

7 Ways to Maintain Test Automation Without Slowing Down Development

Test automation can be the development hero that speeds up your market releases. When done right, automated testing can both enhance the software's reliability and prevent issues even before they arise. Learn from our experts on how to maintain effective test automation without slowing down development.

1 | Focus On The Right Tests



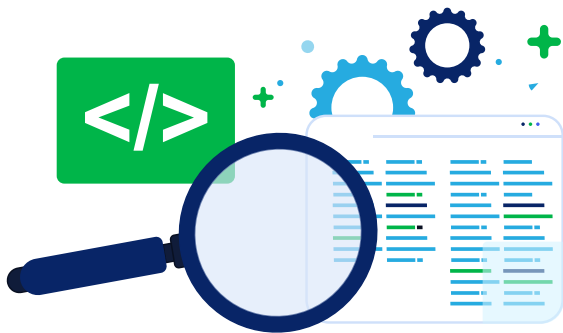
- Prioritize testing critical functionalities, error-prone areas, and frequent bugs.
- Pay special attention to features actively used by end-users.
- Regularly evaluate and update test cases to remove redundant ones

2 | Write Maintainable Test

Write tests with a clear structure using frameworks like page object models, which help separate UI components from test logic for better maintainability and more accessible updates.



3 | Use Data-Driven Testing



- Keep test data separate from test scripts.
- Updating data files instead of rewriting test cases makes the process more efficient and adaptable to changes.

4 | Implement Self-Healing Mechanisms

- Utilize frameworks that handle minor UI changes without requiring a complete rewrite of scripts.
- Use tools that offer built-in features, such as AI capabilities, to manage these updates efficiently.



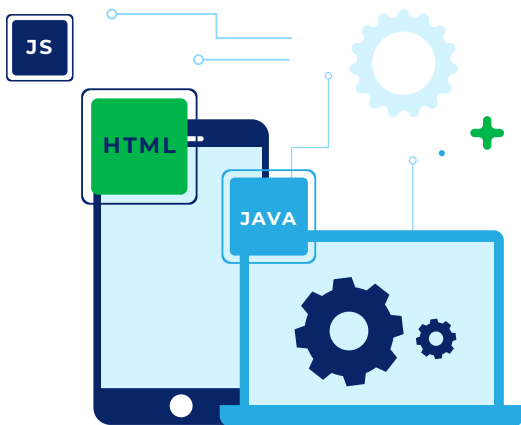
5 | Use Three-Pronged Approach



Optimize execution time by using the three-pronged approach:

- Parallelization: Distributes tests across multiple machines to speed up execution.
- Smart waits: Prevent tests from stalling due to slow-loading elements.
- Caching: Leverage built-in browser features to store data and eliminate redundant fetches during test runs.

6 | Integrate Into CI-CD Pipeline



Ensure that test suites are integrated into the CI-CD pipeline to maintain effective test automation practices and support continuous integration and delivery.

7 | Foster Collaboration Between Testers And Developers

- Utilize low-code or no-code tools to quickly create automated tests to accelerate the testing process.
- Encourage shared ownership of test automation between testers and developers.



Looking to optimize your testing practices for maximum ROI? Contact KMS Healthcare at:

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