

Lesson 07 Demo 04

Automating Test Case Generation Using testRigor

Objective: To automate test case generation and execution process using testRigor for an e-commerce website for ensuring the functionality and user experience meet specified requirements

Tools required: testRigor

Prerequisites: Basic knowledge and understanding of test cases

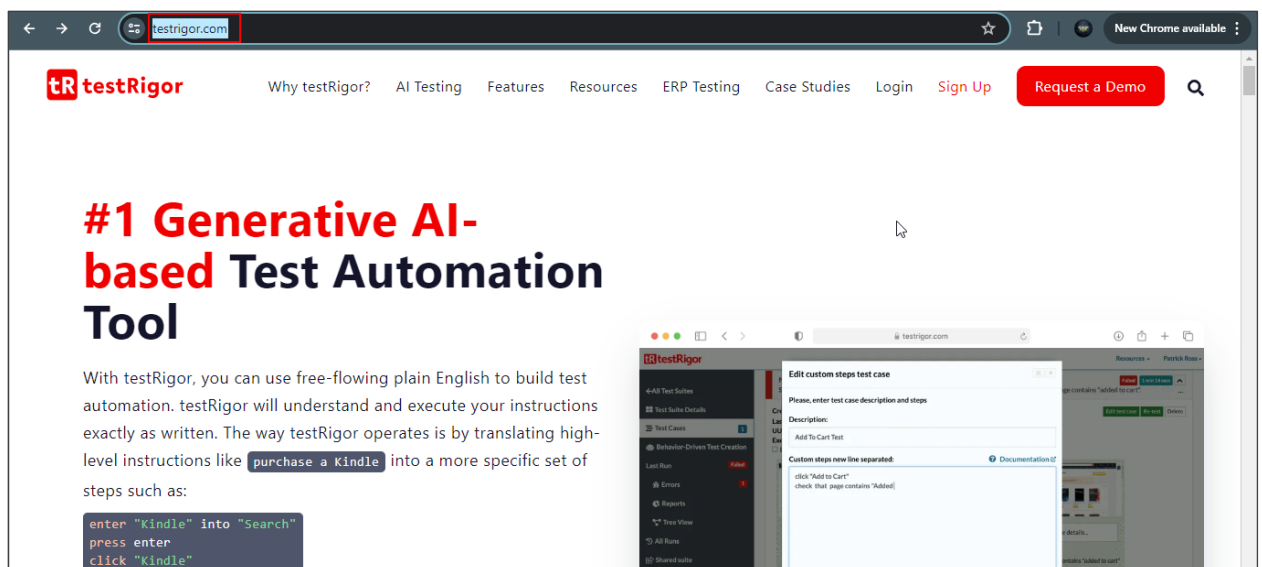
Steps to be followed:

1.1 Generate and execute the test cases using testRigor

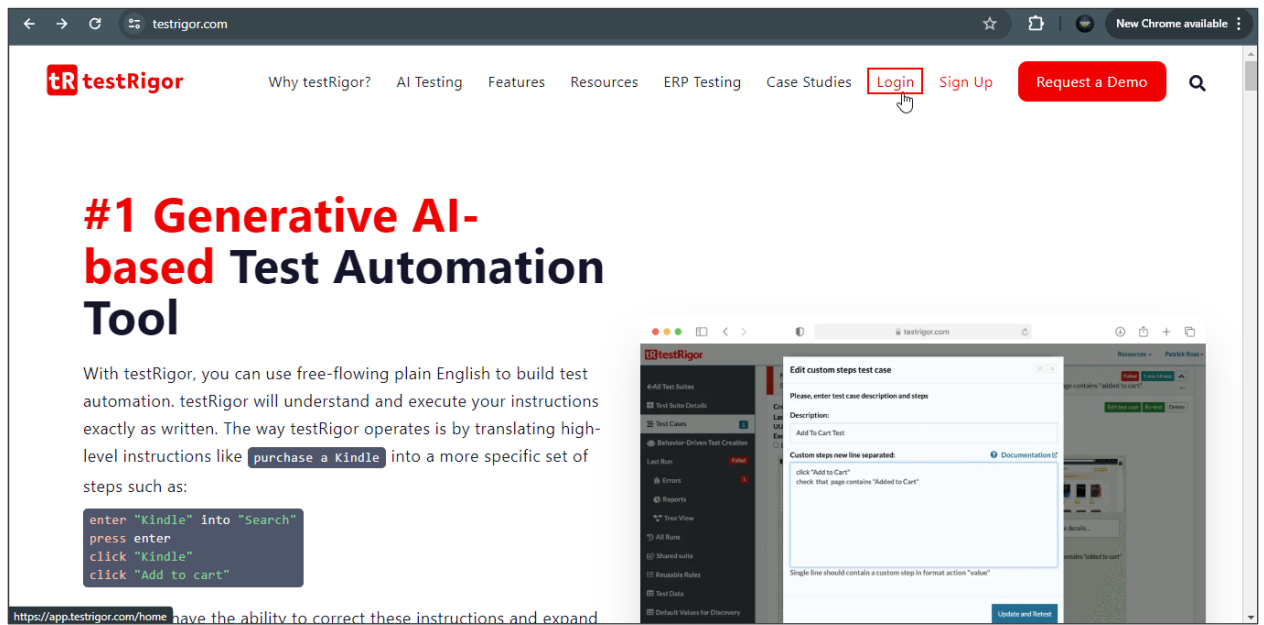
Note: Please note that all the generative AI tools used in this exercise can produce varied outputs even when presented with similar prompts. Thus, you may get different outputs for the same prompt.

