5 types of automation frameworks

1

Linear Framework

Testers sequentially create test scripts and individually run them.

There is no need to write custom code. So testers don’t have to be automation experts.

Pick one functionality, write a script, and test. Speed is biggest Pro for this framework

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2

Modular-Based Framework

Breaks down the test automation project into reusable and independent modules

Each module focuses on specific functionalities of application

Modules are organized based on the functional areas of the application (e.g., login, registration, checkout).

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3

Keyword-Driven Framework

Abstracts test logic into keywords representing test actions or operations.

Allows testers to write tests in plain English or domain-specific language, independent of the underlying automation code.

We can customize our own keywords and also Robot Framework is popular implementation

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4

Data-Driven Framework

Segregates test script logic and test data.

Aim is to create reusable test scripts for testing different data sets

Testers can vary the data to change testing scenarios. This ensures reusability of code.

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5

Hybrid Test Framework

A hybrid test framework mitigates the weaknesses of different test frameworks

It provides flexibility by combining parts of different frameworks to harness the advantages

Commonly used Hybrid framework strategy is combining Data-Driven and Keyword Driven

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Advantages of Frameworks

1. Optimization of Resources
2. Increased Volume of Testing
3. Simultaneous Testing
4. Enhanced Speed and Reliability
5. Fixing Bugs at an Early Stage
6. Remote Testing
7. Reusable Automation Code
8. Increased ROI

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