QA Testing Engineer Profile Test (Behave, Selenium, SQL, Python, testing knowledge, Jmeter, Postman)

This test was built in 3 parts, a functional one with requirement analysis, automation, SQL Databases basics and some questions about software testing.

Part 1:

* With the following scenarios, automate the interaction. For this you should use whether version of the listed frameworks you like: Python and selenium.
  1. Scenario 1: User can search with “Google Search”
     + Given I’m on the homepage
     + When I type “test automation” into the search field And I click the Google Search button
     + Then I go to the search results page, and the first 3 results contain the word “automation”
  2. Scenario 2: User can go to the first search result
     + Given I Search by keyword
     + When I click on the first result link
     + Then I go to the page, and the page title contains the word “automation”

Guidelines:

You are testing https://www.google.com.

Always make use good principles and practices when designing your Solution.

Implement your automation solution, if possible, following the Page Object Model pattern and BDD paradigm.

* With the following scenarios, automate the request. For this you should use the last version of Jmeter and Postman
  1. Scenario 3: User can login
     + Use the following link and builds the corresponding requests to login

<https://the-internet.herokuapp.com/login>

* 1. Scenario 4: User can upload file
     + Use the following link and uploads any file to the webapp

<https://the-internet.herokuapp.com/upload>

Part 2 (SQL Basic Scripting):

1. Explain the difference, in databases, between ‘Having’ and ‘where’ when it comes to a query. Develop one example for each one of this two cases and point out the difference.
2. Write a query for create a data table ‘Student’ with the following attributes in it: ‘Name, ‘Code, ‘Class’, ‘Age’, ‘Favorite Subject, ‘GPA’ (5.0 scale).
3. Insert at least 40 records in the last table with close to real data.
4. Write a query to get the average of the GPA from all the students which name starts with ‘A’.
5. Write a query to get the list of students that are in the same class, have a GPA higher than 3.5/5.0 and order them by Age and Name.
6. Write a query to get the list of all the students with ‘Name, ‘Code, ‘Class’, ‘Age’, ‘Favorite Subject, ‘GPA’.
7. Take the following 25 question quiz about SQL, please include a screenshot about the results and time it took to take the test.

<http://www.w3schools.com/quiztest/quiztest.asp?qtest=SQL>

Part 3 (Software Testing Knowledge):

1. What is the difference between a unit test, an acceptance test, an integration test and an end-to-end test?
2. Could you explain Cohn's automation pyramid?



1. Could you explain the difference between a black box testing and a white box testing?
2. What is the purpose of an exploratory test and when is it useful to run them?
3. Mention at least 5 test design techniques and explain them briefly
4. What is the purpose of the following types of tests?
   1. Functional test:
   2. Performance test:
   3. Security test:
   4. Usability test:
   5. API test:
   6. Unit Test:

References:

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