Step 1: Generate and execute the test cases using testRigor

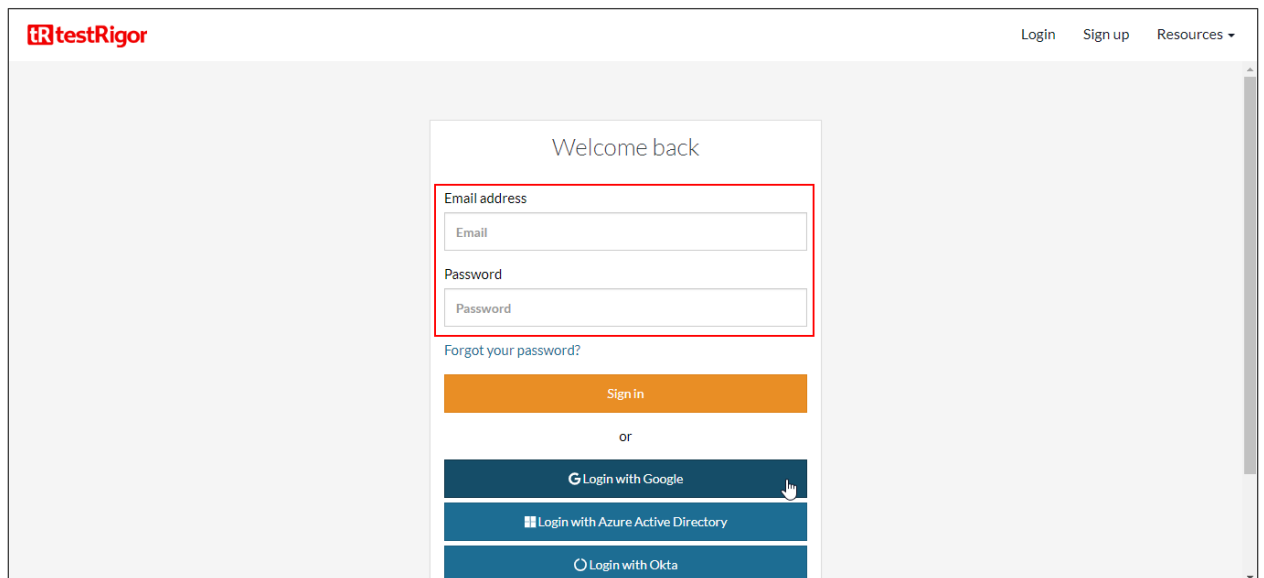
1.1 Navigate to <https://testrigor.com/>



