report** demonstrating the effectiveness of the automated tests for each platform.
- **Document** explaining the test automation framework setup.

Delivery Date

You have until **Wednesday, 24th of April, at 6 PM**, to deliver the challenge.
Send the deliverables to diego.gavilanes@belovedrobot.com CCing
agustin.prado@belovedrobot.com.