



Software Testing Day 17 – Data Driven and Hybrid frameworks

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Agenda

• Data Driven Framework

• Hybrid Framework

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Notes

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Taskbar Icons: File Explorer, Microsoft Edge, WhatsApp, Telegram, VS Code, etc.

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- Ease of Maintenance

- No Advanced Programming Skills Required

- Ease of Running Test Scripts with Multiple Data Sets

- Offers Benefits of Multiple Frameworks

Types of automaton frameworks

Test Automation Frameworks:

1. Module Based Testing Framework
2. Library Architecture Testing Framework
3. Data Driven Testing Framework
4. Keyword Driven Testing Framework
5. Hybrid Testing Framework
6. Behaviour Driven Development Framework

Notes



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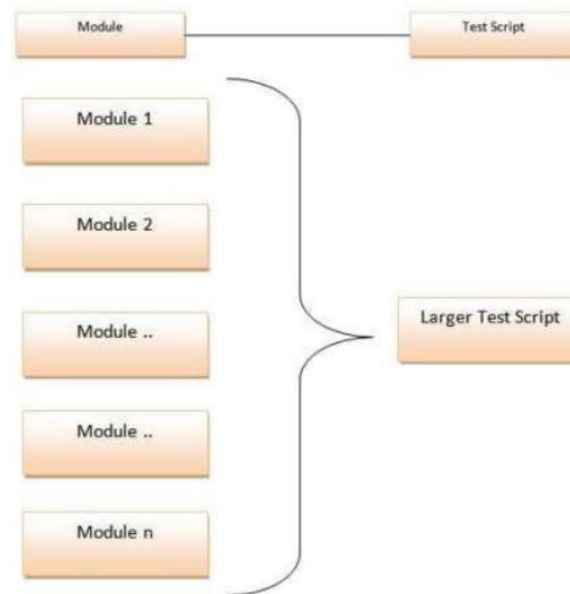
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Module based Framework



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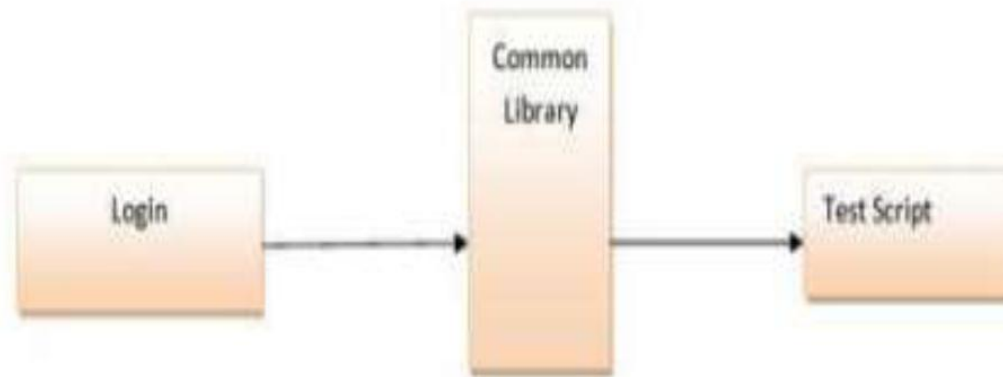
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Library based Framework



