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TESTING TOOLS

Data-Driven Approach to Automate Website in Katalon Studio

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Katalon Studio

Automating Website with Katalon Studio: A Data-Driven Approach

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Web Automation with Katalon Studio: A Data-Driven Approach

Katalon Studio is a robust test automation software tools designed for web and mobile applications. With an intuitive user interface and built-in keywords, it simplifies test case creation and execution. Offering features like data-driven testing, cross-browser compatibility, and seamless integration with popular tools, Katalon Studio empowers testers to achieve efficient and comprehensive end-to-end test automation. Whether someone is a beginner or an experienced tester, Katalon Studio provides a versatile platform for accelerating testing processes.

Framework:

Katalon Studio supports a keyword-driven framework that enables testers to create automated tests using a modular, reusable, and easily maintainable approach. It integrates seamlessly with data-driven testing, behavior-driven development (BDD), and supports both web and mobile application testing.

Languages:

automation capabilities within Katalon Studio.

How To Install Katalon Studio

Visit the Official Website:

- Go to the official Katalon Studio website at <https://www.katalon.com/>.

Navigate to Sign Up:

- Signup with Gmail or other credential

Navigate to Downloads:

- Look for the "Downloads" section on the website.

Choose the Edition:

Katalon Studio has two editions: Katalon Studio (Free) and Katalon Studio Enterprise (Paid).

- Select the edition that suits your requirements.

The screenshot shows the Katalon Studio website's navigation bar with links for Overview, Get started, and Release notes. Below this, there are two main sections: 'Katalon Studio' (green background) and 'Katalon Runtime Engine' (light gray background). Both sections show download links for Windows 64-bit (Ver. 9.3.1) and provide a download button. A banner at the bottom encourages managing test projects via TestOps.

Download the Installer:

- Click on the download link for the chosen edition.
- Depending on your operating system, the download may be a zip file or an installer executable.

Install Katalon Studio:

- Run the installer executable.
- Follow the on-screen instructions to complete the installation.

Data-Driven Approach

Data-driven testing is repeating a set of actions using various input values from a data source. This helps ensure that our automated tests work well and behave correctly, especially when faced with all sorts of different inputs. Implementing a data-driven approach in Katalon Studio involves several key steps. Below are the general steps to follow:

- Identify the data points needed for each test case.

Prepare Test Data Sources:

- Create or collect the test data in external sources like Excel, CSV, or databases.
- Ensure that the data sources are organized, and each set of data corresponds to a specific test case.

testcase	username	password	firstname	lastname	postalcode
1	standard_user	secret_sauce	salman	dhrubo	1234
2	standard_user	secret_sauce	wasif	zaman	1235
3	standard_user	secret_sauce	akib	siddiq	1236
4	standard_user	secret_sauce	ridwan	hasan	1237
5	standard_user	secret_sauce	tanjim	noor	1238

Connect Test Data to Test Cases:

- In Katalon Studio, open the test case for which you want to use data-driven testing.
- Identify the input fields or variables that need to be populated with external data.

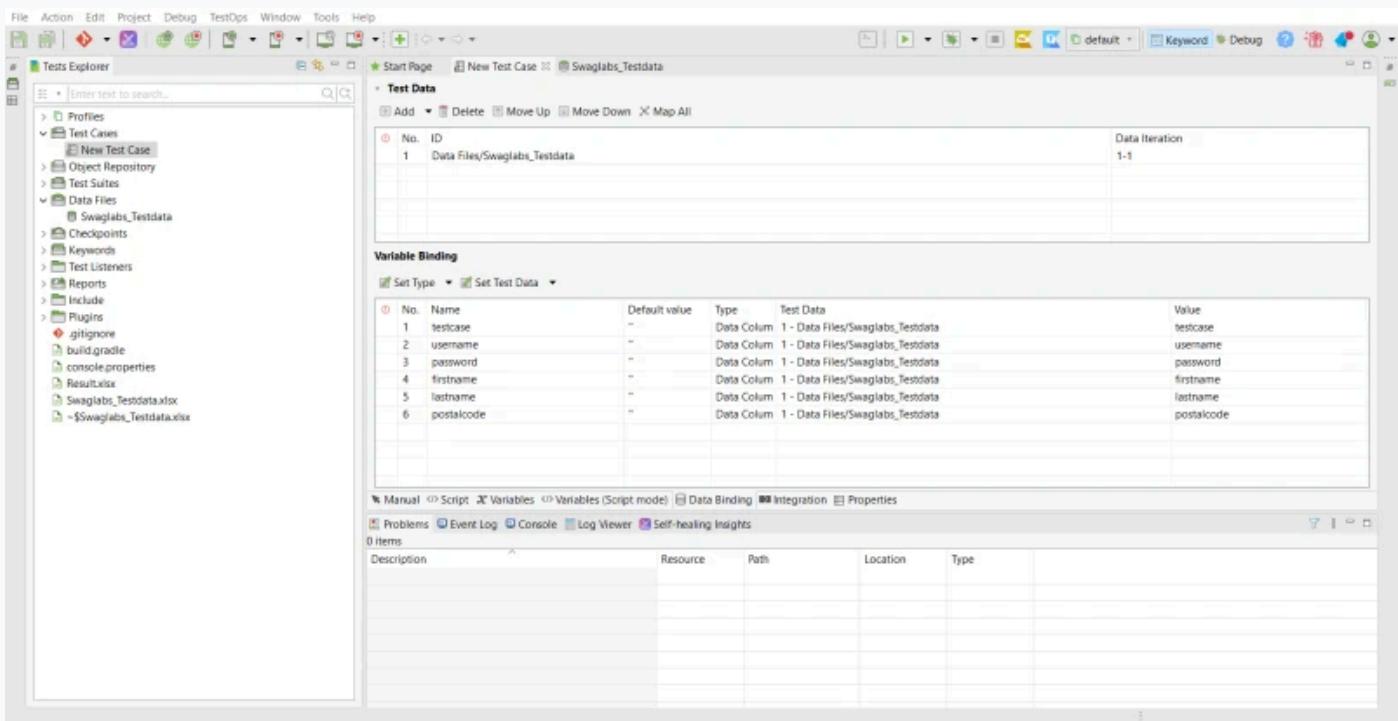
No.	Name	Type	Default value	Description	Masked
1	testcase	String	--		<input type="checkbox"/>
2	username	String	--		<input type="checkbox"/>
3	password	String	--		<input type="checkbox"/>
4	firstname	String	--		<input type="checkbox"/>
5	lastname	String	--		<input type="checkbox"/>
6	postalcode	String	--		<input type="checkbox"/>

