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Subject: Intern Technical Challenge
Date: 19 July 2024 at 15:37
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Hi Joe

We're thrilled to have you take on our Intern Technical Challenge! This test is designed to see how you handle unfamiliar concepts such as test case creation and automated testing. You will take on the role of a member of an Agile development team, you will be working on a simple e-commerce application to design test cases and automate them. This task should take no more than 4 hours.

Instructions:

1. **Complete the task by creating detailed test cases.**
2. **Automate one of the test cases using Playwright.**
3. **Ensure your answers are clear and concise.**
4. **Feel free to use any resources (internet, books, etc.), but do not seek help from others.**
5. **Document any assumptions you make.**
6. **Include a section on what you would do differently if you had more time.**
7. **Submit your response in a GitHub repository containing your test cases, code and any other supporting evidence.**

Estimated time to complete: 3 to 4 hours. Please adjust the output accordingly. Submit your completed task by Wednesday, 24th July 2024, before 13:00.

Task Outline: Test Case Creation and Automation

Scenario: Online Shopping Cart Feature

You are tasked with testing a basic online shopping cart feature on a website. The feature allows users to:

- Add items to the cart.
- View items in the cart.
- Update the quantity of items in the cart.
- Remove items from the cart.
- Display the correct total price based on the items and their quantities.

Feature Description:

1. Users can add products to the cart from the product listing page.
2. Users can view the cart to see all added products, their quantities, and the total price.
3. Users can update the quantity of any product in the cart.
4. Users can remove products from the cart.
5. The cart displays the correct total price based on the items and their quantities.

Website to Use:

React Shopping Cart demo site:

- React Shopping Cart demo site:
 - <https://react-shopping-cart-67954.firebaseio.com/>
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Part 1: Test Case Creation

Create detailed test cases for the shopping cart feature using the React Shopping Cart demo site. For each test case, include the following details:

1. **Test Case ID:** A unique identifier for the test case (e.g., TC001, TC002).
 2. **Test Case Description:** A brief summary of what the test case will verify.
 3. **Preconditions:** Any setup required before executing the test (e.g., user must be on the product listing page).
 4. **Steps to Execute:** Detailed steps to carry out the test.
 5. **Expected Result:** The expected outcome of the test.
 6. **Actual Result:** (To be filled out during actual testing, leave blank for this task)
 7. **Status:** (To be filled out during actual testing, leave blank for this task)
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Part 2: Automation Using Playwright

Choose one of your test cases and automate it using Playwright. Customise the provided script structure to fit your chosen test case for the React Shopping Cart demo site.

Please see the attached document for installation guidance.

Further Notes

Documentation of Assumptions:

Include a section where you document any assumptions you make during this task. For example:

- Assumptions about user permissions.
- Assumptions about the state of the application (e.g., the cart starts empty).
- Any default settings or configurations assumed.

Additional Improvements:

Include a section on what you would do differently if you had more time. For example:

- Additional test cases you would write.
- Further details or scenarios you would cover.
- Tools or methodologies you would use to enhance testing.
- Document any bugs or issues found during testing.

Deliverables:

- A GitHub repository containing your test cases and code.
 - A README file that explains how to run your tests and any dependencies required.
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Evaluation Criteria

- **Completeness:** Are all aspects of the task addressed?
- **Accuracy:** Do the test cases correctly verify the functionality?
- **Clarity:** Are the test cases and automation scripts easy to understand?
- **Documentation:** Are assumptions and additional improvements clearly documented?
- **Code Quality:** Is the Playwright script well-structured and functional?

Tips:

- Feel free to ask clarifying questions about the platform or features if needed.
- If you have questions about playwright, please feel free to message Zoard or Myself.
- The purpose of this challenge is to see how you handle unfamiliar concepts such as test case creation and automated testing and adapt, so use this opportunity to demonstrate your strengths and potential.
- If there are any assumptions you need to make during the testing, please document them.
- Focus on the critical path of the scenarios, but feel free to add additional test scenarios if time permits.

We look forward to reviewing your response!

Cheers

Steven Bone

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