1.2 Click on the **Login** button, as shown in the screenshot below:

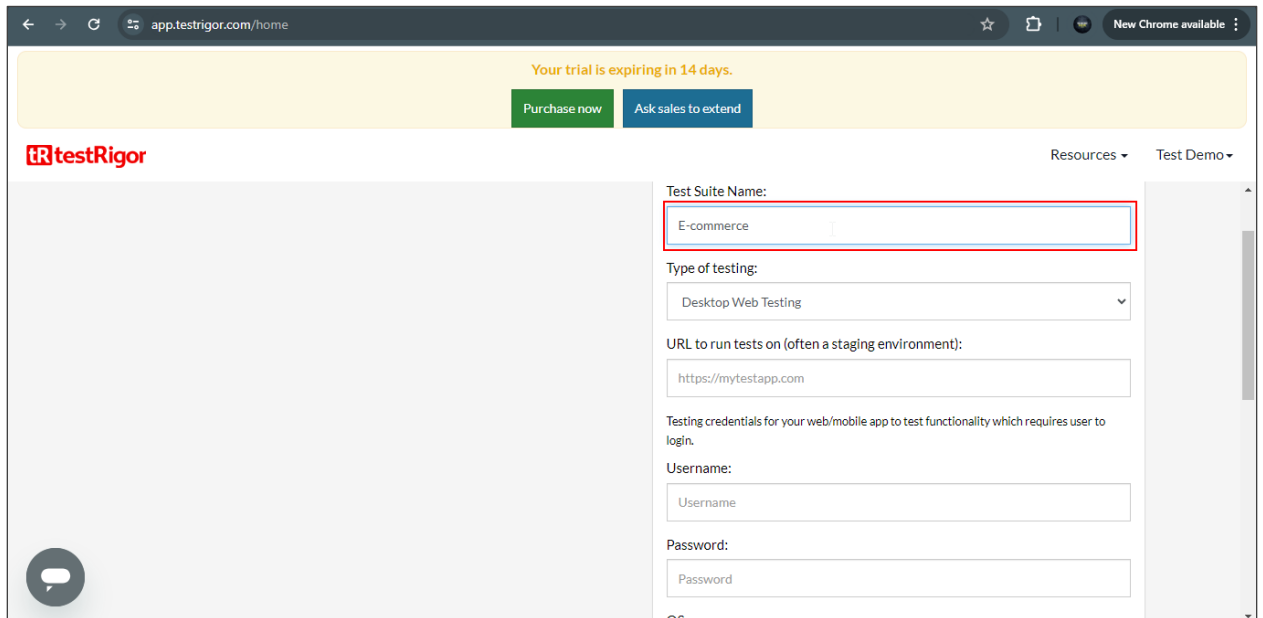


1.3 Add the login credentials in the following text area:



Note: Sign up if you do not have an account

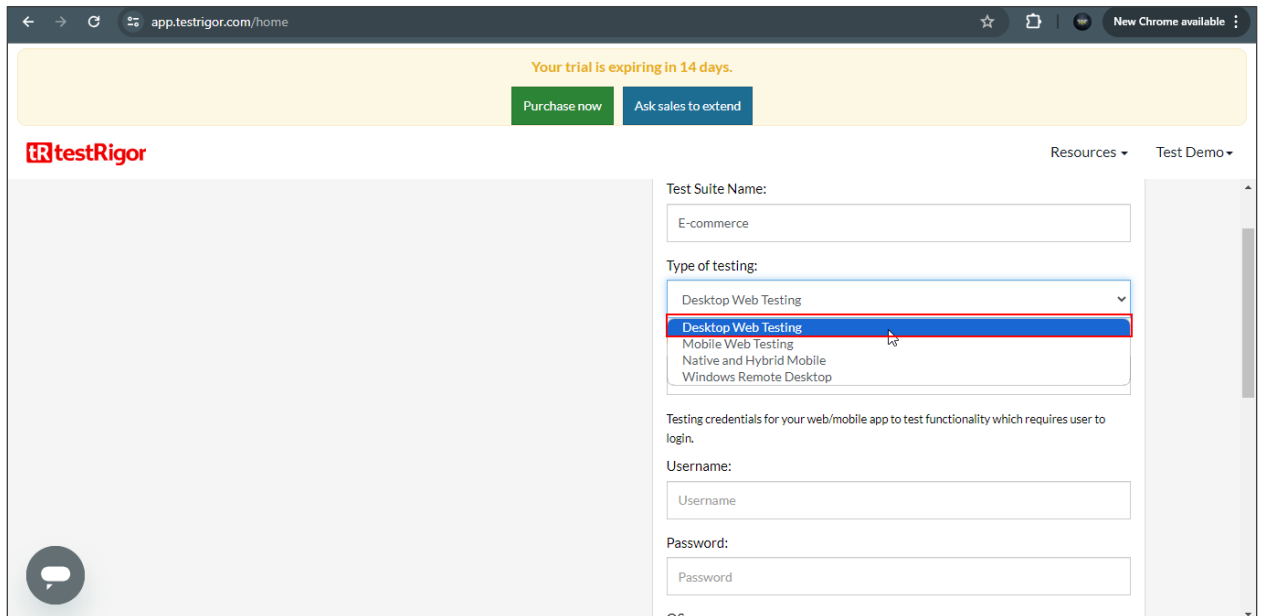
1.4 Enter the desired test suite name, as shown in the screenshot below:



The screenshot shows the testRigor homepage in a web browser. At the top, a yellow banner indicates "Your trial is expiring in 14 days." with buttons for "Purchase now" and "Ask sales to extend". The testRigor logo is on the left. On the right, there are links for "Resources" and "Test Demo". The main form on the right contains the following fields:

- Test Suite Name:** A text input field containing "E-commerce", which is highlighted with a red rectangle.
- Type of testing:** A dropdown menu currently showing "Desktop Web Testing".
- URL to run tests on (often a staging environment):** A text input field containing "https://mytestapp.com".
- Testing credentials for your web/mobile app to test functionality which requires user to login.**
- Username:** A text input field containing "Username".
- Password:** A text input field containing "Password".
- OS:** A partially visible dropdown menu.

