Test Automation Tutorial Katalon Studio
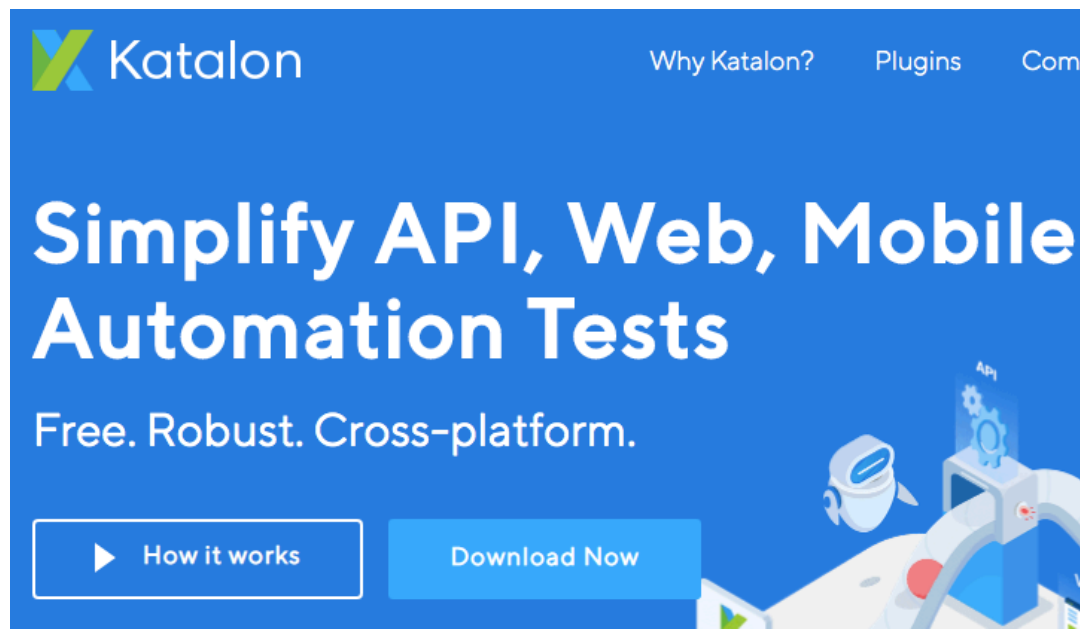
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Topics covered

- Overview of Katalon Studio
- Web-based automation testing
- API test automation

Katalon Studio

- Overview
- Katalon Studio installation and setup
- Key features
- Test project structure
- Katalon Studio versus Selenium and Appium
- Groovy scripting language

Katalon Studio Overview

- A powerful and comprehensive tool for test automation

- A product of Katalon Studio LLC, a subsidiary of KMS Technology

- Developed in VN

- Katalon.com

- > 400K users

Katalon Studio Overview - 2

- **Built on top of Selenium and Apium**
  - It uses Selenium and Appium frameworks
  - Much easier to use than Selenium and Appium
  - Everyone can quickly use the tool

- **Supports Web, Mobile and API test automation**

- **It is a free tool for individual use**
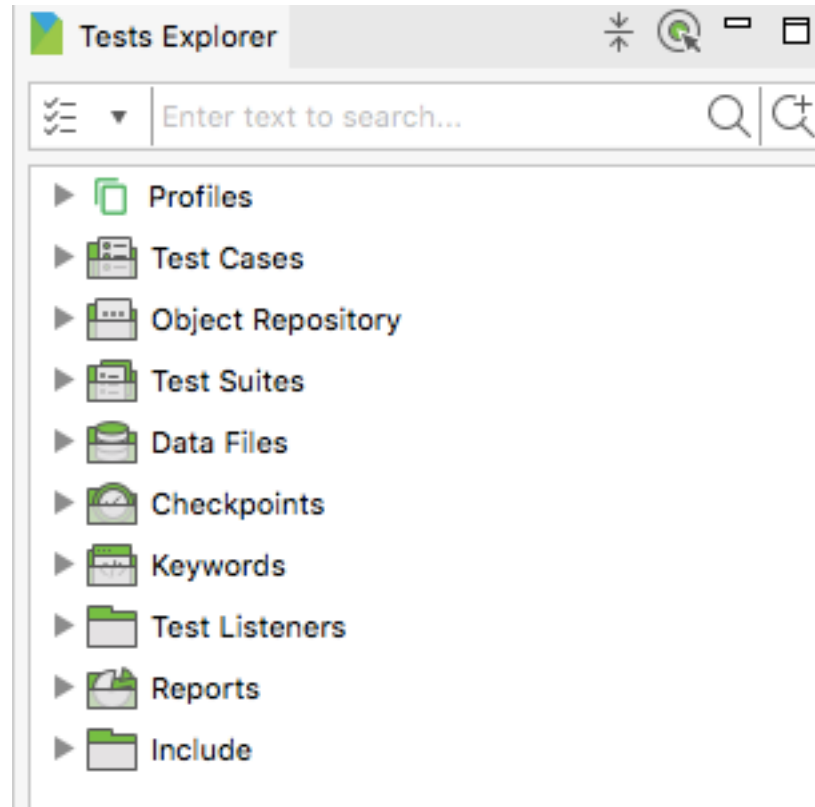 - The company makes money buy selling services and plugins

Installation and setup

- Create an account from katalon.com
- Download
- Activate and run

Key features

- All key features for creating, running, reporting, maintaining tests

- Web, Mobile, and API automation tests

- Record/playback

- Integration with many tools such as Git, Slack, Bitbucket, JIRA

- Analytics

Test Project Structure

Katalon vs. Selenium and Appium

- Katalon is built using Selenium and Appium engines

- Selenium for Web, and Appium for Mobile

- Katalon makes test automation easier

  - Users do not need to build a framework using Selenium or Appium

  - Users do not need to integrate many tools

  - Everyone can get started quickly

- To use Selenium and Appium, users need to have good programming skills

- For more information visit Katalon vs. open-source frameworks

Groovy Scripting Language

- Katalon uses Groovy for its test scripts
- Groovy is a scripting language based on Java
- Syntax is similar to Java
    - But less complex than Java

Web-based Automation Testing

- Configuration for Web testing
- Record and Playback test generation and execution
- Test execution configuration
- Object repository
- Keyword-driven testing
- Linear test scripting
- Data-driven testing
- Built-in statements: binary, control, assertion statements
- Built-in and custom keywords

Create test cases

- https://docs.katalon.com/docs/author/create-test-cases/create-test-case-overview

Record and Playback

- Test case: create an appointment at http://demoaut.katalon.com/

Data-driven Tests

- Data stored in list, csv, Excel files or databases

- Create test cases

- Use variables in test cases

- Create a test suite to bind variables to data columns

- https://docs.katalon.com/docs/author/data-driven-testing/data-driven-testing-with-katalon-studio