### **Interview Homework: QA & Automation Tester**

#### **Introduction**

Welcome to the QA & Automation Tester assignment at Kaleidoo! This assignment evaluates your ability to create comprehensive test documentation, develop automation scripts, and identify bugs in a real-world application. The tasks will assess your skills in both manual and automated testing and your ability to communicate findings effectively.

#### **Assignment Overview**

In this assignment, you will work on a website, [**https://homme.co.il**](https://homme.co.il), focusing on three key areas. Your tasks will include writing a Software Test Description (STD) that covers all the in-scope areas, developing an end-to-end automation test, and identifying and reporting at least one bug. You are encouraged to think critically about the test scenarios, ensuring comprehensive coverage and professional-quality code.

**In-Scope Areas:**

1. **התחברות** (Login)
2. **מאגר דירות** (Apartment Listings)
3. **פרסום מודעה** (Publish Ad)

#### **Application Under Test (AUT)**

The application you will be testing is [**https://homme.co.il**](https://homme.co.il). This platform allows users to log in, browse apartment listings, and publish ads for properties. As part of this assignment, you will focus on the login process, the functionality of browsing apartment listings, and the complete workflow of publishing an ad.

You will be provided with a test account to perform your tests:

* **Username:** tester
* **Password:** tester123!@#qwe

Please make sure to test the application thoroughly, considering both functional and non-functional aspects, as well as potential edge cases.

#### **Tasks Overview**

1. **Create a Comprehensive STD (Software Test Description)**
   * Develop a single Software Test Description (STD) document that encompasses 2 out of the three in-scope areas: התחברות (Login), מאגר דירות (Apartment Listings), and פרסום מודעה (Publish Ad).
   * Include at least two comprehensive test cases for התחברות (Login) and at least one test case each for מאגר דירות (Apartment Listings) and פרסום מודעה (Publish Ad).
   * Ensure the test cases cover both positive and negative scenarios.
   * Each test case should include detailed information such as reproduction steps and expected and actual results.
   * Organize the STD document, with separate sections for each area, to maintain readability and structure.
2. **Write an End-to-End (E2E) Automation Test**
   * Create an end-to-end automation test specifically for the "Publish Ad" (פרסום מודעה) functionality.
   * The test should include steps from logging into the system, creating an ad, and verifying that the ad is successfully published.
   * You may use any programming language or testing framework you are comfortable with.
   * Ensure the automation test is well-structured, with clear and maintainable code, minimal duplication, and includes comments where necessary.
3. **Identify and Report a Bug**
   * As you work through the tasks, identify at least one bug in any in-scope areas.
   * Document the bug with a concise report (e.g., title, description, severity, etc.).

#### **Guidelines:**

* **Comprehensive Testing:** Focus on writing comprehensive tests covering different scenarios, edge cases, and possible user behaviors.
* **Coding Practices:** Ensure the code you submit is well-organized, follows best practices, and prevents unnecessary repetition.
* **Documentation:** Write clear and concise documentation for your test cases and automation code. This includes adding comments to your code where necessary.
* **Language and Tools:** You are free to use any programming language or testing framework with which you are most comfortable.

#### **Submission Guidelines:**

* Package your STD, automation test script(s), and bug report in a single **.zip** file named YourName\_QAHomework.zip.
* Include a **README** file with instructions on running the automation test.
* **Bonus:** Upload all files to GitHub with a clear **README** file and share the link.

### **Estimated Time to Complete:**

* **4 to 5 hours.**

### **Evaluation Criteria:**

1. **Test Coverage:** How well the test cases cover different scenarios and edge cases.
2. **Automation:** The quality, structure, and effectiveness of the automation test.
3. **Bug Reporting:** Clarity, detail, and accuracy of the bug report.
4. **Code Quality:** Adherence to coding best practices, maintainability, and code readability.
5. **Documentation:** Completeness and clarity of the STD and bug report.

Good luck, and we look forward to reviewing your work!