Software Automation Engineer Assessment

Instructions:

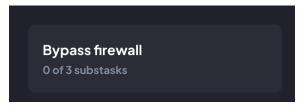
- This coding guiz consists of a Playwright automation script task.
- Read the task description carefully before starting.
- You have 180 minutes to complete the task.
- Upon completion, generate a test report in HTML format.
- Submit a zip of your project containing your script and test report.
- Scoring details are provided for each test case.
- Evaluation criteria outline the aspects that will be assessed during the quiz.
- Good luck!

Task Description:

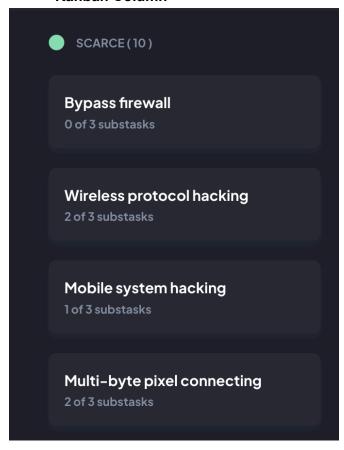
- You are tasked with automating the test cases of a Kanban web application hosted at Kanban.
- Note: The data in the application changes every time you refresh the page. That is
 on purpose. Your goal is to write the tests in a robust way that will work
 consistently even when the data changes.
- Make sure to write both actions (click, fill, etc..) and assertions
- When you are done with your tests run npx playwright test --repeat-each 5
 This will run all of the tests and repeat each test 5 times. Your goal is for all runs to pass

Terminology

Kanban Card



• Kanban Column



The automation script should cover test cases as outlined below. 2nd test case is optional

Test Cases:

1. Edit a Kanban Card

- Description: Edit a Kanban card to mark a subtask as complete and move the card to the first column.
- Steps
 - 1. Navigate to the Kanban app
 - 2. Choose a card with subtasks that are not completed and that is not in the first column
 - 3. Complete one subtask

- 4. Move task to the first column
- 5. Verify that the subtask is striked through
- 6. Close the card edit page
- 7. Verify that the number of completed subtasks is correct
- 8. Verify that the card moved to the correct column

2. [Optional] Delete a Kanban card:

- Description: Delete a kanban card
- Steps:
 - 1. Open the Kanban app
 - 2. Delete a Kanban card
 - 3. Verify that the card is no longer present
 - 4. Verify that the number of cards in the relevant column is updated

Evaluation Criteria:

- 1. Accuracy (40 points):
 - a. The script accurately automates the needed functionality for each test case.
 - b. Expected results are verified correctly for positive and negative scenarios.
- 2. Robustness (30 points):
 - a. Tests run and pass with changing data.
 - b. When a bug is introduced, the test fails.
 - c. The script handles edge cases and unexpected behavior effectively.
 - d. It accounts for variations in page load times and element visibility.
 - e. Error handling mechanisms are implemented to handle script failures gracefully.
- 3. Readability (20 points):
 - a. The script is well-structured and easy to understand.
 - Meaningful variable names and comments are used to improve code clarity.
 - c. Code follows best practices and conventions for Playwright automation.
- 4. Report Generation (10 points):

- a. The generated HTML test report accurately reflects the test results.
- b. Test case scores are included in the report along with relevant details.
- c. The report provides clear insights into the success or failure of each test case.

Submission Instructions:

• Provide a zip file of the repository, not including node modules