



Controlant

2021 Controlant QA Homework

Thank you for your interest in joining our team of quality assurance engineers at Controlant. As part of our hiring process, we would like to ask you to complete a short QA exercise. This task should take between 30 and 90 minutes to finish but you are welcome to spend as much or little time on it as you want. We only ask you to please try to return your solution within 3 days.

 Please ensure that you do not host your solution publicly on the internet, i.e. on a public GitHub or GitLab account.

Ready for the fun stuff?

The task is to create a test suite for a web-based API software. Feel free to select any publicly available API to test, some ideas can be found from the list at <https://github.com/public-apis/public-apis>


Your automatic test suite can be written in a programming language of your choice and any manual tests you feel would be needed in a text editor of your own choice.

Please make sure you choose a programming language that you are comfortable with as your solution to this homework will serve as a discussion point in subsequent conversations we may have. At Controlant our QA engineers deal primarily with code written in Python, C#, Java and JavaScript so these are all strong choices.

For any written tests, please submit them in PDF format.

Please ensure that your solution satisfies the following criteria

- Delivered as a single compressed file archive (zip, rar, tar.gz etc) that includes all source code, dependency references, and other resources required to compile and/or run the test suite.
- The majority of the test logic should be your own. Borrowing code or solutions from the public domain is perfectly acceptable provided that you cite the original source.
- Please include clear instructions on how to run your test suite. If possible please include a pre-compiled/packaged executable if applicable.
- Make sure you clearly document all important assumptions, short-cuts, or trade-offs you made in your solution.
- Make producing a working test suite (however limited it is) a priority in your solution. We value a working solution with a limited set of coverage over a buggy/unstable/unfinished solution with a large feature set.
- If you have ideas for tests that you don't have time to implement, please add them to your test code as function names and simply `return` as the function body with a comment as to your intent. You can also submit additional tests as

 Try your best to make the solution and test suite is representative of your best work and show us your preferred way of working. Showcase what is important to you when writing and maintaining software tests.

If something happens

Unexpected things happen in real life and we completely understand that. If you need extra time please let us know. If you for any reason are unable to complete your solution, please still send us what you have with a short description of the current state enclosed.

Assessment

You will be assessed on (but not limited to):

- The creativity of your test cases
- The design of your test suite
- Your code style
- The robustness of your automated tests under repeated execution
- The number of cases created