

Context

At Hearst, we are leveraging multiple technologies interacting with each other. Some of our products use JavaScript based frameworks to provide the user interface – either a single page or multi page. Additionally, we have some API only services making use of regular HTTP requests against a REST-like API.

As part of this prompt, we have created a simple application with a UI that makes an initial API call to populate the dropdown. It also makes an API call when you hit each button and attempts to display the response.

Set up the attached app on your system as described in the README. Read through the code to determine what the app is intended to do.

Part 1

Create a test plan for client and server. Focus on test strategy and test objectives. Provide reasons for the type of testing suggested and why these types of tests were chosen.

Part 2

Create a test suite for the JavaScript client. The expectation is tests for both buttons with different inputs selected in the dropdown.

Use either JavaScript or Python based tooling if you don't have a strong preference.

Report bugs found.

Part 3

Suggest potential improvements to the product based on test results.

Part 4

Explain a load testing strategy for the service. The strategy can be based on specific products.

Part 5

Be prepared to talk about additional aspects of testing in interviews. For example:

- Security
- Authorization
- Consumer-facing app testing vs. Internal-users app testing