1.5 Select the desired type of testing, as shown in the screenshot below:



This screenshot shows the same testRigor homepage, but the "Type of testing:" dropdown menu is open. The menu lists the following options:

- Desktop Web Testing (highlighted with a blue background and a red rectangle)
- Mobile Web Testing
- Native and Hybrid Mobile
- Windows Remote Desktop

The other fields in the form remain the same as in the previous screenshot.

1.6 Add the following URL, as shown in the screenshot below:
https://www.amazon.in

The screenshot shows the testRigor web interface. At the top, a yellow banner indicates "Your trial is expiring in 14 days." with buttons for "Purchase now" and "Ask sales to extend". The testRigor logo is on the left. On the right, there are tabs for "Resources" and "Test Demo". The main configuration area on the right includes:

- Test Suite Name:** A text input field containing "E-commerce".
- Type of testing:** A dropdown menu set to "Desktop Web Testing".
- URL to run tests on (often a staging environment):** A text input field containing "https://www.amazon.in", which is highlighted with a red rectangle.
- Testing credentials for your web/mobile app to test functionality which requires user to login:** A section with two input fields: "Username" and "Password".
- OS:** A dropdown menu.

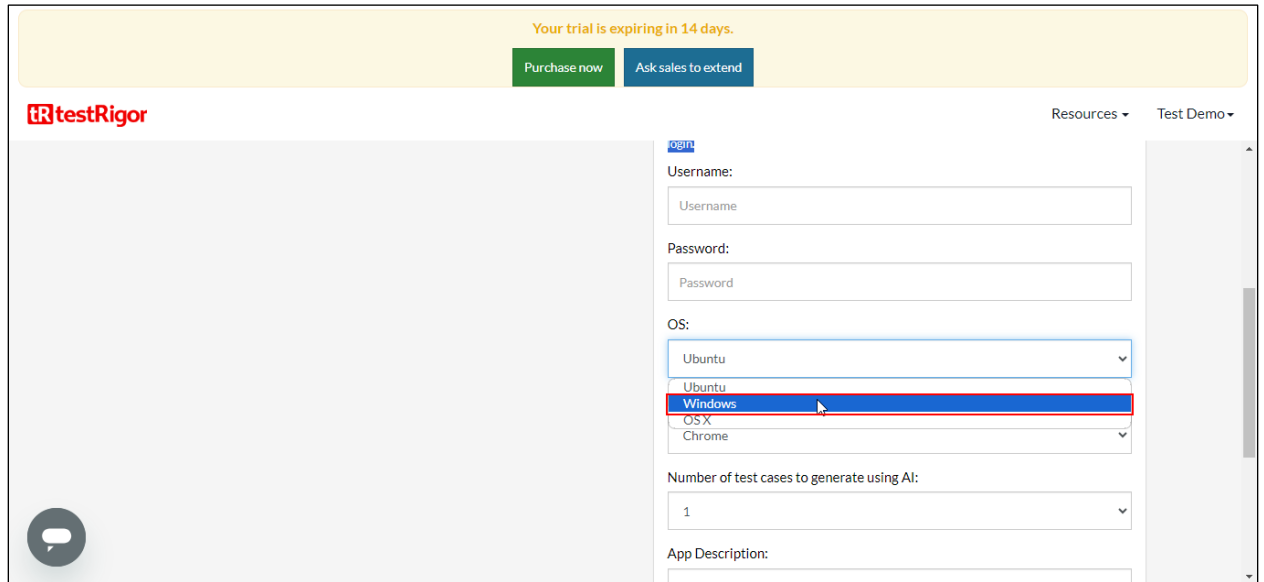
A chat bubble icon is visible in the bottom left corner of the main area.

Note: You may add any desired website URL.

