



# Create Data-Driven Test Cases

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## 1. Overview

Data-driven testing allows you to separate test logic from test data, enabling a single test case to run multiple times with different input values. Zoho QEngine streamlines this process, ensuring your application behaves as expected under various conditions and inputs. To learn more about data-driven testing, refer to [Understand Data-Driven Testing](#). [Data sources](#) play a critical role in the testing process, as they contain the input values used for each test iteration.

[Test cases](#) can be configured to utilize the required [data source](#) containing the input values during execution. Parameters of the selected data sources can be referenced within the testcases by supplying as arguments to any [task](#). As the test case iterates through the data source, parameters in the test case are dynamically replaced by the corresponding values from the data sets stored in the selected data source. Upon completion, a test case summary is generated, offering a comprehensive analysis that includes the overall results and detailed logs

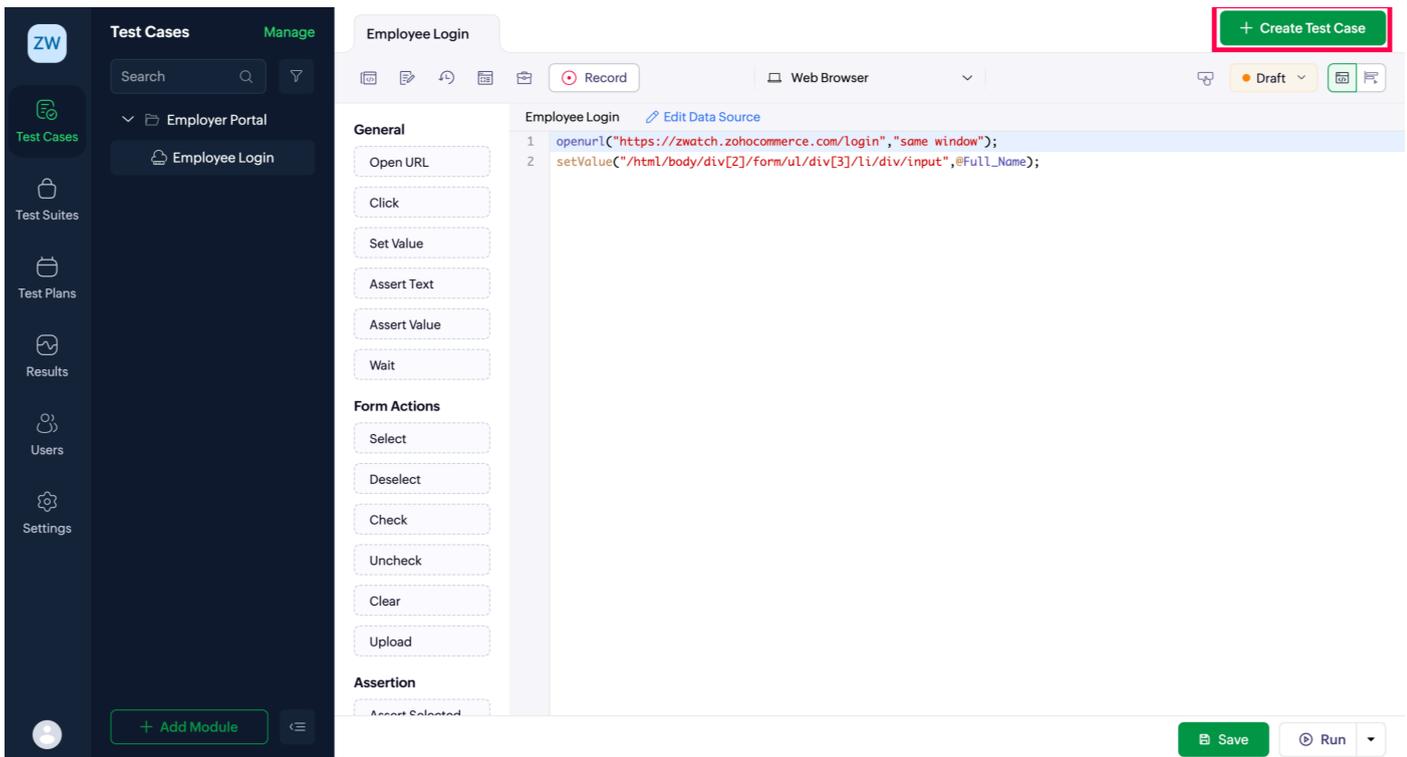
for each iteration. When these data-driven test cases are incorporated into a test plan, they are treated as a single test case, with the results page displaying iteration logs for each data set used.

