



Katalon Studio For Automated Testing

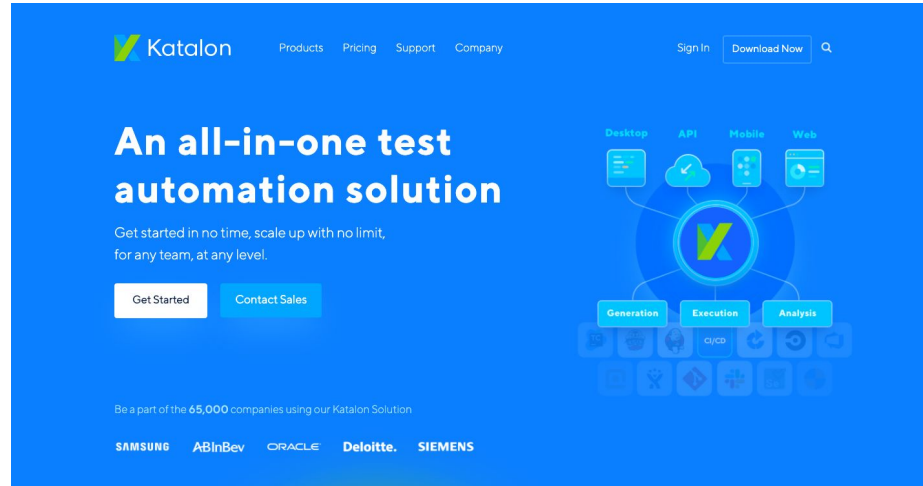
Sesi 2



Introduction⁺ of Katalon Studio

Introduction of Katalon Studio - Sesi 2

Katalon Studio



https://www.katalon.com/?pk_abe=AB_testing_Homepage_08_2020&pk_abv=layout1

Pada sesi 1 akhir diminta untuk download katalon, silahkan instal katalon pada device baik itu CPU/Laptop.

Sambil menunggu proses install, kita akan berkenalan sebentar dengan apa itu katalon hingga cara kerja katalon.



Software dengan basis Automated Testing untuk menguji Kualitas berbagai platform seperti **Web Application**, **API**, **Mobile Application**, dan juga **Desktop**.



Introduction of Katalon Studio - Sesi 2

Mengapa Katalon Studio ?



<https://docs.katalon.com/katalon-studio/docs/overview.html>

1. Hassle-free deployment : Semua komponen yang kita perlukan di-bundling dalam 1 package deployment.
2. Quick & Easy Set-up : Menyediakan instalasi yang sederhana dan tentunya mudah dalam set-up environment.
3. Better & Faster Results : Membantu kita dalam membuat dan menjalankan automated-test-script mulai dari membuat test-case, eksekusi dan menghasilkan tampilan laporan.
4. Flexible modes : Dengan Fitur Recording dan Keywords untuk build sebuah Automation Test akan memudahkan QA yang juga Sebelumnya menguasai code/syntax dalam menggunakan IDE Katalon untuk automation advanced scripts.
5. Ease of Use : Sangat Mudah untuk digunakan sebagai QA Pemula bahkan yang belum bisa menguasai code/syntax sepenuhnya.
6. Multi-OS App : Dapat dijalankan baik di Windows dan juga iOS.



INITIATE

- Integral project templates: by offering built-in templates for organizing test cases, object repository and keywords, Katalon Studio makes testing easier for testers than ever before.
- Multiple capabilities: Fully supports Web, Android, iOS and API testing on all operating systems.
- Hassle-free tool integration: Easy to integrate with Jenkins, GIT and JIRA with native plug-ins.

CREATE

- Automatic test generation: Records actions and generates scripts automatically using built-in keywords.
- Hi-end scripting: Enables building advanced test scripts or customizable keywords with ease and efficiency.
- Smart object capturing: An advanced recorder detects object properties effectively to maximize recognition.

OPERATE

- Test execution made powerful: Runs test cases or test suites using multiple configurations and data sets.
- Versatility in execution: Provides CI integration console with various parameters for remote execution. Runs tests on multiple browsers and OS's locally or with Sauce Labs and BrowserStack.
- Flexible failure handling and auto re-execution: Includes run-time rules to automatically handle complex execution flows.

REPORT

- Reports available in several formats: With advanced logging, debug data and screenshots.
- Bespoke execution reports: Integrated with your notification workflow.
- Enhanced Selenium and Appium logs: With improved analysis features to improve automation strategy.

MAINTAIN

- Intelligent test object maintenance: Automatically updates all associated test cases and suites when objects are changed.
- Efficient test organization: Allows easy management and maintenance of tests, data and keywords.