1.7 Add the credentials for the login, if any

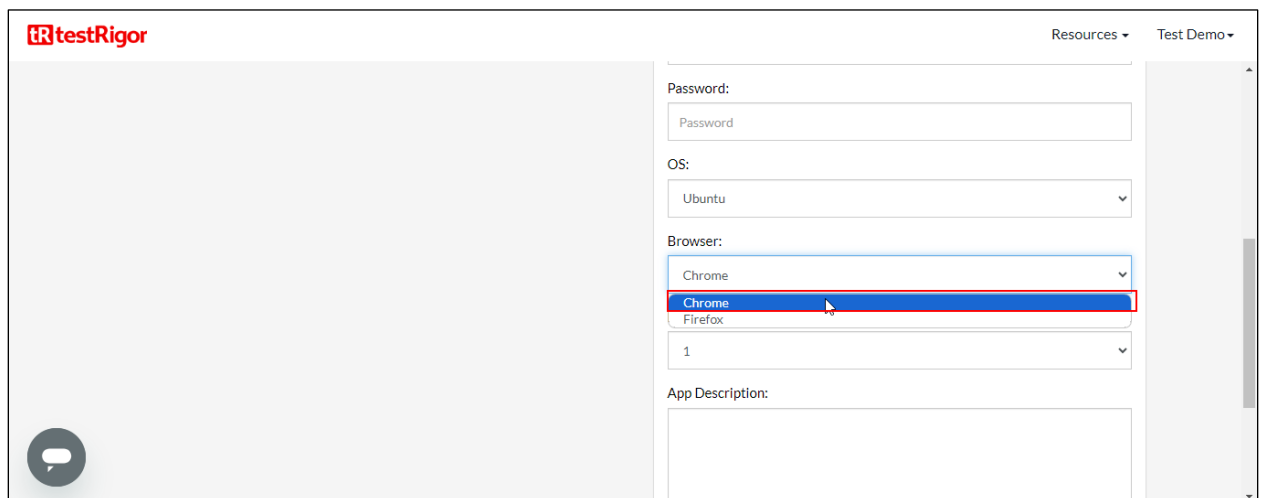
This screenshot shows the same testRigor web interface as the previous one, but with the login credentials section filled out. The "Username" and "Password" input fields are highlighted with a red rectangle. The "OS" dropdown menu is now set to "Ubuntu".

1.8 Select the desired operating system, as shown in the screenshot below:



The screenshot shows the testRigor login page. At the top, a yellow banner indicates "Your trial is expiring in 14 days." with buttons for "Purchase now" and "Ask sales to extend". The testRigor logo is in the top left. On the right, there are links for "Resources" and "Test Demo". The main form area includes fields for "Username:" and "Password:". Below these is the "OS:" dropdown menu, which is open, showing options: "Ubuntu", "Windows" (highlighted with a red box and a mouse cursor), "OS X", and "Chrome". Below the OS menu is the "Number of test cases to generate using AI:" dropdown menu, set to "1". At the bottom is the "App Description:" text area. A chat icon is visible in the bottom left corner.

1.9 Select the desired browser, as shown in the screenshot below:



The screenshot shows the testRigor login page with the "Browser:" dropdown menu open. The options are "Chrome" (highlighted with a red box and a mouse cursor) and "Firefox". The "OS:" dropdown menu is now closed and set to "Ubuntu". The "Number of test cases to generate using AI:" dropdown menu remains set to "1". The "App Description:" text area is empty. The chat icon is still visible in the bottom left corner.

1.10 Select and specify the desired number of test cases, as shown in the screenshot below:

The screenshot shows the testRigor interface. On the right side, there are configuration options: OS (Ubuntu), Browser (Chrome), and Number of test cases to generate using AI (1). A dropdown menu for the number of test cases is open, showing options 0, 1, 3, 5, 10, 15, 20, and 25. The option 5 is highlighted. Below the dropdown is a green button labeled 'Create Test Suite'.

- 1.11 Add a detailed description of the user interaction steps for purchasing an item in the **App Description** section, as shown in the screenshot below. You may use the following description for reference:

Click on the Search input area

Search for Apple iPhone 15 (128 GB) - Black

Validate if the text "Apple iPhone 15 (128 GB) - Black" is present

Click on Add to cart

Click on Go to Cart

Validate if the page contains the text "Shopping Cart"