**Note:** Data-driven testing is supported on both [web](#) and [mobile](#) platforms.

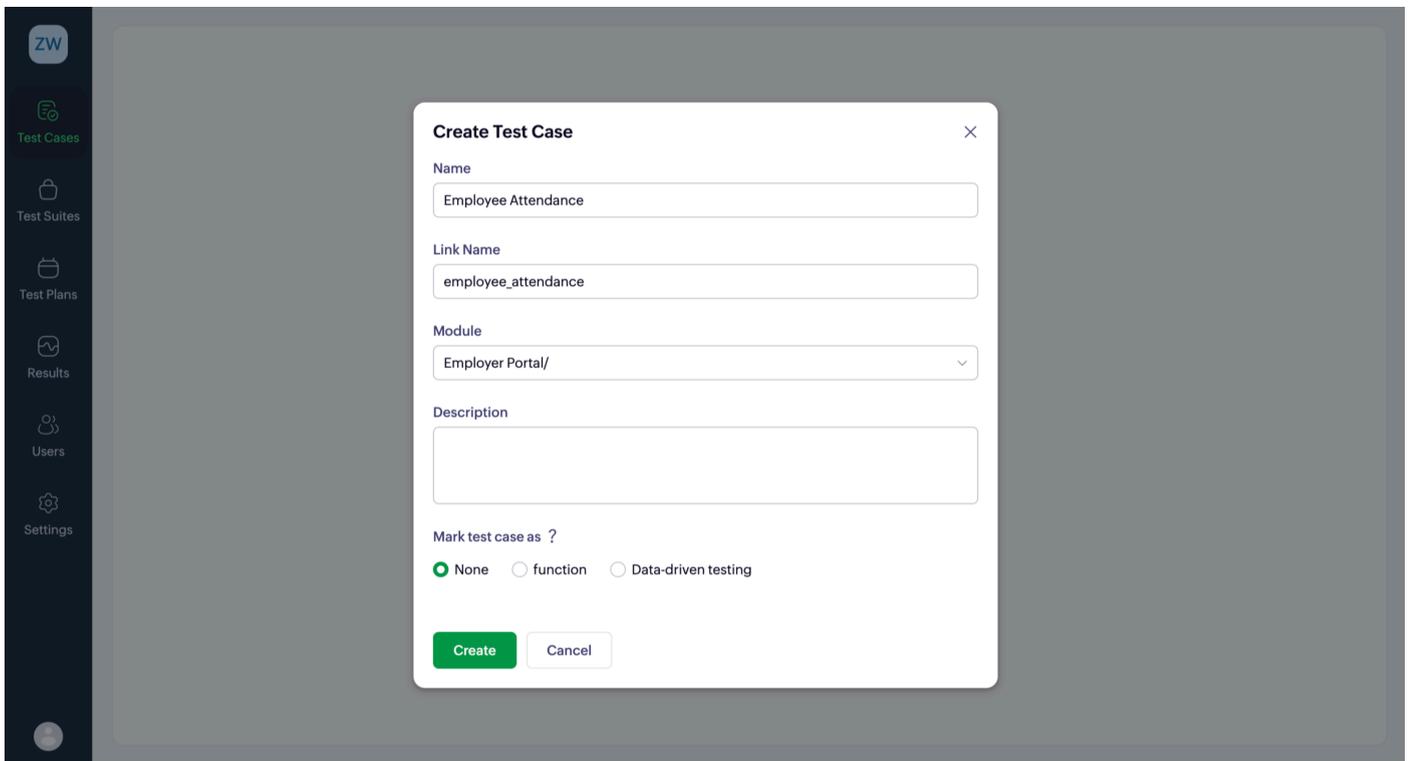
## 2. Create data-driven test cases

Follow the steps below to create data-driven test cases.