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Katalon Studio

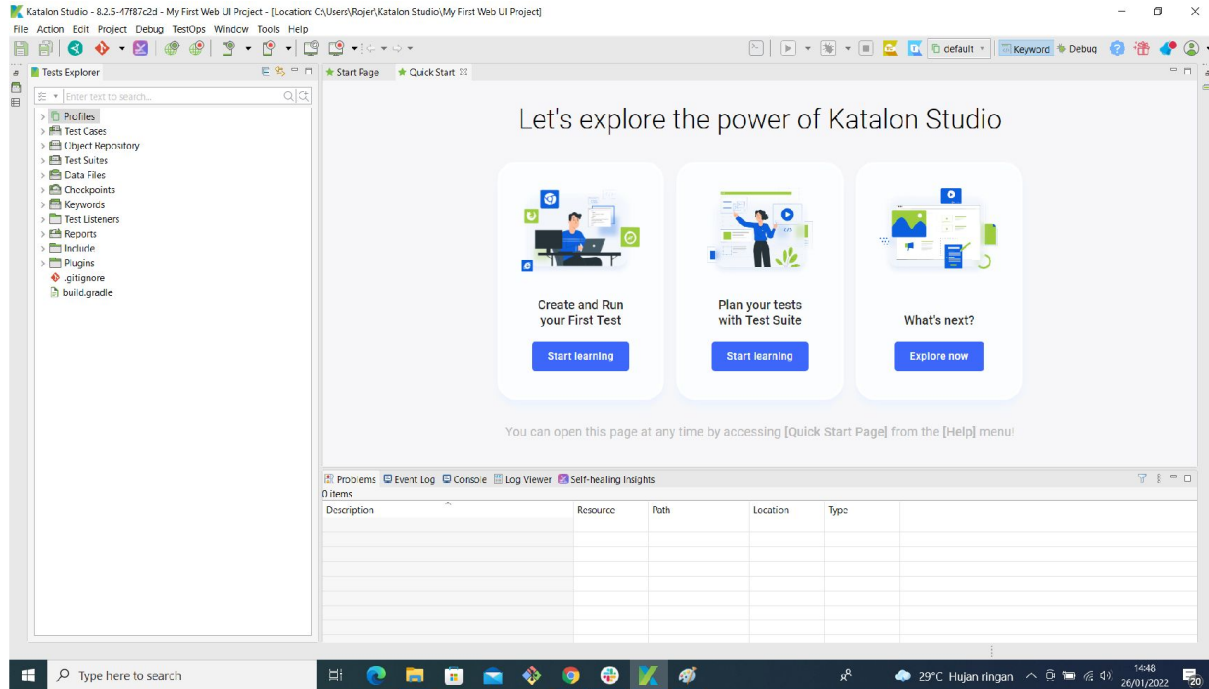
1. Download Katalon Studio di <https://www.katalon.com>
2. Ekstrak File lalu jalankan Katalon.exe

config	3/11/2019 9:51 AM	File folder	
configuration	3/24/2019 7:45 PM	File folder	
features	3/1/2019 1:50 PM	File folder	
jre	3/1/2019 1:50 PM	File folder	
p2	3/1/2019 1:50 PM	File folder	
plugins	3/1/2019 1:50 PM	File folder	
artifacts	3/1/2019 1:50 PM	XML Document	76 KB
eclipsesec	3/1/2019 1:49 PM	Application	18 KB
katalon	3/1/2019 1:49 PM	Application	306 KB
katalon	3/1/2019 1:50 PM	Configuration sett...	1 KB

Introduction of Katalon Studio - Sesi 2

Katalon Studio

3. Tampilan Awal muka aplikasi



Introduction of Katalon Studio - Sesi 2

Quick View GUI Katalon Studio

The image shows the Katalon Studio interface with several components highlighted by blue callout boxes:

- Quick Access Toolbar:** Most used features such as creating new Test Cases, Object Spy, Run Execution or Debugging for quick access.
- Test Explorer:** Test artifacts organization, objects can be filtered using search function.
- Keyword Browser:** Browse all keywords.
- Global Variables:** Browse and edit the list of all available global variables.
- Console:** System Log of the run time activities for test scripts execution.
- Job Progress:** Progress of test case/test suite execution.
- Problem:** Errors and warning messages displayed during setting up a project or modifying test artifacts.
- Log Viewer:** Real time report/ log of the test execution.

