



Understand Data-Driven Testing

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1. Overview

Data-driven testing (DDT) in Zoho QEngine allows you to automate test cases using different input data sets. This approach allows delivering high-quality services and applications. A key advantage of DDT is that it enables you to test both expected outcomes (positive test cases) and unexpected conditions (negative test cases) using the same test script. You can create data sources to store multiple data sets, which allows you to test various scenarios without altering the core script. By separating test logic from test data, DDT enables you to apply the same test case iteratively with different inputs. This not only reduces redundancy but also simplifies test maintenance by eliminating the need to create multiple similar tests, as changes to test data or logic can be managed independently. The method ensures comprehensive coverage of test scenarios, including edge cases, thereby enhancing the efficiency and effectiveness of your testing process.

For example, a user is testing a web form's submission process by inputting various sets of data, such as different names, email addresses, and phone numbers. This ensures that the form correctly handles all input types, processes the submissions accurately, and displays appropriate error messages or confirmations based on the input data. By automating this process with data-driven testing, you can efficiently verify that the form performs well across multiple scenarios.

 **Note:** Zoho QEngine supports data-driven testing on both [web](#) and [mobile](#) platforms, allowing for comprehensive testing across different environments.

1.1 Steps to achieve data-driven testing in Zoho QEngine

Zoho QEngine has simplified the iterative testing process, making it easier to execute and validate tests across different cases, through DDT. The following are the steps involved in performing data-driven testing:

- [Create and Manage Data Source](#)
- [Create Data-Driven Test Cases](#)
- Live Preview for Data-Driven Test Cases

 **Note:** Once your data-driven test cases are created, you can choose to associate them with a [test plan](#). Test plans facilitate scheduled testing and provide timely analysis of the tested functionalities.

2. Related Links

- [Create and Manage Data Source](#)
- [Create Data-Driven Test Cases](#)

3. What's Next?

Next Steps

Now that you've gained an understanding about data-driven testing, let's explore how to [create and configure data sources](#). Data sources provide the necessary inputs required for your test iterations.