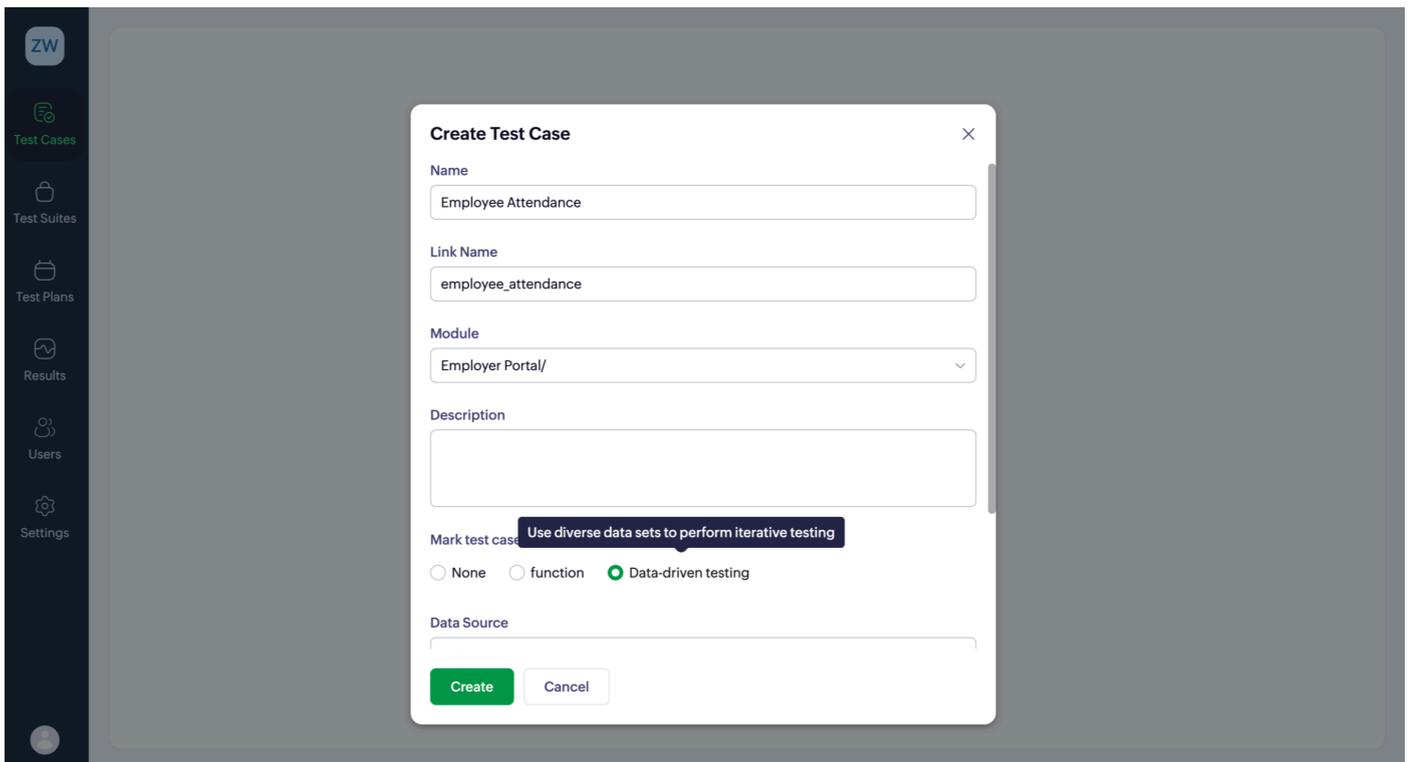
1. Click **Create Test Case**.



2. Enter the test case details, such as *Name*, [Link Name](#), and associate it with the required [Module](#). Additionally, providing a *Description* helps you get an overview of the test case, but isn't mandatory.



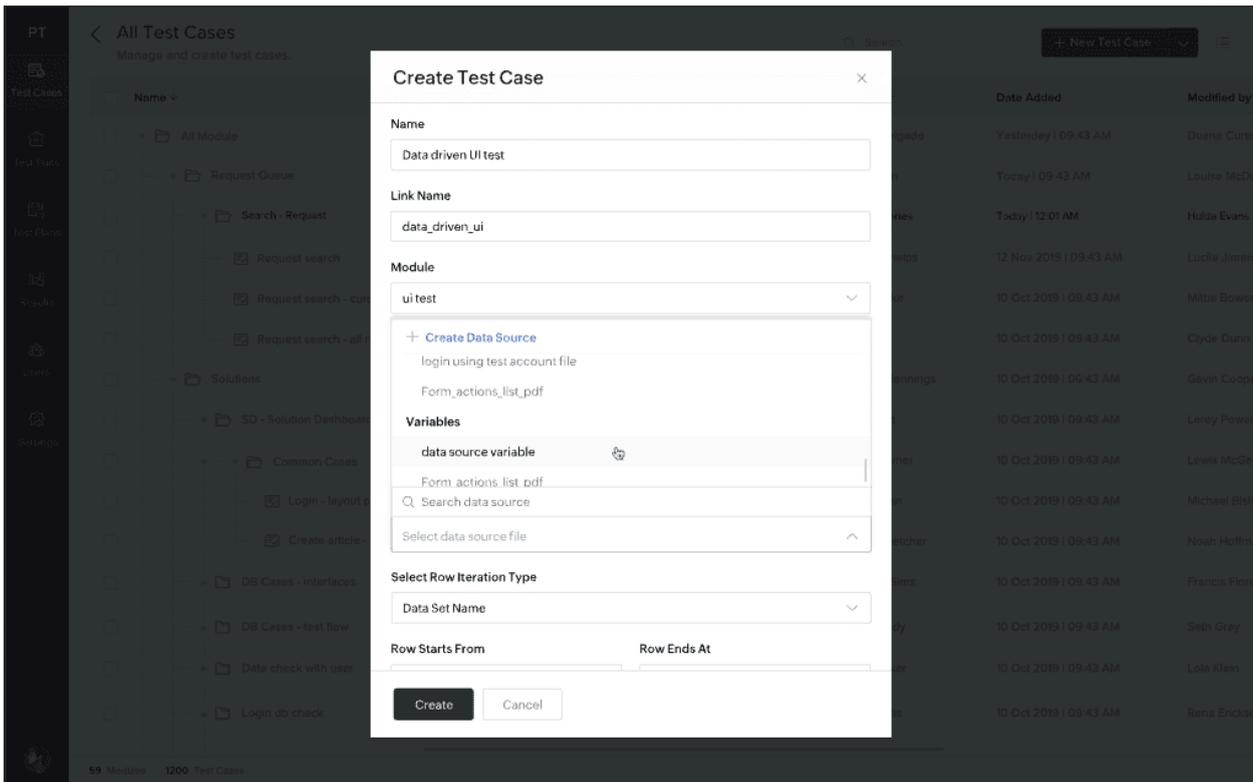
3. Select **Data Driven Testing** from the **Mark Test Case As** section to convert the test case into a data-driven test case.