The screenshot also shows the main menu (File, Edit, Project, Debug, Window, Help) and the toolbar with icons for Save, Save All, New, Spy Web, Spy Mobile, Record, Run, Debug, Stop, Build CMD, and Git. The Tests Explorer panel on the left lists Test Cases, Object Repository, Test Suites, Data Files, Checkpoints, Keywords, and Reports. The main editor area displays a Keyword script.

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Quick View GUI Katalon Studio - Toolbar

Main Toolbar akan berisi action yang Paling Banyak akan kita gunakan, seperti membuat test resources hingga menjalankan automation test.



Save the current opened test artifact.



Save all opened test artifacts.



Create new test artifacts. You can select these options by selecting from dropdown list:

- | | |
|------------------------|----------------------|
| •Folder | •Web Service Request |
| •Test Case | •Test Data |
| •Test Suite | •Checkpoint |
| •Test Suite Collection | •Package |
| •Test Object | •Keyword |



HACKTIV8



Open **Object Spy** dialog for capturing elements on websites.



Open **Mobile Object Spy** dialog for capturing elements on mobile applications.



Open **Record** dialog for recording WebUI test cases.



Open **Mobile Recorder** dialog for recording Mobile test cases.



Run the current open test case. You can select these options by selecting from dropdown list:

- Chrome
- Firefox
- IE
- Safari
- Edge
- Remote
- Headless
- Android
- iOS (on macOS)
- Custom



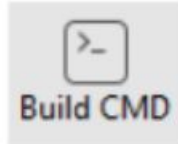
Debug the current open test case. You can select these options by selecting from dropdownlist:

- Chrome
- Firefox
- IE
- Safari
- Edge
- Remote
- Headless
- Android
- iOS (on macOS)
- Custom

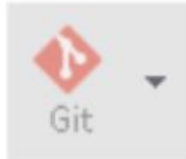




Stop the current execution



Open **Command Builder** for generating commands for console execution



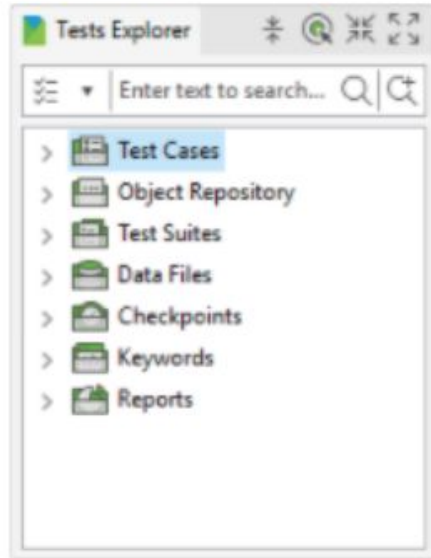
Command for Git activities. You can select these options by selecting from dropdownlist (after [enabling](#)

[Git](#)):

- | | |
|------------------|---------|
| •Clone Project | •Commit |
| •Share Project | •Push |
| •Show History | •Pull |
| •Manage Branches | •Fetch |



HACKTIV8



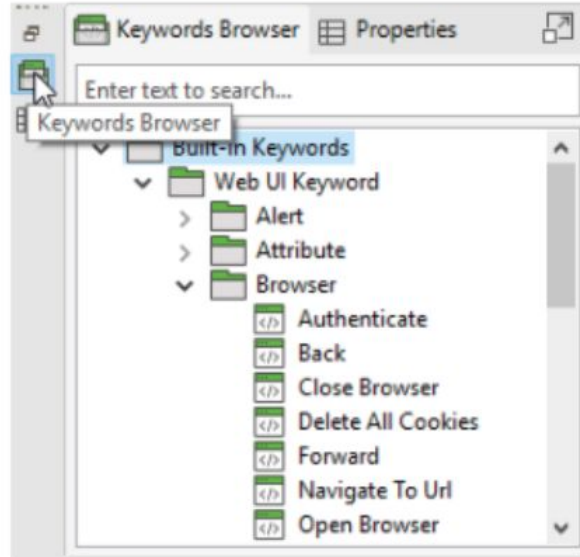
Tampilan test explorer memungkinkan Anda untuk menelusuri struktur proyek Anda dan mengakses semua artefak test dengan cepat.

Dengan menggunakan menu konteks pada tampilan, Anda dapat membuat artefak baru, mengatur item tampilan atau menarik dan melepasnya ke tampilan editor tertentu jika diperlukan.

