

## Lead Quality Assurance Engineer Assessment

You have 60 minutes to complete this assessment.

You can go to the following [git repository](#) to utilize sample code, or feel free to create your own. We would like you to solve this assessment using Java, Rest Assured and Selenium.

We would like you to do the following:

- Create tests that does the following in Chrome and Firefox
  - Configure browser to: disable popups, use browser caching, implicitly wait for 5 seconds and don't load images
  - Open a new tab and navigate to it
  - Hover over a drop down menu and ensure all the options are present
- Create tests that ensure POST, GET, PATCH functions of a REST API (authentication?)
  - Endpoints:
    - POST /tasks - creates a new task
    - GET /tasks/{id} - retrieves a specific task by its ID
    - GET /tasks - retrieves all tasks
    - PATCH /tasks/{id} - updates a specific task by its ID
  - JSON Format:

```
{
    "id": "1",
    "name": "Task Name",
    "description": "Task Description",
    "completed": false
}
```
- Framework questions
  - 1) How do you group test cases in a Selenium framework, and why is this useful?
  - 2) How do you execute only specific tests in a Selenium framework, and what is the advantage of this approach?
  - 3) How do you integrate a Selenium framework with other tools or systems, such as Jenkins or a test management platform?