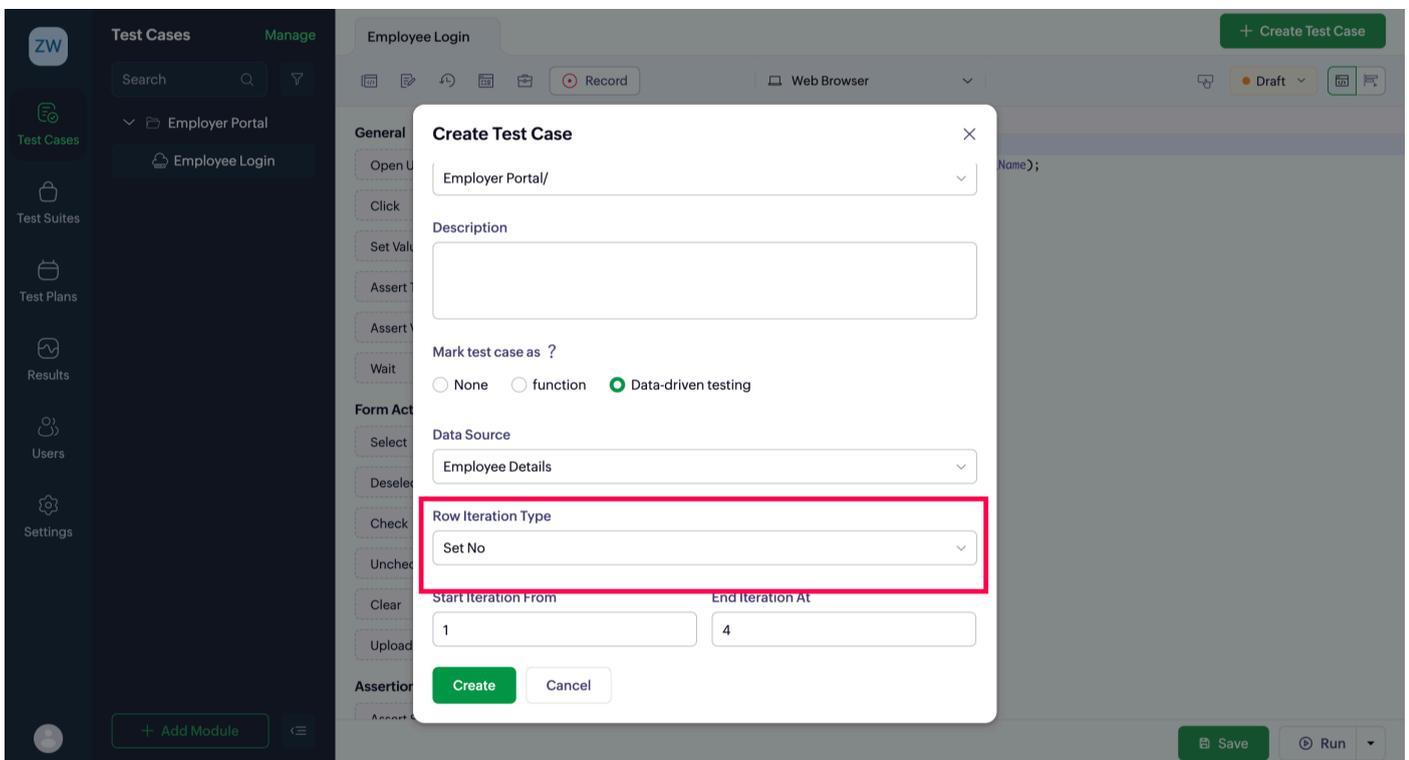
4. Select a data source from the **Data Sources** list.