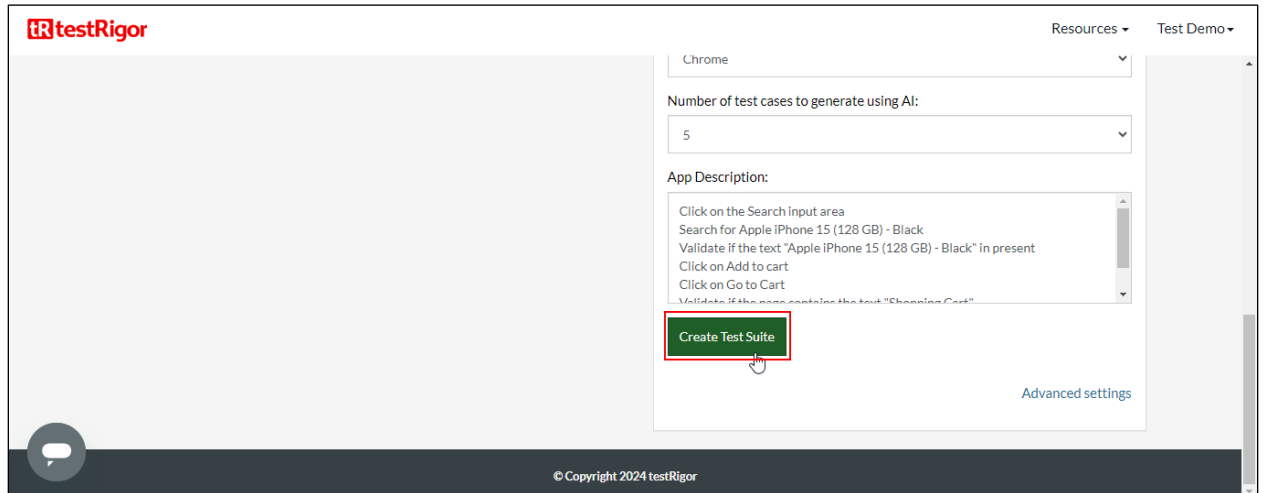
Click on Proceed to buy

The screenshot shows the testRigor interface with the 'App Description' section filled with the following steps:

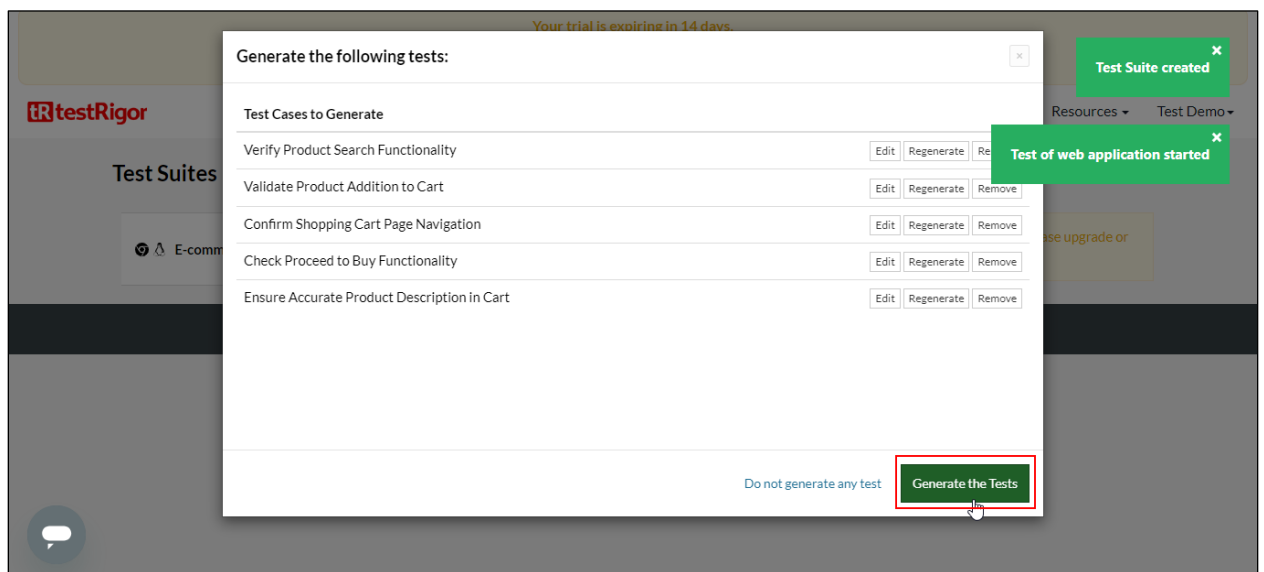
- Click on the Search input area
- Search for Apple iPhone 15 (128 GB) - Black
- Validate if the text "Apple iPhone 15 (128 GB) - Black" is present
- Click on Add to cart
- Click on Go to Cart
- Validate if the page contains the text "Shopping Cart"

The 'App Description' section is highlighted with a red border. Below it is a green button labeled 'Create Test Suite'.

