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Contents

- **Selenium:** Widely used for web automation and Regression testing with support for multiple programming languages and frameworks.
- **Quick Test Professional (QTP)**: A functional automation tool for web and desktop applications using VB scripting.
- **Sikuli:** A GUI-based tool that automates applications using image recognition.
- **Appium:**An open-source framework for automating mobile applications across Android and iOS platforms.
- **Apache JMeter:** An open-source tool used for performance and load testing.
  - **Unit testing:**Validates individual components or functions in isolation during development.
  - **Integration testing:**Ensures correct interaction and data flow between integrated modules.
  - **Smoke testing:**Performs a quick check to verify that critical functionalities are working properly.
  - **Performance testing:**Evaluates system speed, stability, and responsiveness under different workloads.
  - **Regression testing:**Confirms that recent code changes have not affected existing features.
  - **Security testing:**Identifies vulnerabilities to protect application data and systems.
  - **Acceptance testing:**Verifies that the application meets business requirements and user expectations.
  - **API testing:**Validates API functionality, reliability, security, and performance.
  - **UI testing:**Ensures user interface elements function correctly and display as intended.
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- ### Popular Automation Tools square bullet check

  These are widely used tools in software testing that help automate web, mobile, and performance testing to improve efficiency and accuracy.

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  ### Best Practices for Test Automation

  Effective test automation requires well planned and maintainable test strategies to achieve reliable results.

  - **Create Self-Contained Test Cases**: Write clear, independent test cases that are easy to understand and maintain.
  - **Define Test Execution Order:** Organize tests logically to ensure proper test flow and dependency management.
  - **Use Automated Scheduling**: Choose tools that support scheduled and trigger-based test execution.
  - **Enable Failure Alerts**: Configure notifications to quickly identify failures and take appropriate action.
  - **Continuously Review Test Plans:** Update and remove obsolete tests as the application evolves.

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a. Requires high initial setup cost for tools, frameworks, and scripting.
b. Not suitable for exploratory, usability, or UI experience testing that needs human judgment.
c. Needs skilled testers with programming knowledge to create and maintain test scripts.
d. Can become time-consuming to maintain when the application changes frequently.
e. May not detect visual or logical issues that require human observation.

α. LOWER GREEK CHECK
β. **Define Test Execution Order:** Organize tests logically to ensure proper test flow and dependency management.
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ε. **Continuously Review Test Plans:** Update and remove obsolete tests as the application evolves.

i. LOWER ROMAN CHECK !
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iv. manual effort. It helps teams test applications faster, more accurately, and supports continuous integration and delivery.

i. Reduces manual effort and speeds up test execution, especially for repetitive tasks.
ii. Improves accuracy and consistency by minimizing human errors.
iii. Enables faster releases by integrating with CI/CD pipelines.

A. UPPER ALPHA CHECK

A. **Improved Quality Assurance:** Ensures consistent and accurate test execution, reducing human errors and improving software quality.
B. **Faster Bug Detection:** Identifies defects quickly and more reliably compared to manual testing.

C. **Reduced Human Effort:** Test cases can run automatically with minimal human intervention.
D. **Higher Test Coverage:** Enables testing across multiple scenarios, environments, and datasets.
E. **Supports Frequent Testing:** Allows repeated execution of tests, making it ideal for continuous integration and delivery.
I. Upper roman check