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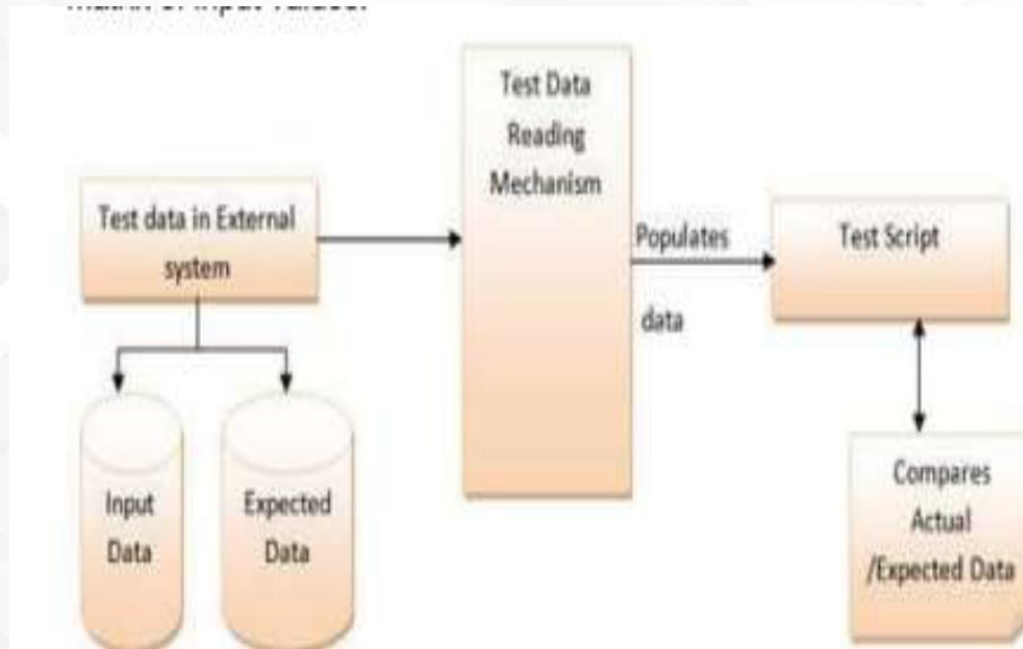
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Data Driven Framework



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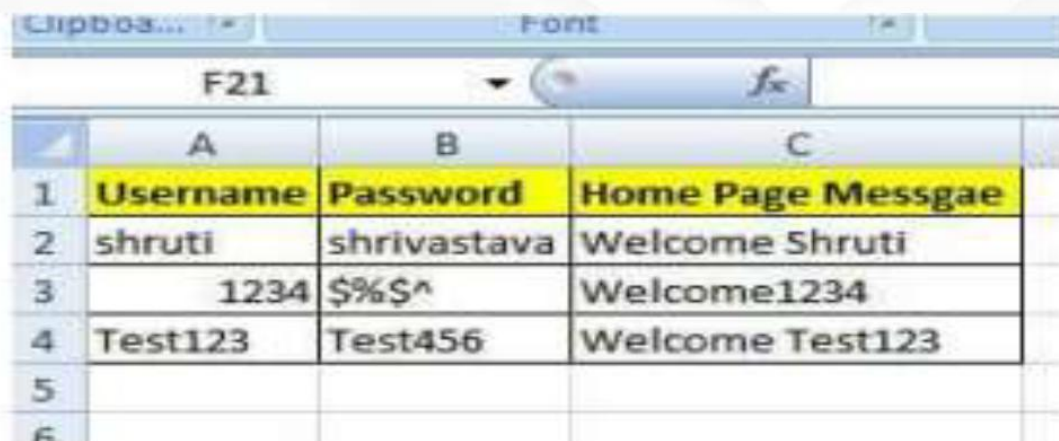
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Data Driven Framework



The screenshot shows a spreadsheet application window with a menu bar (Clipboard, Font) and a toolbar (F21, undo, redo, formula). The data table has 6 rows and 3 columns (A, B, C). The first row is highlighted in yellow and contains the headers: Username, Password, and Home Page Messgae. The subsequent rows contain test data for a login form.

	A	B	C
1	Username	Password	Home Page Messgae
2	shruti	shrivastava	Welcome Shruti
3	1234	\$%\$^	Welcome1234
4	Test123	Test456	Welcome Test123
5			
6			

Notes



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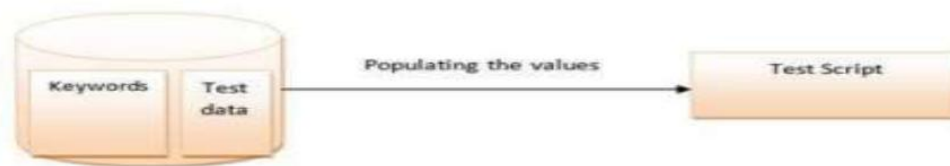
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Keyword Driven Framework



