

# 1. Katalon Studio Record Mode

## Overview:

The Record Mode allows testers to automatically capture user actions on a web or mobile application and generate test scripts.

## Steps to Use Record Mode:

1. **Open Katalon Studio** and click on **"Record Web"** from the toolbar.
2. Enter the **URL of the web application** and select the browser (Chrome, Firefox, Edge).
3. Click on **"Start"**, and Katalon Studio will launch the browser.
4. Perform actions (click, type, navigate) on the website, and Katalon will **record** them.
5. Once done, click **"Stop Recording"** and save the test case.
6. You can **edit** recorded steps in **Manual Mode** or **Script Mode**.

## Use Case:

- Best for beginners who don't have coding knowledge.
  - Quick test creation without writing scripts.
- 

# 2. Katalon Studio Manual Mode

## Overview:

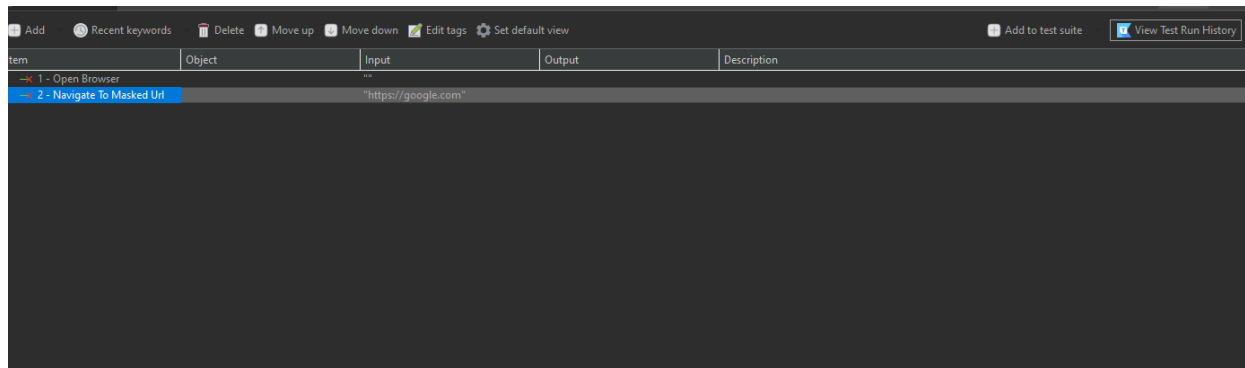
Manual Mode allows users to create test cases step by step by adding test objects, actions, and validations without writing code.

## Steps to Use Manual Mode:

1. Open Katalon Studio and **create a new Test Case**.
2. Click the **"Manual" tab** (next to the "Script" tab).
3. Use the **Test Case Editor** to:
  - Add **Test Steps** (e.g., Click, Input, Verify).
  - Select an **Object** from the Object Repository.
  - Choose **Keywords** (e.g., Open Browser, Set Text).
4. Save and execute the test case.

## Use Case:

- Ideal for testers who prefer a **scriptless** test case design.
- Allows easy editing of test cases without coding.



### 3. Katalon Studio Keywords Mode

#### Overview:

Katalon Studio provides built-in keywords that act as pre-defined actions (similar to Selenium commands).

#### Types of Keywords in Katalon:

- **Web UI Keywords:** `WebUI.click()`, `WebUI.verifyElementPresent()`, `WebUI.setText()`, etc.
- **Mobile Keywords:** `Mobile.tap()`, `Mobile.swipe()`, `Mobile.setText()`, etc.
- **Database Keywords:** `Database.connect()`, `Database.executeQuery()`.
- **API Testing Keywords:** `WS.sendRequest()`, `WS.verifyResponseStatusCode()`.
- **Custom Keywords:** Users can create their own **Groovy-based** keywords.

#### Steps to Use Keywords Mode:

1. In **Manual Mode**, click **Add Step** → Choose **Keyword**.
2. Select a built-in keyword like "**Open Browser**" or "**Click Element**".
3. Assign a **Test Object** (e.g., a button or input field).
4. Save and execute the test case.

#### Use Case:

- Great for testers who want **reusable** functions.
- Reduces coding effort by using pre-built commands.

---

## 4. Katalon Studio Script Mode

### Overview:

Script Mode allows advanced testers to write test scripts in **Groovy (Java-based scripting language)** using Selenium WebDriver and Katalon APIs.

### Steps to Use Script Mode:

1. Open Katalon Studio and create a new Test Case.
2. Click the **"Script" tab** (next to "Manual").
3. Write custom automation scripts using Groovy.

### Example Script:

```
groovy
CopyEdit
import com.kms.katalon.core.webui.keyword.WebUiBuiltInKeywords as
WebUI

WebUI.openBrowser('https://example.com')
WebUI.setText(findTestObject('Page_Login/txt_Username'), 'admin')
WebUI.setEncryptedText(findTestObject('Page_Login/txt_Password'),
'encrypted_password')
WebUI.click(findTestObject('Page_Login/btn_Login'))
WebUI.verifyElementPresent(findTestObject('Page_Home/lbl_Welcome'),
10)
WebUI.closeBrowser()
```

### Use Case:

- Suitable for experienced testers who prefer **flexibility**.
- Allows integration of **custom logic** and advanced test automation techniques.

---

## Comparison of Automation Modes in Katalon Studio

Mode	Suitable for	Features
------	--------------	----------

<b>Record Mode</b>	Beginners	Auto-generates test scripts from recorded actions
<b>Manual Mode</b>	Testers with no coding experience	Drag-and-drop test steps without writing code
<b>Keywords Mode</b>	Intermediate users	Uses built-in Katalon keywords for test automation
<b>Script Mode</b>	Advanced testers	Uses Groovy for writing customized test scripts