Alternatively, you can select the data source from the global variable list to enable test case execution across different environments. By creating environment-specific data source variables and a corresponding global variable with the same name, the appropriate data source is dynamically referenced based on the selected environment during execution.

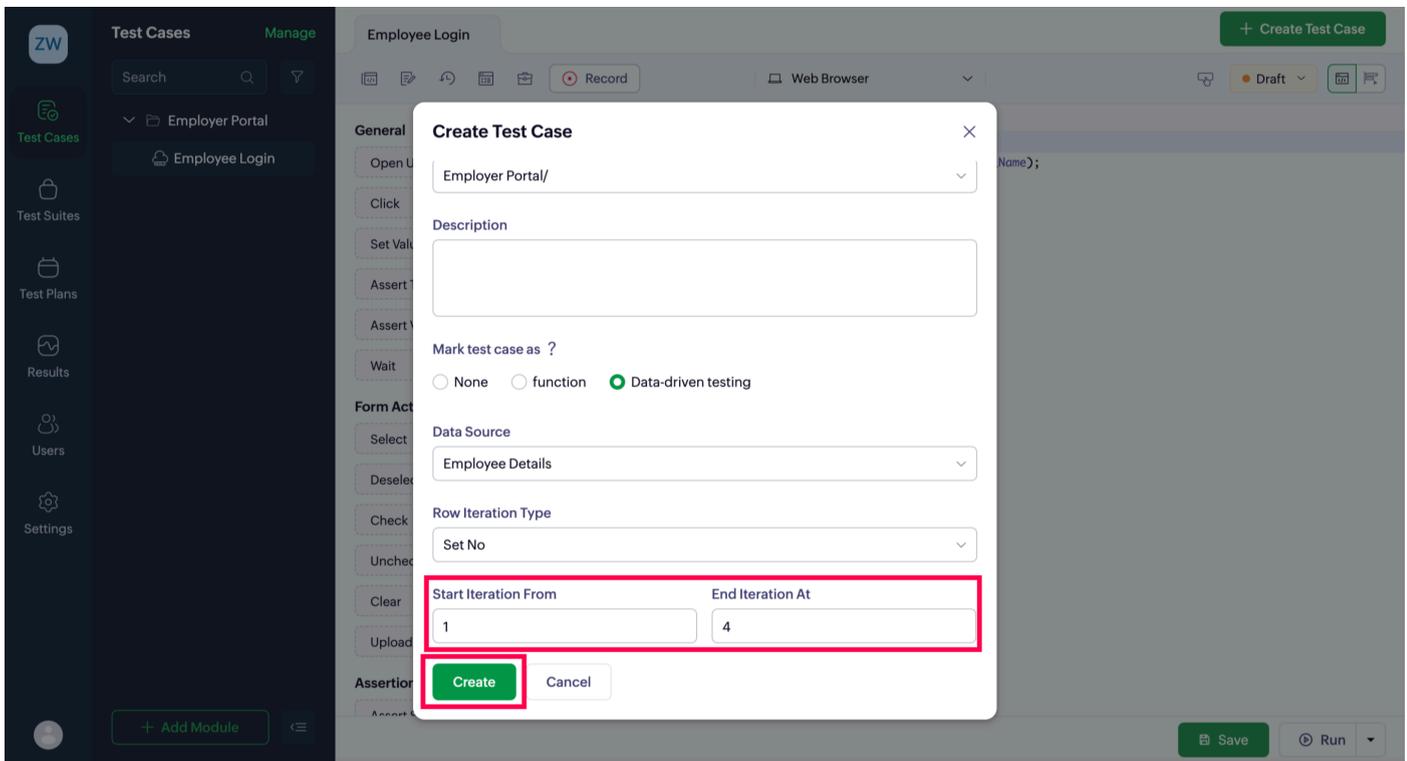
If you don't have a data source created or need a new one, click **Create Data Source**.



5. Select a **Row Iteration Type** to define how [data sets](#) are displayed in [live preview of test cases](#) or in [results page of test plans](#). This choice controls the display format of iteration logs, showing them by *Data Set Name*, *Set Number*, or a combination of both.



6. Specify the **Start Iteration From** and **End Iteration At** fields. They define the range of iterations by indicating where the iteration begins and ends within your data sets.