Group	Description
Test Cases	List all test cases within current project
Object Repository	List all test objects of the current project
Test Suites	List all test suites and test suite collections of the current project
Data Files	List all test data of the current project
Checkpoints	List all checkpoints of the current project
Keywords	List all custom keywords of the current project
Reports	List all generated reports of the current project

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Keyword Browser View



Tampilan **Keyword Browsers** menampilkan semua keywords yang tersedia yang didukung oleh Katalon Studio. Kita bisa menggunakannya cukup dengan drag and drop keyword pada editor Test Case saat membuat skrip. (in details seperti apa akan kita bahas pada sesi selanjutnya)



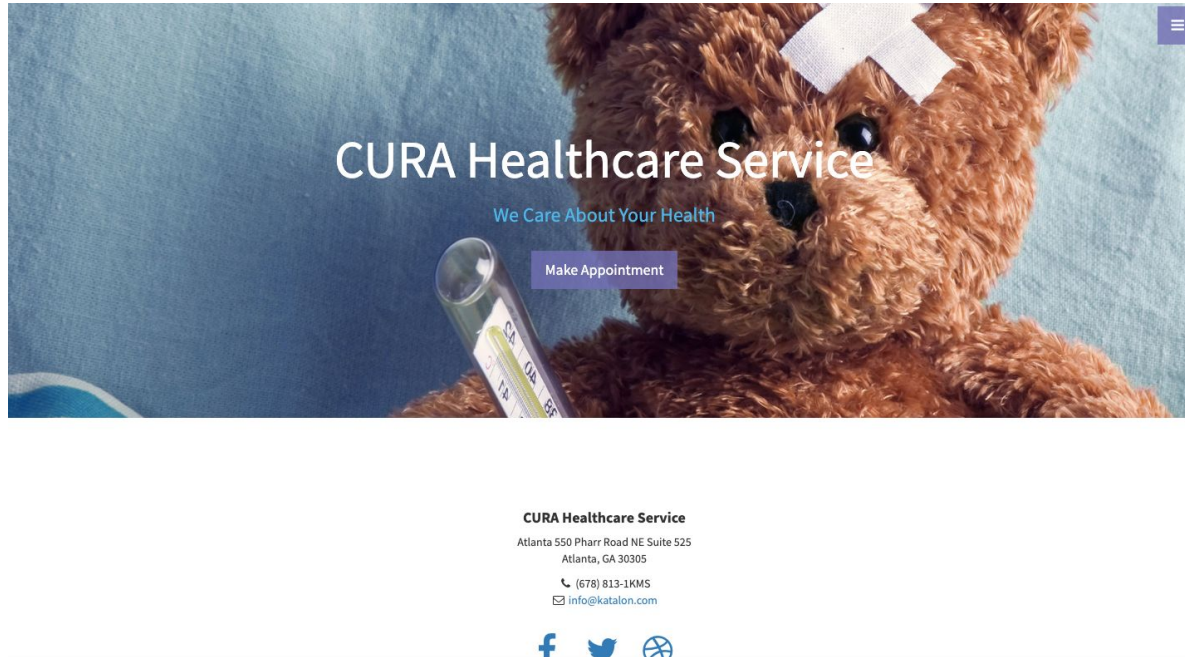
Explorations⁺

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Explorations

Nah setelah kita mempelajari apa itu Katalon, Download sampai Melihat Graphical User Interface beserta penjelasan fitur hingga toolbar serta test overview nya,

Pada sesi kali ini kita akan mencoba sederhana bagaimana melakukan test/pengujian sederhana dengan Katalon untuk Web UI : <http://demoaut.com>



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Requirement Test

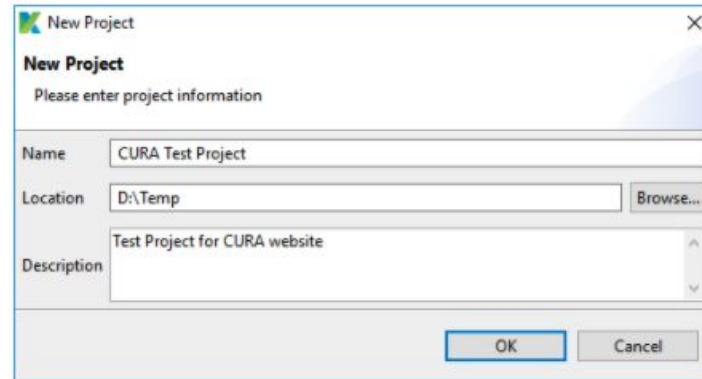
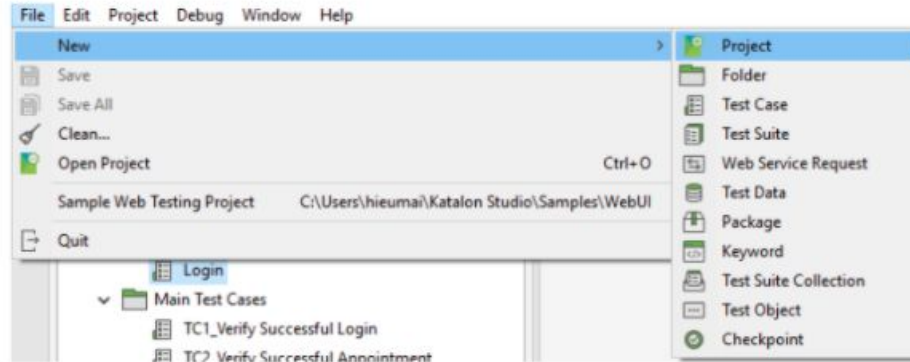
Tentu sebelum melakukan test kita harus punya test scenario yang biasanya kita sudah buat jauh sebelum program jadi.

