Testing Engineer Challenge

Thank you for your interest in the Testing Engineer position. As part of the assessment process, we would like you to complete the following tasks to evaluate your testing skills.

Part 1: Manual Testing

Task Overview: The manual testing part focuses on the checkout process of the e-commerce website SauceDemo, using the "standard_user" account. You will create test ideas for high coverage, prioritize them based on potential business impact, and document any bugs encountered.

Manual Deliverables:

1. **Testing Ideas (Bullet Points)**:
   - Provide a list of ideas or high-level bullet points covering what you would test within the checkout process, specifically as the **"standard_user."**
   - Focus on achieving good test coverage across critical areas (e.g., adding items to the cart, viewing the cart, entering shipping/payment details, and completing the purchase).
2. **Prioritization**:
   - Prioritize your testing ideas based on their potential business impact.
   - Indicate which tests should be conducted first (e.g., high-impact functionality like payment completion or basic cart functionality) and briefly explain why these are prioritized.
3. **Bug Report**:
   - Document any issues while testing the checkout process as the **"standard_user"**.
   - For each bug, provide:
     - **Title**: Short, descriptive title of the issue.
     - **Steps to Reproduce**: Detailed, step-by-step instructions.
     - **Attachments**: Screenshots or videos, if applicable.
     - **Affected Devices/Network**: Specify relevant device, OS, browser, and network details.
     - **Severity**: Assess the severity of the issue (e.g., Critical, Major, Minor).
     - **Priority**: Rank the priority of the issue for resolution.

Part 2: Automation Testing

Task Overview: You will automate a user journey on the e-commerce website SauceDemo. This test focuses on core functionalities such as logging in, adding products to the cart, verifying the contents, and completing a purchase using data from an external API.

Test Steps:

1. **Login** to the website using the standard user credentials on the login screen.
2. Add the product **"Sauce Labs Fleece Jacket"** to the cart.
3. Open the **"Sauce Labs Onesie"** product details page and add it to the cart.
4. **Assert** the number of products displayed on the cart icon (should be 2).
5. **Navigate** to the cart page and verify the names and prices of the added products.
6. Proceed to checkout, dynamically entering user data (e.g., First Name, Last Name, and Zip/Postal Code).

   `Optional Bonus Step`: Use data provided by the JSONPlaceholder API to retrieve mock data for First Name, Last Name, and Zip/Postal Code.

7. **Assert** the order details on the overview page.
8. Complete the purchase by clicking **Finish** and verifying the "Complete" page.

Technology: You can use any automation framework or tool you are comfortable with (e.g., Cypress, Playwright, Selenium, etc.). Please ensure your solution is scalable and maintainable.

Automation Deliverables:

- A GitLab repository with your test automation scripts.
- Add the following as reviewers to your GitLab repo with **Developer** :
  - khaled.aboulezz@robustastudio.de
  - ziad.tawfeek@robustastudio.com
- A brief README file explaining how to set up and run the tests.

Final Submission Notes:

- Please send an email sharing the manual task and a link to the GitLab repository to:
  - khaled.aboulezz@robustastudio.com
  - ziad.tawfeek@robustastudio.com
  - raghda.mostafa@robustastudio.com
- Ensure all work is well-organized and clearly labeled.
- Check that your GitLab repository is accessible and that reviewers have the appropriate permissions.
- Double-check that your README file includes setup and run instructions and any dependencies or configuration requirements. Ensure your solution works with different operating systems (e.g., Windows, macOS).
- Submit your test ideas, prioritization, and bug report as a single document.
- Organize the document with clear sections for each deliverable.

Deadline: Please complete and submit all deliverables within **3 days** of receiving this task.

Note: We understand that this task requires a considerable amount of work, so please focus on completing as much as you can within the time frame. Your progress and coverage will be taken into consideration in our assessment.

Evaluation Criteria: Your submission will be evaluated based on:

- **Automation Task**: Code quality, structure, and the robustness of your automation framework.
- **Manual Task**: Coverage, depth, and documentation quality of your test plan, test cases, and bug report.

Good Luck!
Thank you again for your interest in joining our team. We look forward to reviewing your submission and assessing your automation and manual testing skills.