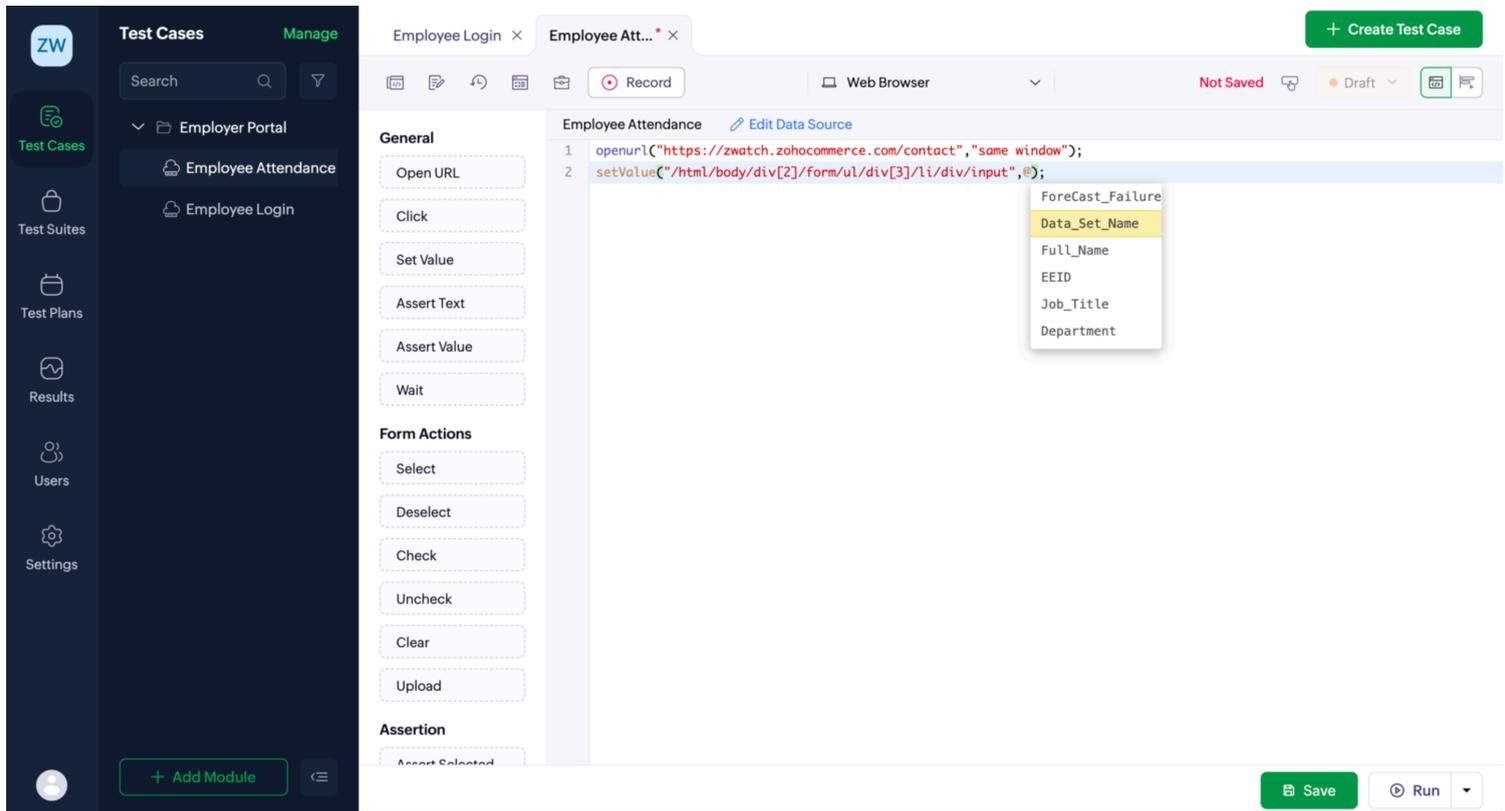
7. Once the required fields are filled, click **Create**.

## 3. Refer data sources in test cases

Now that you've learned how to [create a data-driven test case](#), let's see how to reference data stored in [data sources](#) within your data driven test cases.