Contoh Test Scenario yang akan kita uji adalah Login

Created By	Nama Anda		Reviewed By	Nama Review			
QA Tester's Log	Review comments from Bill incorporate in version 2.1		Last Tested	16-Jan-2022			
Tester's Name	Mark		Test Case Result	Passed	Failed	Not executed	
				1	1	0	
Test Case ID	Functional Test	Test Scenario	Step	Test Data	Expected	Actual	Passed / Failed / Not executed
BU_001	Login	Verify login when entering valid userid and password	1. Open Browser		Browser should open	Browser opened	
			2. Navigate to http://demoaut.katalon.com		Site should open	Site opened	
			3. Enter Userid & Password	Userid = John Doe Pass = ThisIsNotAPassword			
			4. Click Submit		Cutomer is logged in	Customer is logged in	Passed
BU_002	Login	Verify login when entering invalid userid but valid password	1. Open Browser		Browser should open	Browser opened	
			2. Navigate to http://demoaut.katalon.com		Site should open	Site opened	
			3. Enter Userid & Password	Userid = John Doe Pass = thisisnotapassword			
			4. Click Submit		Cutomer is failed to log in	Cutomer is failed to log in	Failed

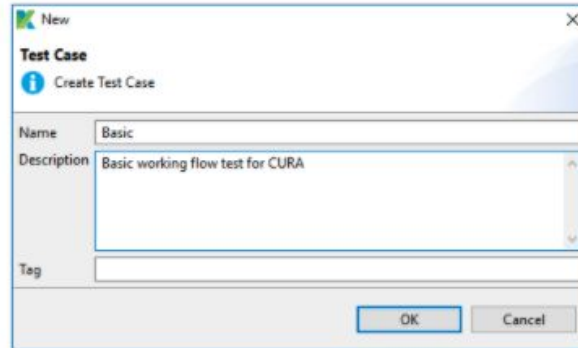
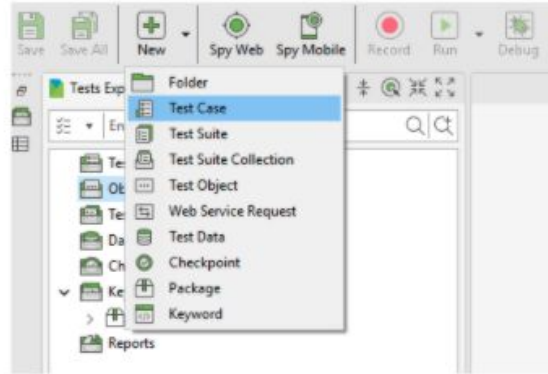
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Step 1. Create an Automation Testing Projects



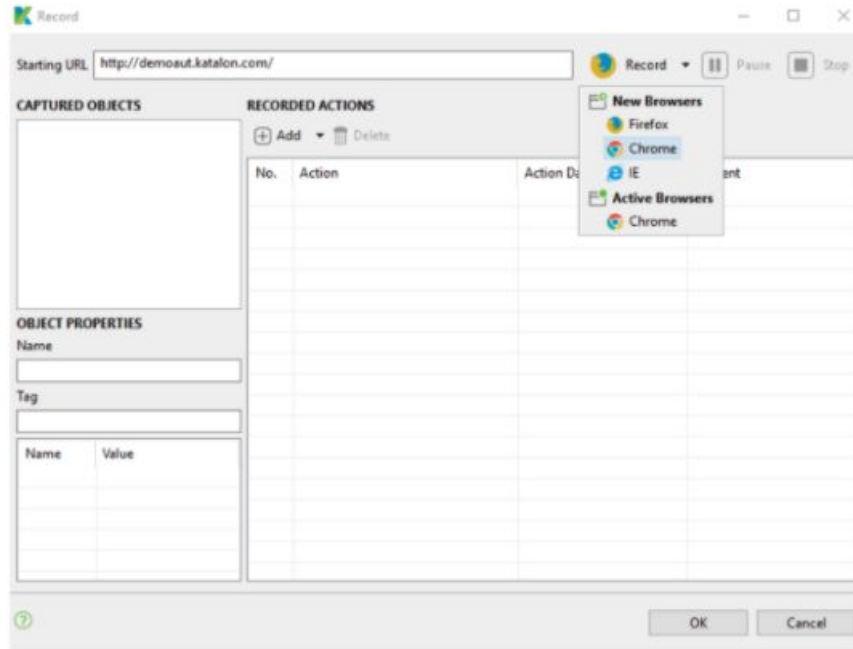
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Step 2. Create a Test Case