Utilize Data Binding:

external sources.

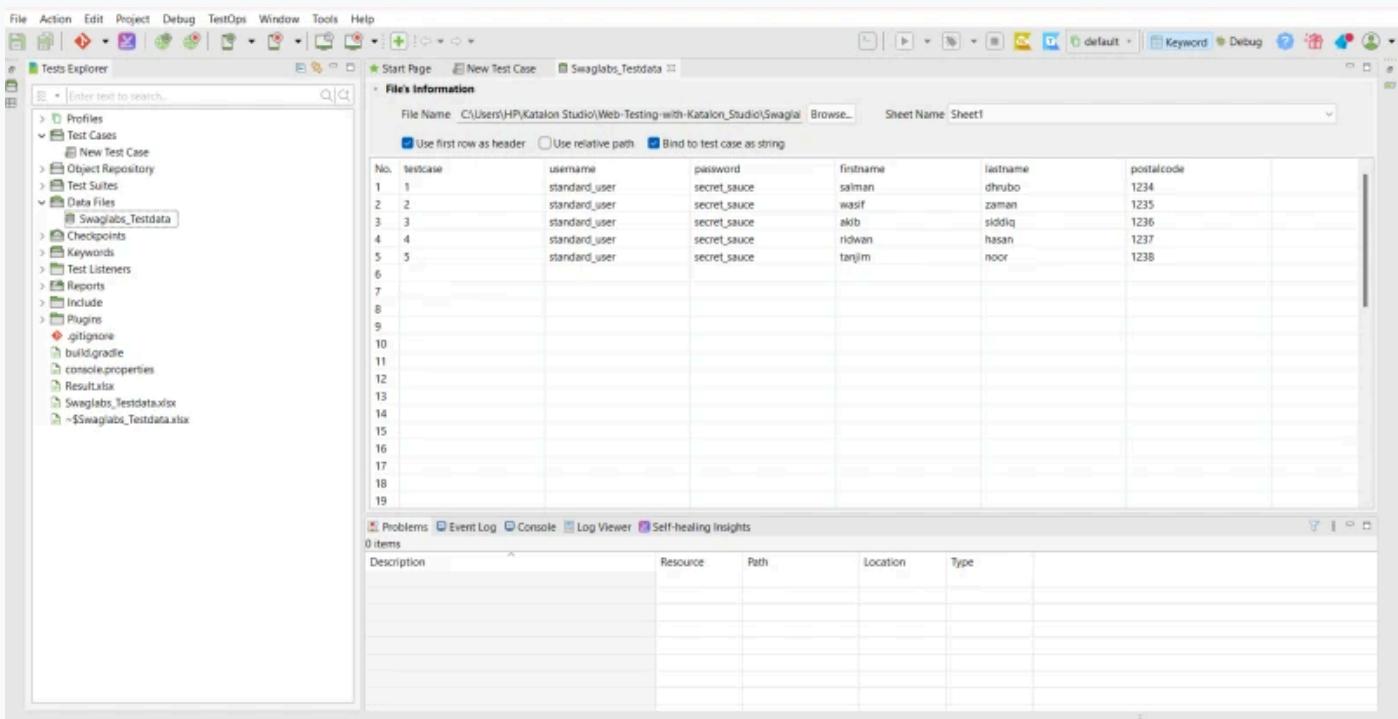
Choose Data Binding Type:

- Katalon Studio supports various data binding types, including Test Data, Data File, or Custom Keyword.
- Choose the appropriate type based on your data source.



Configure Data Binding:

- Configure the data binding settings, specifying the data source location, sheet, or file.
- Map the columns from the data source to the corresponding parameters or variables in your test case.



Review Test Results:

- Analyze the test results to ensure that each iteration of the test case produced the expected outcomes.
- Address any issues or failures encountered during the data-driven testing process.

Iterate and Maintain:

- As your application evolves, update your test data and test cases accordingly.
- Periodically review and maintain your data-driven approach to ensure its effectiveness.

By following these steps, someone can efficiently implement a data-driven testing approach in Katalon Studio, allowing to test various scenarios with different sets of input data without duplicating test cases.

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