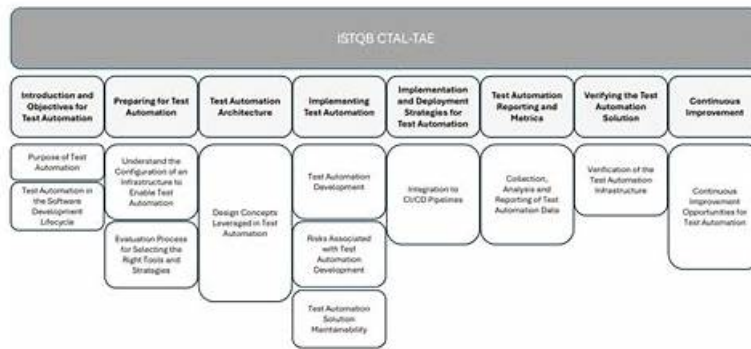


CTAL-TAE_V2考題寶典 - CTAL-TAE_V2測試



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>> CTAL-TAE_V2考題寶典 <<

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問題 #31

An automated test script makes a well-formed request to a REST API in the backend of a web app to add a single item for a product (with ID = 710) to the cart and expects a response confirming that the product is successfully added. The status line of the API response is HTTP/1.1 200 OK, while the response body indicates that the product is out of stock. The API response is correct, the test script fails but completes, and the message to log is: The product with ID = 710 is out of stock. Cart not updated. When this occurs, you are already aware that both the failed test and the API are behaving correctly and that the problem is in the test data. The TAS supports the following test logging levels: FATAL, ERROR, WARN, INFO, DEBUG. Which of the following is the MOST appropriate test logging level to use to log the specified message?

- A. FATAL
- B. DEBUG
- C. INFO
- **D. WARN**

答案：D

解題說明：

TAE logging guidance focuses on making logs actionable while reflecting severity and intent. Here, the test failed due to an expected, non-system fault condition: the product is out of stock, which is a valid business- state response and confirms the API behaved correctly. The issue is that the test data (product availability) did not satisfy the test's precondition. This is not a fatal condition

(FATAL) because execution continues and the overall system is not unusable. It is not best treated as ERROR either (not offered as an option here) because an error-level message usually indicates a defect, malfunction, or unexpected failure needing immediate engineering attention. INFO would be too low because it may be lost among normal run messages and does not adequately flag that the test outcome is affected by a precondition violation requiring action (e.g., reseeding data, choosing a different product ID). DEBUG is typically reserved for highly detailed diagnostic traces intended for deeper troubleshooting, not for highlighting a test-data problem affecting test validity.

WARN is intended for abnormal or noteworthy conditions that do not indicate a product defect but may require attention to maintain test reliability. Therefore, WARN is the most appropriate level.

問題 #32

You have been tasked with adding the execution of build verification tests to the current CI/CD pipeline used in an Agile project. The goal of these tests is to verify the stability of daily builds and ensure that the most recent changes have not altered core functionality. Currently, the first activity performed as part of this pipeline is the static source code analysis. Which of the following stages in the pipeline would you add the execution of these smoke tests to?

- A. As a first activity, before performing static source code analysis and before generating the new build
- **B. After deploying the new build to the test environment and before performing more extensive testing**
- C. As a final activity, immediately before releasing the new build into production
- D. After performing static analysis on the source code and before generating the new build

答案: B

解題說明:

Build verification tests (often called smoke tests) are intended to provide fast confirmation that a new build is deployable and that core, end-to-end functionality remains intact. TAE describes these as early, lightweight checks that run after deployment to a suitable test environment, because they need an executable, running instance of the SUT to validate system readiness. Static analysis occurs before packaging/deployment and is a quality activity on source code; smoke tests are runtime checks. Running them before generating the build (A or B) is not feasible because there is no deployed artifact to validate. Running smoke tests as the final activity right before production release (D) defeats their purpose as an early feedback mechanism and increases risk by discovering basic failures too late. The practical and TAE-aligned placement is immediately after deploying the new build into the test environment and before launching broader, longer-running regression, system, or acceptance suites. This ensures failures are detected quickly, prevents wasting time running extensive tests on an unstable build, and provides a clear quality gate for "is this build worth testing further?" Therefore, stage C is the correct insertion point for build verification tests.

問題 #33

Which of the following descriptions of what some test automation tools can be used to do is TRUE?

- A. Analyze test results, code changes, and metrics to predict potential defects and areas of high risk within an application
- B. Autonomously design intuitive UIs and evaluate them, as well as evaluate the overall UX (User Experience) of an application
- **C. Make video recordings of UI testing sessions to share with stakeholders to show the functionality and appearance of an application**
- D. Autonomously perform exploratory testing sessions based on test charters to find defects within an application

答案: C

解題說明:

TAE recognizes a range of supporting capabilities offered by test tools beyond pure scripted execution, including reporting, evidence capture, and run artifacts that help stakeholders understand what was tested.