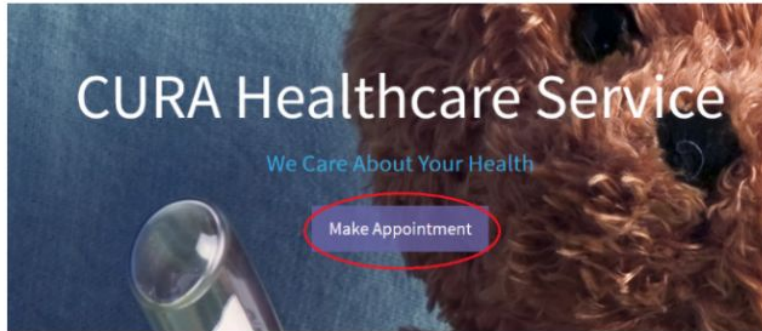
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Step 3. Composing automation Test Case



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Step 4. Record Process activated and do Testing with your scenario



Login

Please login to make appointment.

Username

Password

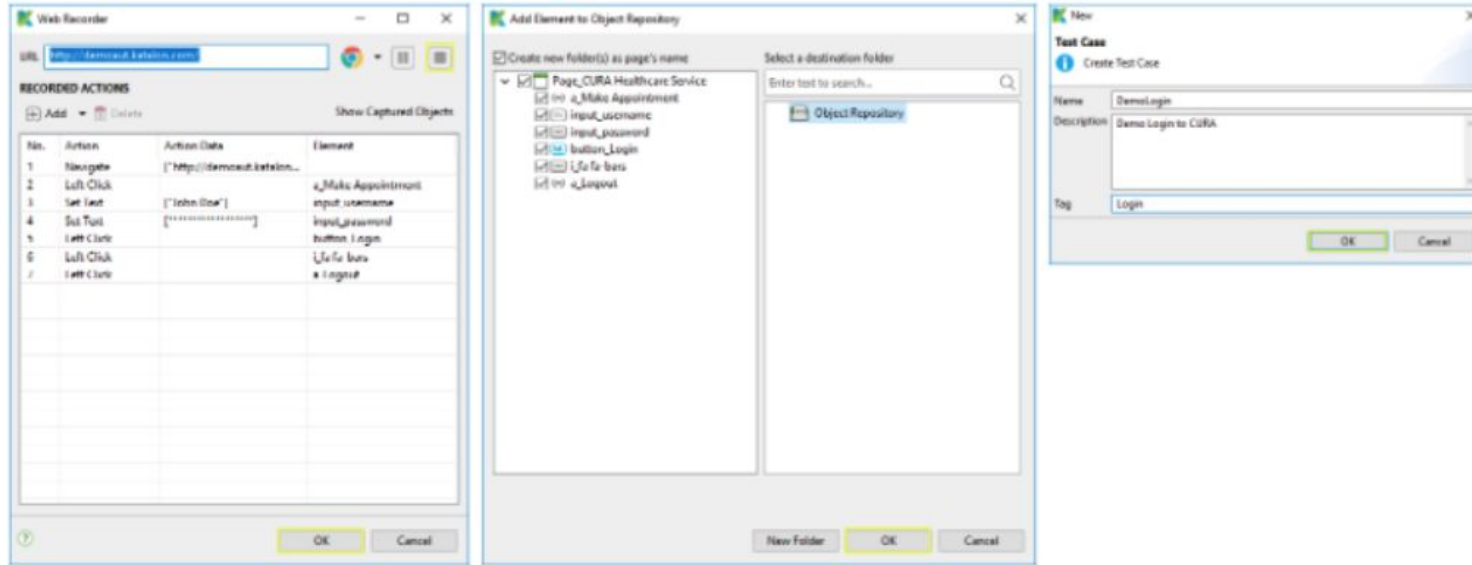
Test Case ID	Functional Test	Test Scenario	Step	Test Data	Expected	Actual	Passed / Failed / Not executed
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			3. Enter UserID & Password	UserId = John Doe Pass = ThisIsNotAPassword			
			4. Click Submit		Cutomer is logged in	Customer is logged in	Passed
BU_002	Login	Verify login when entering invalid userid but valid password	1. Open Browser		Browser should open	Browser opened	
			2. Navigate to http://demoaut.katalon.com		Site should open	Site opened	
			3. Enter UserID & Password	UserId = John Doe Pass = thisisnotapassword			
			4. Click Submit		Cutomer is failed to log in	Customer is failed to log in	Failed