1.12 Click on the **Create Test Suite** button, as shown in the screenshot below:



1.13 Click on the **Generate the Tests** button



You will see the following interface:

testRigor

Resources Test Demo

Test Suites > E-commerce > Test Cases

Your test cases are being executed... Estimated time left: 14m Cancel testing

Test suite hooks

Test cases

Request to build tests for me Invite for an interview Invite collaborators Generate AI test cases Find and Replace Add Custom Test Case

Search by text... On all content All Statuses

dd-mm-yyyy dd-mm-yyyy Show advanced options

Apply Clear

testRigor

Resources Test Demo

Test Suites > E-commerce > Test Cases

5

Test Cases

My requests

Behavior-Driven Test Creation

Last Run In progress

Errors

Reports

View

Cur Data

Name: Ensure Accurate Product Description in Cart Labels: + Link Data Set In queue Quick actions

Steps:

Name: Confirm Shopping Cart Page Navigation Labels: + Link Data Set In queue Quick actions

Steps:

Name: Check Proceed to Buy Functionality Labels: + Generate corner cases Link Data Set Passed 2 mins 10 secs Quick actions

Steps: Enter "1" into "All". Enter "2" into "All". Click "All". Click "Mobiles, Computers". Click "All Mobile Phone..."

Name: Validate Product Addition to Cart Labels: + Link Data Set In progress Quick actions

Steps: Enter "1" into "All". Enter "2" into "All". Click "All". Click "Mobiles, Computers". Click "All Mobile Phone..."

Name: Verify Product Search Functionality Labels: + Link Data Set In queue Quick actions

Steps:

5 results | Page 1 of 1

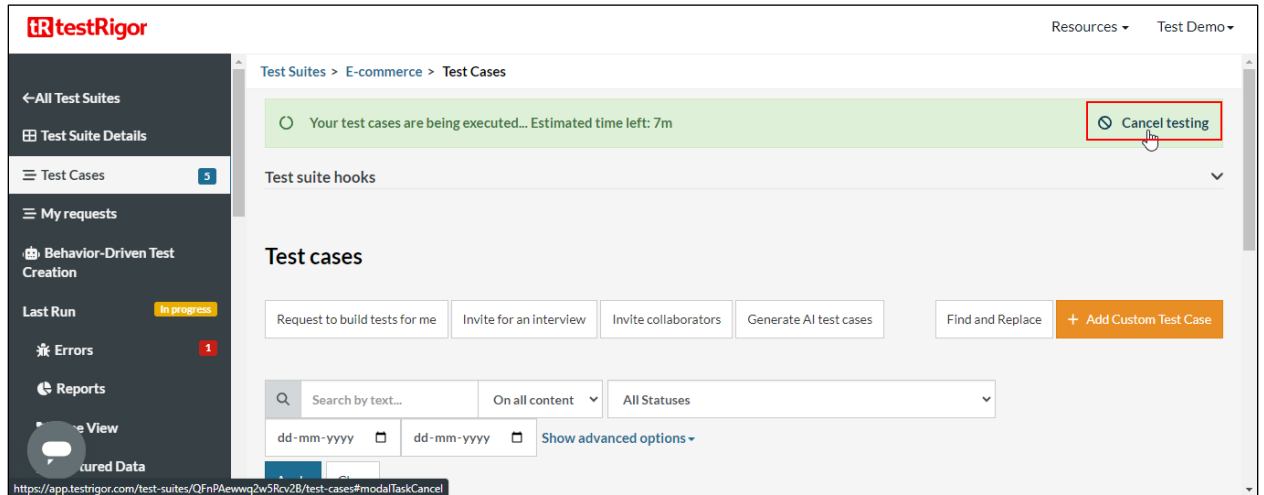
Note: The test cases may not give the expected output as you have selected five different test cases for each functionality.

1.14 Click on the down-arrow icon of the passed test case to see the screenshots and output, as shown in the screenshot below:

