CTAL-TAE^{Q&As}

Certified Tester Advanced Level - Test Automation Engineer (CTAL-TAE)

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QUESTION 1

The GUI of a Customer Relationship Management (CRM) application has been delivered through internet Explorer with proprietary Active X and Java controls. This implementation enables rich client capabilities, but specific commercial automation tools are necessary to automate test cases at GUI of functional test cases. This is to demonstrate whether a small set of the commercial are able to properly recognize actions taken by a tester when interacting with GUI of the CRM application.

Which of the following scripting techniques would be MOST suitable in this scenario?

A. Data-driven scripting

B. Keyword-driven scripting

C. Linear scripting

D. Structure scripting

Correct Answer: D

QUESTION 2

You are using a gTAA to create a TAS for a project. The TAS is aimed at automatically and executing test cases based on a use-case Modeling approaching that uses UML as a modeling language. All the interaction between TAS and SUT will only be at the API and GUI level. Which of the following components of the gTAA would you EXCLUDE from the TAS?

A. The test reporting component of the test execution layer.

B. The Test execution component of the test generation layer

C. The test execution (test engine of the test execution layer

D. The Command Line Interface (CLI) component of the test adaptation layer

Correct Answer: D

QUESTION 3

Your goal is to verify completeness, consistency and correct behavior of an automated test suite. The TAS has been proven to successfully install in the SUT environment. All the preliminary checks to verify the correct functioning of the automated test environment and test tool configuration, installation and setup have successfully completed. Which of the following is NOT a relevant check for achieving your goal in this scenario?

A. Checking whether all the test cases contain the expected results

B. Checking whether the post condition have been fulfilled for all the test cases

C. Checking whether the loading of the TAS is repeatable in the SUT environment

D. Checking whether all the test cases produce repeatable outcomes

Correct Answer: D

QUESTION 4

You are currently designing the TAA of a TAS. You have been asked to adopt an approach for

automatically generating and executing test cases from a model that defines the SUT. The SUT is a state-

based and event-driven that is described by a finite-state machine and exposes its functionality via an API.

The behavior of the SUT depends on hardware and communication links that can be unreliable.

Which of the following aspects is MOST important when designing the TAA in this scenario?

A. Looking for tools that allows direct denoting of exceptions and actions depending on the SUT events.

B. Adopting a test definition strategy based on classification tree coverage for the test definition layer.

C. Looking for tools that allow performing setup and teardown of the test suites and the SUT.

D. Adopting a test definition strategy based on use case/exception case coverage for the definition layer.

Correct Answer: C

QUESTION 5

Consider the following layers of the gTAA structure:

a.Test generation layer

b.Test definition layer

c.Test execution layer

d.Test execution layer

Consider the following capabilities associated with these layers.

Acquire all the necessary resources before each test and release all after run, in order to avoid

interdependences between test

Allow the automated test scripts on an abstract level to interact with components, configurations and

interfaces of the SUT.

Design test directives that allow configuring the algorithms used to automatically produce the test cases a

given model of the SUT.

Allow the definition and implementation of test cases and data by means of templates and/or guidelines.

Which of the following BEST matches each layer with the appropriate capability?

A. a-3, b-4, c-1, d-2

B. a-4, b-3, c-1, d-2

C. a-4, b-3, c-2, d-1

D. a-3, b-4, c-2, d-1

Correct Answer: C

QUESTION 6

A project consists of distributed teams working in a 24-hour environment, where activities happen at all

hours of the day. This project adopts a CI (Continuous Integration) process when developer check-in code

and consists of automated activities that include generating a build and deploying it to a test environment.

Automated integration tests are run multiple times a day. The project have asked for a report containing

the automation test results for every build, which must be available 24/7 to the project team.

Which of the following would be the BEST way to automatically provides this report?

A. Store the execution results of the integration tests for the last build to a database (without overwriting the results from the previous builds), use this database to automatically update a dashboard containing the build history and test results accessible to the project team.

B. Store the execution result of the integration tests for the last build to a database (overwriting the results from the previous build), automatically create a test execution report for this build send It via e-mail to the project team

C. Store the execution results of the integration tests for the last build to a database (without overwriting the results from the previous builds). Automatically create a test execution report for this build and send it via e-mail to the project team

D. Store the code coverage results of the integration tests for the last build to a database (without overwriting the results from the previous builds). And automatically create a chart showing the trend in code coverage and send via email to the project team.

Correct Answer: A

QUESTION 7

Consider a TAS that uses a keyword-driven framework. The SUT is a web application and there is a large set of keywords available for writing the automated tests that relate to highly specific user actions linked directly to the GUI of the SUT. The automated test written with the keywords are statically analyzed by a custom tool which highlight\\'s repeated instances of identical sequence of keywords. The waiting mechanism implemented by the TAS for a webpage load is based on a synchronous sampling within a given timeout. The TAS allows checking a webpage load every seconds until a timeout value.

A. Changing the scripting approach to data-driven scripting

B. Implementing keywords with a higher level of granularity

C. Changing the wait mechanism to explicit hard-coded waits

D. Establishing an error recovery process for TAS and SUT

Correct Answer: B

QUESTION 8

Which of the following metrics could suggest, under certain condition that an automated regression test suite has NOT been updated for new functionalities added to the SUT?

A. The ratio of comments to executable statements in the SUT code.

B. The SUT code coverage provided by the execution of the regression test suite.

C. The defect density in the automation code of the regression test suite.

D. The ratio of commands to executable statements in the automation code of the regression test suite

Correct Answer: C

QUESTION 9

Which of the following BEST describes why it is important to separate test definition from test execution in a TAA?

A. It allows developing steps of the test process without being closely tied to the SUT interface.

B. It allow choosing different paradigms (e.g event-driven) for the interaction TAS and SUT

C. It allows specify test cases without being closely tied to the tool to run them against the SUT

D. It allows testers to find more defects on the SUT

Correct Answer: D

QUESTION 10

Designing the System Under Test (SUT) for testability is important for a good test automation approach and can also benefit manual test execution. Which of the following is NOT a consideration when designing for testability?

A. Observability: The SUT needs to provide interface that give insight into the system.

B. Re-useability: The code written for the SUT must be re-useable for other similar system.

C. Clearly defined architecture: The SUT Architecture needs to provide clear and understandable interfaces giving control and visibility on all test levels.

D. Control: the SUT needs to provide interfaces that can be used to perform actions on SUT.

Correct Answer: A