HACKTIV8

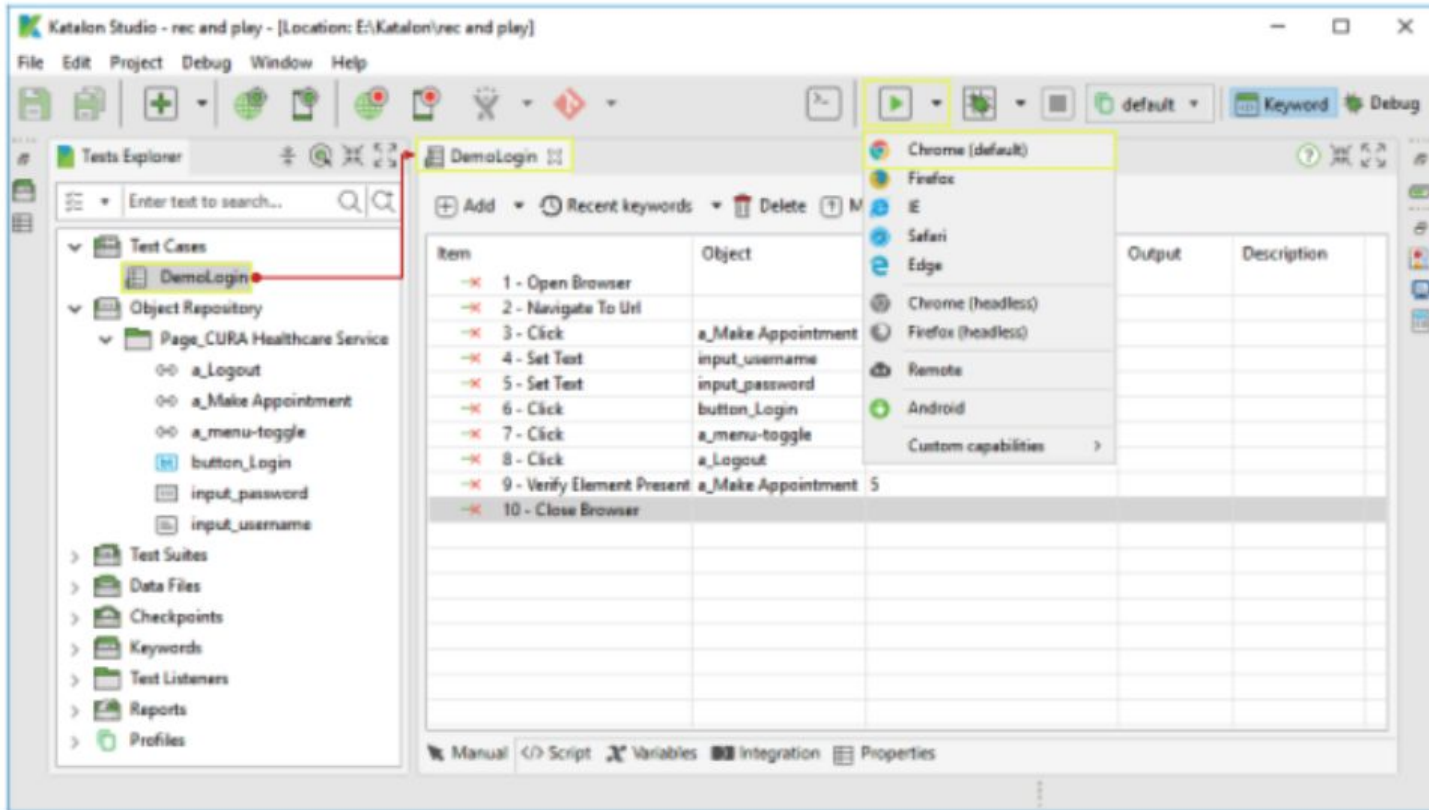
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Step 5. Stop Recording & Save