Example Test case of Keyword Driven Test Framework

STEP NO	DESCRIPTION	KEYWORD	LOCATOR/DATA
1	Login to application Click on	login	//*[@id="homepage"]

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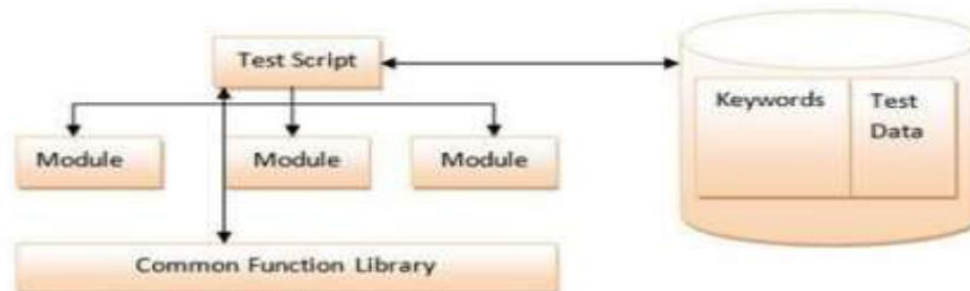


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Hybrid Driven Framework



Example of Hybrid Framework

Test sheet would contain both the keywords and the Data.

Step	Description	Keyword	Locator	Data
Step1	Navigate to login page	navigate		
Step2	Enter User Name	input	//*[@id='username']	userA
Step3	Enter Password	input	//*[@id='password']	password
Step4	Verify Home page	verifyUser	//*[@id='User']	
Step5	Verify User link	verifyLink	link='UserLink'	userA
Step6	Logout from the application	clickLink	//*[@id='logout']	

Notes



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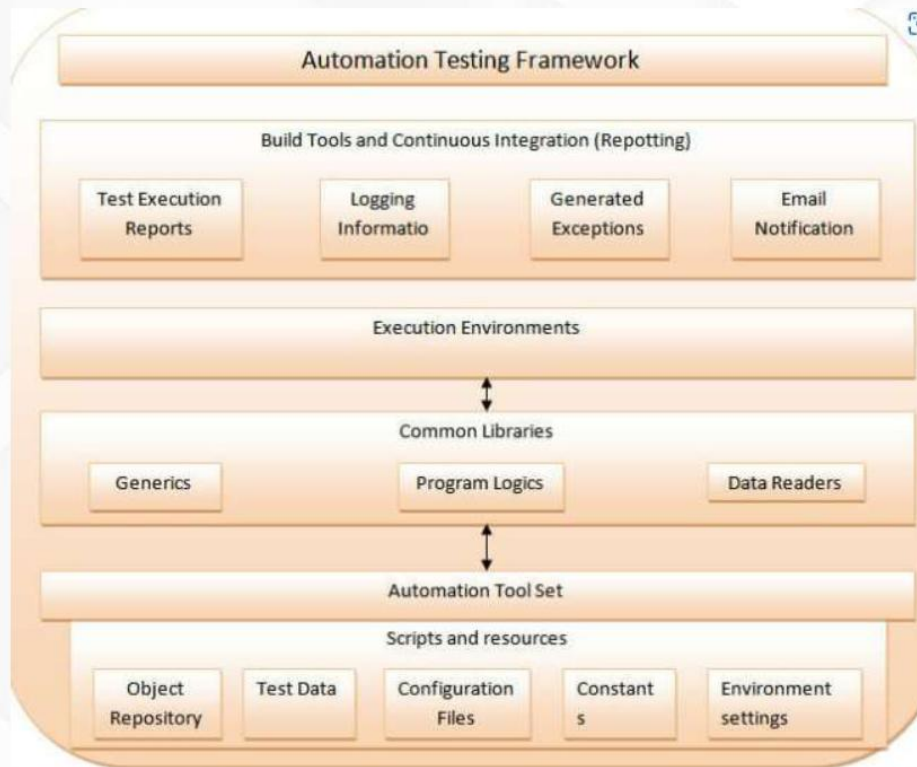
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BDD Driven Framework



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