### 3.1 Using the Editor mode

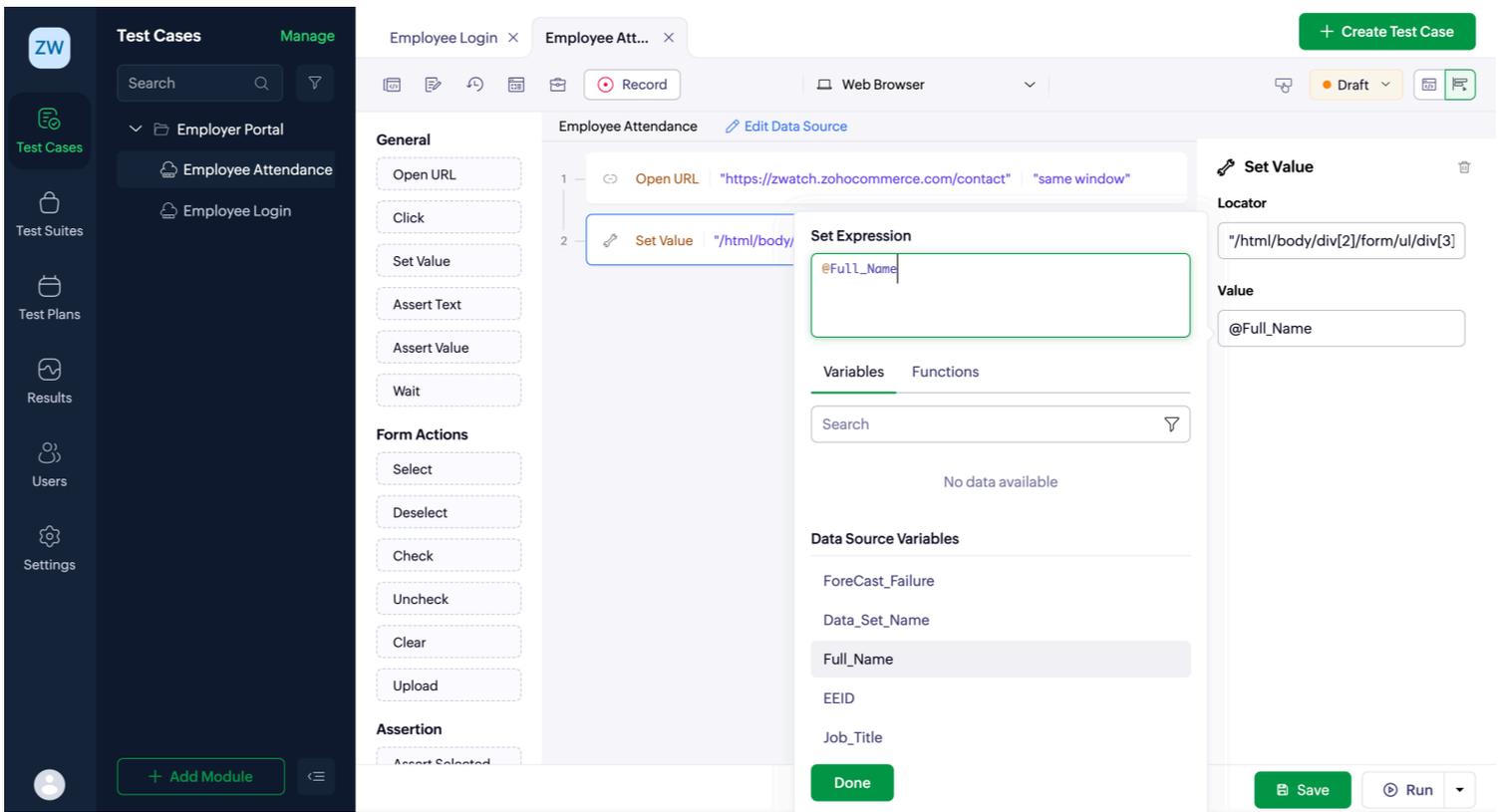
The [parameters](#) created can be used inside test cases using the symbol "@". As you type "@", all the parameters from the data source used for the creation of the test case will be auto-suggested. Choose the required one to use.



## 3.2 Using the set expression pop up in Builder mode

The parameters can also be used with the [Set Expression pop-up](#) by clicking on a task in Builder mode.