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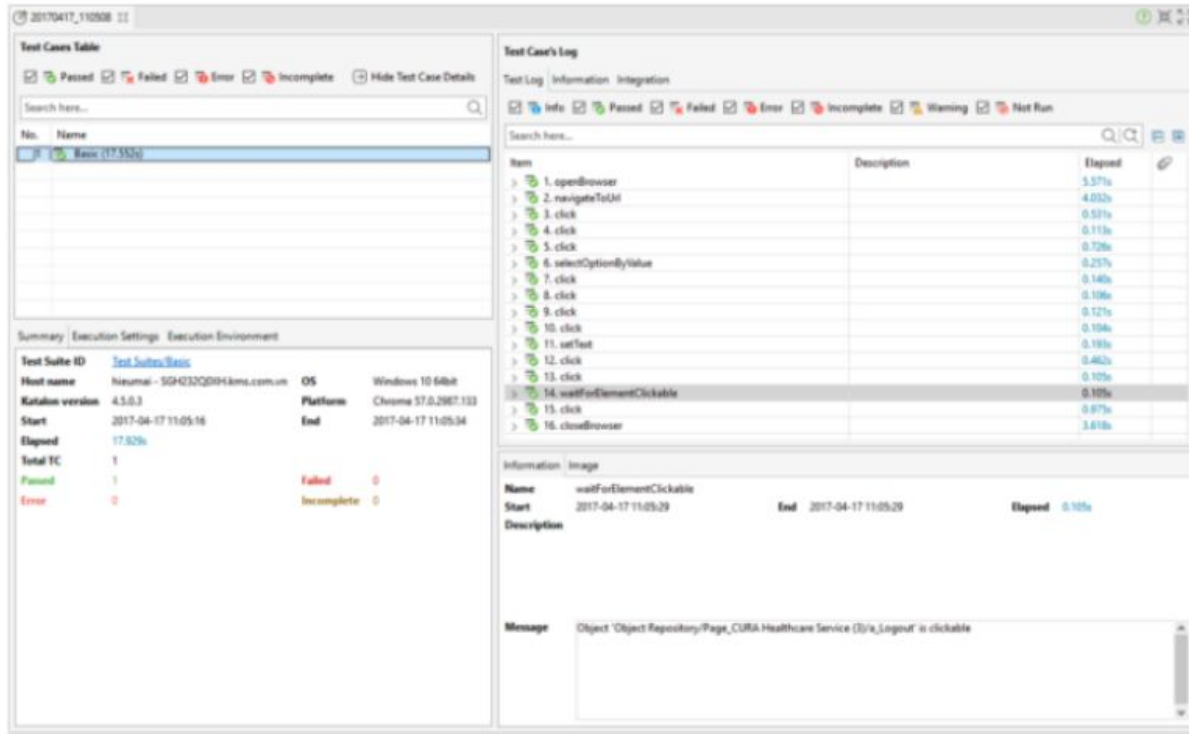
Step 6. Do Look your testing with Playback Features



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Step7. Generate Report

Detail Report pengujian ditunjukkan seperti di bawah ini (dengan "Show Test Case Details" dipilih)



The screenshot displays the Katalon Studio interface showing the details of a test case execution. The main window is titled "20170417_110508 11".

Test Cases Table: A table with columns "No." and "Name". It lists one test case: "Basic (17.55s)".

Summary: A section providing overview statistics.

Test Suite ID	Test Suite Name
Test Suite/Basic	

Host name: Neumal - SGH232QD04kms.com.my OS: Windows 10 64bit
Katalon version: 4.5.0.3 Platform: Chrome 57.0.2967.133
Start: 2017-04-17 11:05:16 End: 2017-04-17 11:05:34
Elapsed: 17.529s
Total TC: 1
Passed: 1 Failed: 0
Error: 0 Incomplete: 0

Test Case's Log: A section showing the execution log for the test case.

Test Log: Information Integration

Search here...

Item	Description	Elapsed
1. openBrowser		5.571s
2. navigateToUrl		4.032s
3. click		0.531s
4. click		0.113s
5. click		0.728s
6. selectOptionByValue		0.257s
7. click		0.140s
8. click		0.108s
9. click		0.121s
10. click		0.104s
11. setTest		0.193s
12. click		0.462s
13. click		0.105s
14. waitForElementClickable		0.105s
15. click		0.877s
16. closeBrowser		3.818s

Information - Image: A section showing details for the selected step (14. waitForElementClickable).

Name: waitForElementClickable
Start: 2017-04-17 11:05:29 End: 2017-04-17 11:05:29 Elapsed: 0.105s
Description:

Message: Object 'Object Repository/Page_CURA Healthcare Service (3)/a_Login' is clickable