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QUESTION NO: 1

Which of the following attributes should NOT be included in a test execution report associated with a suite of automated tests?

A. Summary of the test execution results

B. System/Application under test and its version

C. Defect clusters identified during test execution

D. Environment in which the tests have been executed

ANSWER: C

QUESTION NO: 2

You have implemented a keyword-driven scripting framework, which uses a test execution tool to run the tests. This has been in use for the past year and all of the teams now use this framework as the standard approach for test execution.

The teams all work on different aspects of the SUT and they have all experienced significant benefits in the use of this scripting framework. However, on closer examination, you have discovered that there are numerous instances where the teams have the same functionality to test but are using different keywords.

One of your objectives for improvement is to create consistency among the teams.

What is the BEST way to handle this situation?

A. Move to a model-based approach to scripting where the models include the keywords.

B. Do nothing, each team are working in isolation and they are all experiencing significant benefits in the way they are currently working.

C. Provide each team with a set of guidelines and naming conventions for keywords.

D. Create a central library of keywords and associated definitions for each team to use.

ANSWER: D

Explanation:

Reference: https://www.scriptworks.io/blog/automation-testing-framework/

QUESTION NO: 3

You are implementing a TAS for a system that has been live for over three years, using a hybrid waterfall and agile lifecycle. Live updates are made on a monthly basis.

There is no test team, with developers designing and executing unit and integration tests with some degree of automation and business analysts designing and executing manual tests at the system level. No formal test process exists, although the system has proved relatively stable for most of the time.

Unfortunately, the last two monthly releases were problematic with regression defects found in production. Your priority is the automation of functional regression tests at the system level, the budget for this has been approved by project stakeholders.

The Business Analysts have identified which test cases are most suitable for regression. You must use the organisation's long standing commercial automation tool which has passed a proof of concept in the platform for the system in question.

Which of the following suitability criteria needs the MOST attention for the TAS?

A. Technical planning in support of ROI analysis

B. Frequency of use.

C. Compatibility and tool support

D. Maturity of the test process

ANSWER: C

Explanation:

Reference: https://www.softwaretestinghelp.com/guide-to-functional-testing/

QUESTION NO: 4

You have investigated a new tool which enables the modelling of the SUT and can then generate test cases either manually or automatically. You have convinced your managers that the best way forward is to conduct a pilot project for this tool. You need to select a project to use for the pilot. You have the choice of the following projects:

Project A: A two-year project that is critical to the business and is currently in the requirement phase. This project is for a new e-commerce web site and is mostly being developed “in-house" although the payment system is being developed and delivered by a 3rd party provider.

Project B: A safety critical application for software to drive and park cars.

Project C: An upgrade to an important HR timesheet tracking application that will be available on a desktop and mobile application. This is a 1-month project developed in-house.

Project D The payment system from project A.

Which project would be BEST for the pilot?

A. Project A because it is a large project and has high visibility and is in the requirement phase.

B. Project B because it is a safety critical system and has high visibility.

C. Project C because it is a short, low priority project but is important.

D. Project D because it is a small part of a larger project and will help show the tool’s capabilities.

ANSWER: D

QUESTION NO: 5

When the SUT provides insight into the behaviour of the system, providing the users the with the status of the various actions performed so that they can check that expected behaviour equals actual behaviour, what is this called?

A. Portability.

B. Maintainability.

C. Observability.

D. Controllability.

ANSWER: C

Explanation:

Reference: https://www.toptal.com/designers/ux-consultants/how-to-conduct-usability-testing-in-6-steps

QUESTION NO: 6

A major component of your organisation's Test Automaton Solution (TAS) is a popular open-source third-party capture-replay tool for automated functional testing.

Which two of the following must the Test Automation Engineer (TAE) ensure happens for this TAS?

a) The third party tool is placed under configuration management control.

b) The annual support and maintenance costs are agreed with the tool's vendor.

c) It is Important to obtain information about updates and new versions of the tool so that the third party tool is kept up to date.

d) Ensure that the TAS test scripts are integrated into the tool's framework.

e) Ensure that no changes are made to the tool, because modifications are not allowed for third party products.

A. a and b

B. c and d

C. a and c

D. d and e

ANSWER: A

QUESTION NO: 7

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

ANSWER: B

QUESTION NO: 8

Consider the following example of TAS metrics.

Time to execute automated tests

Speed and efficiency of TAS components

Which of the following statements is TRUE?

A. A and B are both internal TAS metrics

B. A is an internal TAS metric and B is an external TAS metric

C. A and b are both external TAS metric

D. A is and external TAS metric and b is an internal TAS metric

ANSWER: D

QUESTION NO: 9

Your organisation has successfully implemented a Test Automaton Solution (TAS) for a new project which has since been delivered into production via a number of sprints. A series of maintenance releases are now planned.

Some improvements were made to the Test Automation Architecture (TAA) as a result of feedback from the early sprints. The TAA improvements affected the TA, and the TAS was changed for the final sprint.

The new version of the TAS was generally well received but some performance and usability issues were encountered with the TAS which have yet to be addressed.

The test automation engineers supporting the maintenance releases must decide whether to use the enhanced TAS or the version that was used successfully for previous sprints.

What is the BEST action to take next?

A. Perform an analysis of risks versus benefits for the enhanced TAS and then decide which version to use.

B. Use the previous version because this was proven to work. It will be too risky to use the new version, with unresolved issues, for a live system.

C. Use the new version because, despite some issues, it works, and the live system should not be tested using a different TAS.

D. Use the new version of the TAS for the first maintenance release on a trial basis. If issues are encountered, switch to the previous version for later releases until the issues are resolved.

ANSWER: D

QUESTION NO: 10

A web application was released into production one year ago, it has regular release which follow a V-model lifecycle and testing is well-established and fully integration into the development lifecycle. You have been asked to implement a TAS for the regression test suite. The regression tests have been developed via the GUI and are expected to be run at least four times a month, for each planned release, for the whole operation solution life of the system (six years). Each screen of the GUI uses several third-party controls which are not compatible with the existing automation solutions. The environment for the automation will be stable, fully controllable and separated from other environments (development, staging, production).

What could be the MOST problematic for this TAS?

A. Maturity of the test process

B. Complexity to automate

C. Frequency of use

D. Sustainability of the automated environment

ANSWER: D