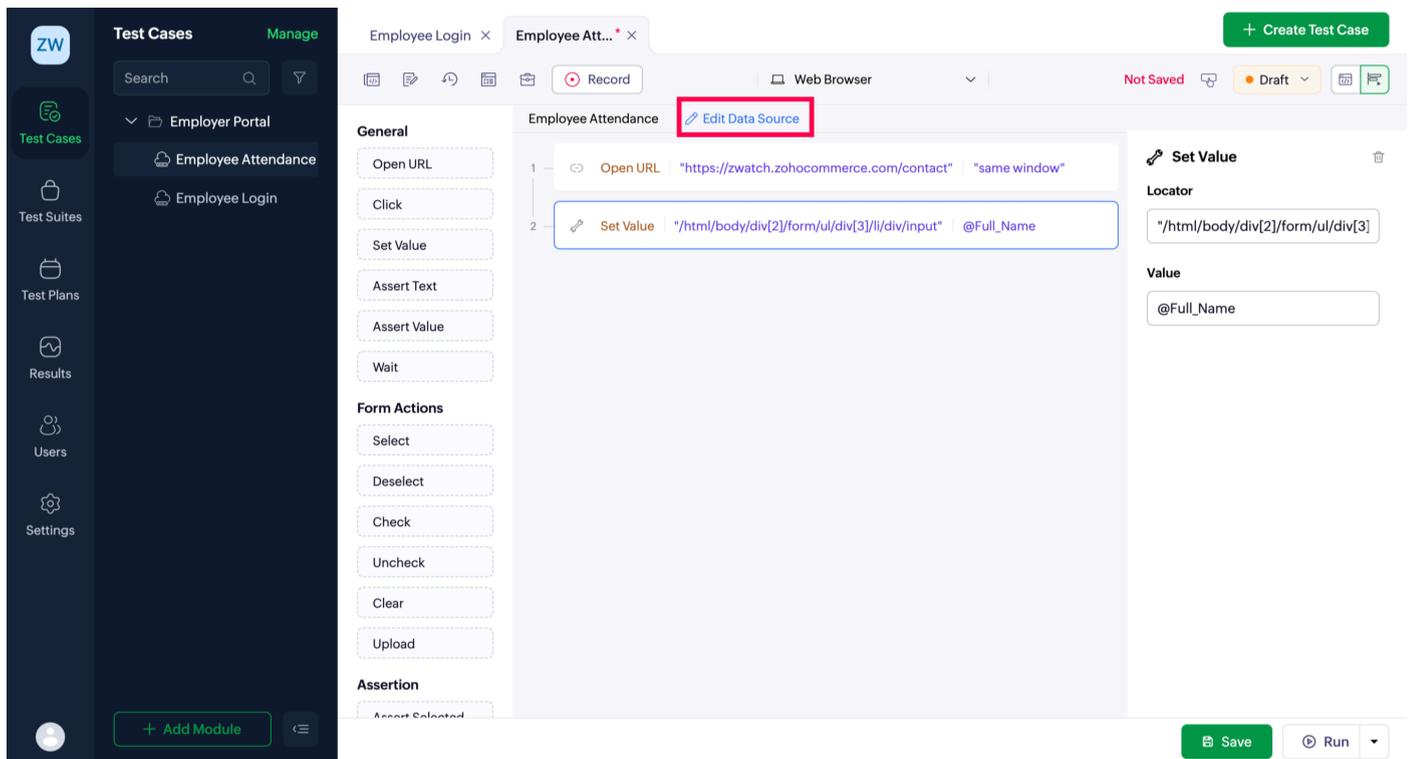
1. Choose the desired parameter from the **Data Source Variables** list.
2. Click **Done**. Now, the parameter values will be automatically supplied to the value field of the selected task.



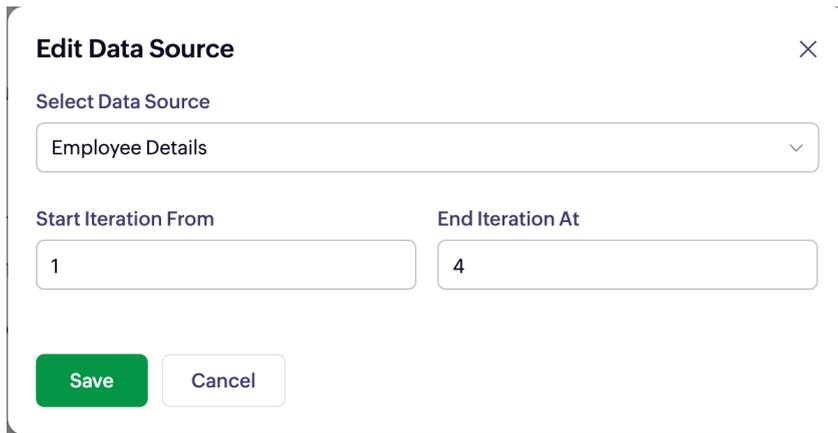
## 4. Modify the data source in a test case after creation

The Edit Data Source option lets you modify the data source referenced within a test case.

1. Click **Edit Data Source**.



2. You can edit the data source related fields, such as the **Data Source**, **Row Iteration Type**, **Start Iteration From**, and **End Iteration At**.



**Edit Data Source** [Close]

Select Data Source

Employee Details [Dropdown Arrow]

Start Iteration From: 1

End Iteration At: 4

Save Cancel

3. Click **Save**.

#### Note:

1. Data source modifications done post creation of a test case are specific to the respective platforms (web, android, iOS, or API).
2. After updating the data source in the test case, ensure the parameters in the test case match those in the updated data source.

## 5. Related Links

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

## 6. What's Next?

### Next Steps

Now that you've created your data-driven test cases, explore how to run the test cases and view their

[live preview](#) or [test plan executions](#).

## Previous Steps

Before diving into creating data-driven test cases, ensure you're familiar with [how to create data sources](#).