Video recording of UI test sessions is a common feature in several UI automation ecosystems and cloud device /browser platforms, used to provide visual evidence of steps performed, failures observed, and the application's look-and-feel during execution. This supports debugging and communication with non-technical stakeholders. Option A overstates what test automation tools do: autonomously designing intuitive UIs and evaluating UX is largely outside typical test automation tool scope and requires human-centered design methods. Option C is also overstated: exploratory testing is inherently human-driven; tools can assist (session notes, heuristics support, telemetry) but do not truly conduct exploratory testing autonomously based on charters in the general TAE framing. Option B touches on advanced analytics and AI/ML-assisted quality insights; while some platforms offer risk prediction features, the phrasing implies broad predictive defect capability, which is not a standard, dependable tool function emphasized in TAE compared with concrete capabilities like artifact capture. Therefore, the clearly true, commonly supported capability is making video recordings of UI testing sessions.

問題 #34

Consider a TAS aimed at implementing and running automated test scripts at the UI level on web apps. The TAS must support cross-browser compatibility for a variety of supported browsers, by ensuring that the same test script will run on such browsers in the same way without making any changes to it. This is achieved by introducing appropriate abstractions into the TAA for connection and interaction with different browsers.

Because of this, the TAS will be able to make direct calls to the supported browsers using each different browser's native support for automation. Which of the following SOLID principles was adopted?

- A. Dependency inversion principle
- B. Open-closed principle
- C. Liskov substitution principle
- D. Interface segregation principle

答案： A

解題說明：

The scenario describes introducing abstractions so that test scripts do not depend directly on concrete browser-specific automation implementations. Instead, tests depend on an abstraction (e.g., a "BrowserDriver" interface), while each concrete browser implementation (Chrome, Firefox, Edge, etc.) provides its own adapter using native automation support. This is a classic application of the Dependency Inversion Principle (DIP): high-level modules (test scripts and business-level actions) should not depend on low-level modules (specific browser drivers); both should depend on abstractions. Additionally, details (browser-specific integrations) depend on the abstraction, not the reverse. TAE emphasizes that this reduces coupling and improves maintainability: you can add or update browser implementations with minimal impact on test definitions. While Open-Closed is also supported (extending with new browser adapters without modifying existing tests), the key phrase "introducing appropriate abstractions" specifically to decouple tests from concrete drivers is DIP. Liskov Substitution relates to substituting implementations without breaking correctness, and Interface Segregation concerns keeping interfaces small and specific—neither is as directly targeted by the described architectural decoupling. Therefore, the SOLID principle most clearly adopted is Dependency Inversion.

問題 #35

A TAS is used to run on a test environment a suite of automated regression tests, written at the UI level, on different releases of a web app: all executions complete successfully, always providing correct results (i.e., producing neither false positives nor false negatives). The tests, all independent of each other, consist of executable test scripts based on the flow model pattern which has been implemented in a three-layer TAF (test scripts, business logic, core libraries) by expanding the page object model via the facade pattern. Currently the suite takes too long to run, and the test scripts are considered too long in terms of LOC (Lines of Code).

Which of the following recommendations would you provide for improving the TAS (assuming it is possible to perform all of them)?

- A. Modify the architecture of the SUT to improve its testability and, if necessary, the TAA accordingly
- B. Split the suite into sub-suites and run each of them concurrently on different test environments
- C. Implement a mechanism to automatically reboot the entire web app in the event of a crash
- D. Modify the TAF so that test scripts are based on the page object model, rather than the flow model pattern

答案： B

解題說明：

The primary problem is execution time; correctness and independence are already strong. TAE recommends improving feedback time for long-running regression suites by parallelizing execution when tests are independent and the infrastructure supports it. Because the tests are explicitly independent, they are well-suited to parallel execution across multiple environments (or multiple nodes within an environment), reducing overall wall-clock duration without changing test intent. Option B addresses crash recovery, but the scenario says executions complete successfully; crash recovery does not solve the current bottleneck. Option A changes the modeling pattern; it may or may not reduce LOC, but it introduces risk and rework without directly addressing runtime. Also, flow model and facade-expanded page objects are already architectural choices aimed at maintainability and reuse; replacing them is not the most direct solution for speed. Option D (improving SUT testability) can help in general, but it is invasive, expensive, and not targeted to the stated issue when tests already yield correct results. Therefore, the best improvement is to split the suite and run parts concurrently on different environments to reduce total execution time, consistent with TAE guidance on scaling automation execution.

問題 #36

Disposable vapes

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