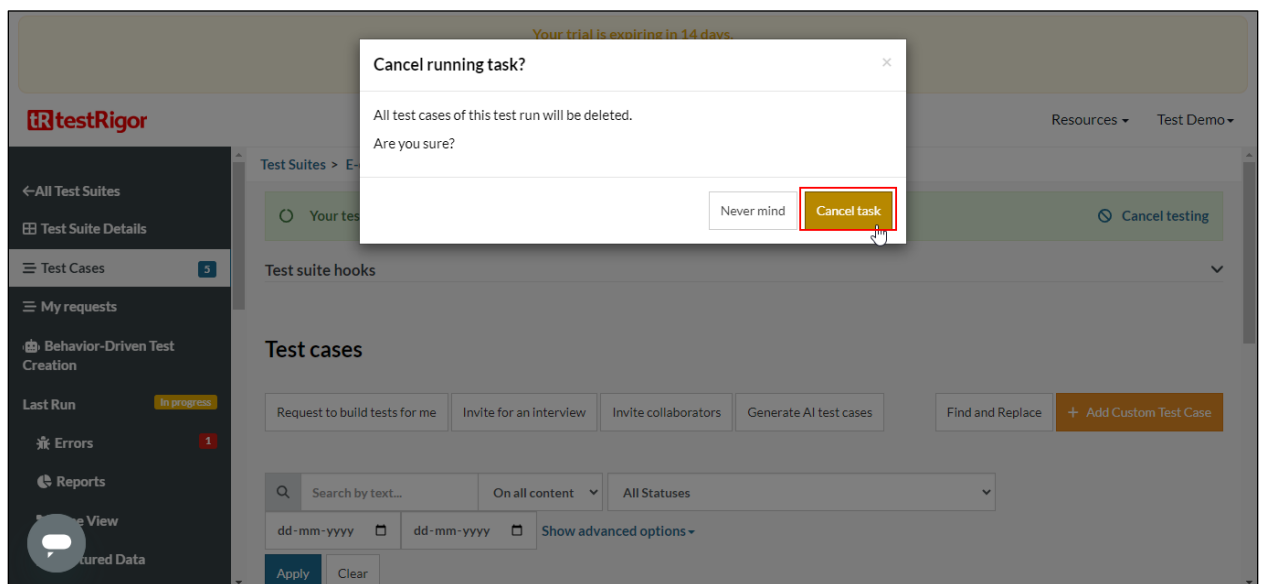
The screenshot shows the testRigor interface with a sidebar on the left containing navigation links: All Test Suites, Test Suite Details, Test Cases (3), My requests, Behavior-Driven Test Creation, Last Run (In progress), Errors, Reports, and a View button. The main area displays a list of test cases. The third test case, 'Check Proceed to Buy Functionality', is highlighted in green. It has a 'Passed' status and a duration of '2 mins 10 secs'. A red circle highlights the down-arrow icon next to the 'Quick actions' button for this test case.

The screenshot shows the details of the 'Check Proceed to Buy Functionality' test case. It includes metadata: Created on: 04/29/2024 at 09:15 by Test Demo, Triggered on: 04/29/2024 at 09:15 by Test Demo, and UUID: d37254f2-5c07-48a5-afab-0da6639c8bee. There are buttons for Quick edit, Edit test case, Re-test, Debug, Copy, Delete, and View Steps. A checkbox for 'Disable re-testing of this test case' is also present. Below the metadata, there are four screenshots showing the test execution process. Each screenshot has a 'More details...' button and a duration: 6s 836ms, 11s 352ms, 200ms, and 5s 5ms. The descriptions for the last two screenshots are 'enter "1" into "All"' and 'enter "2" into "All"'.

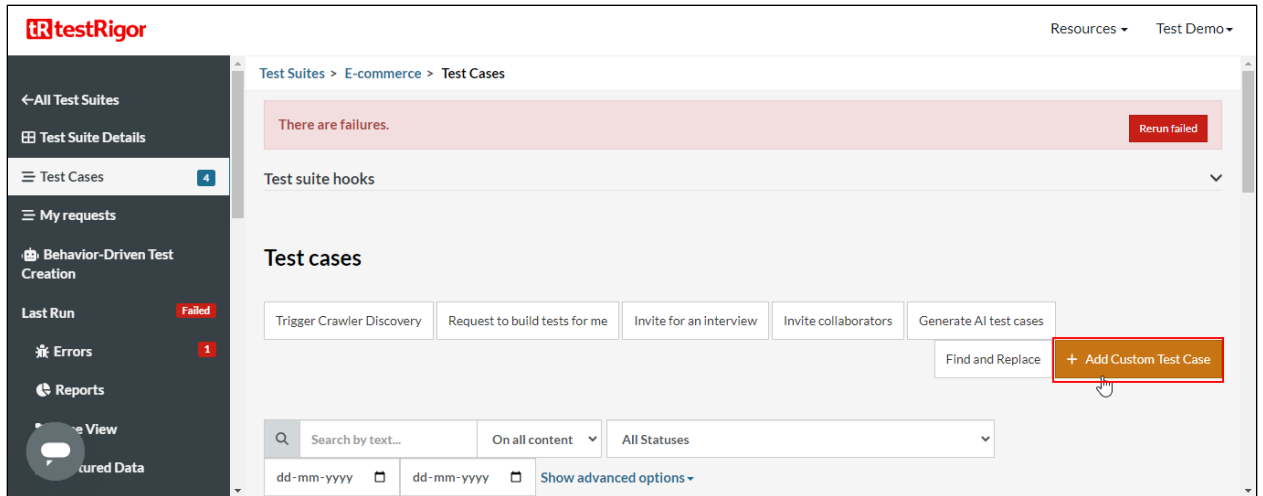
1.15 Scroll up and click on **Cancel testing**, as shown in the screenshot below:



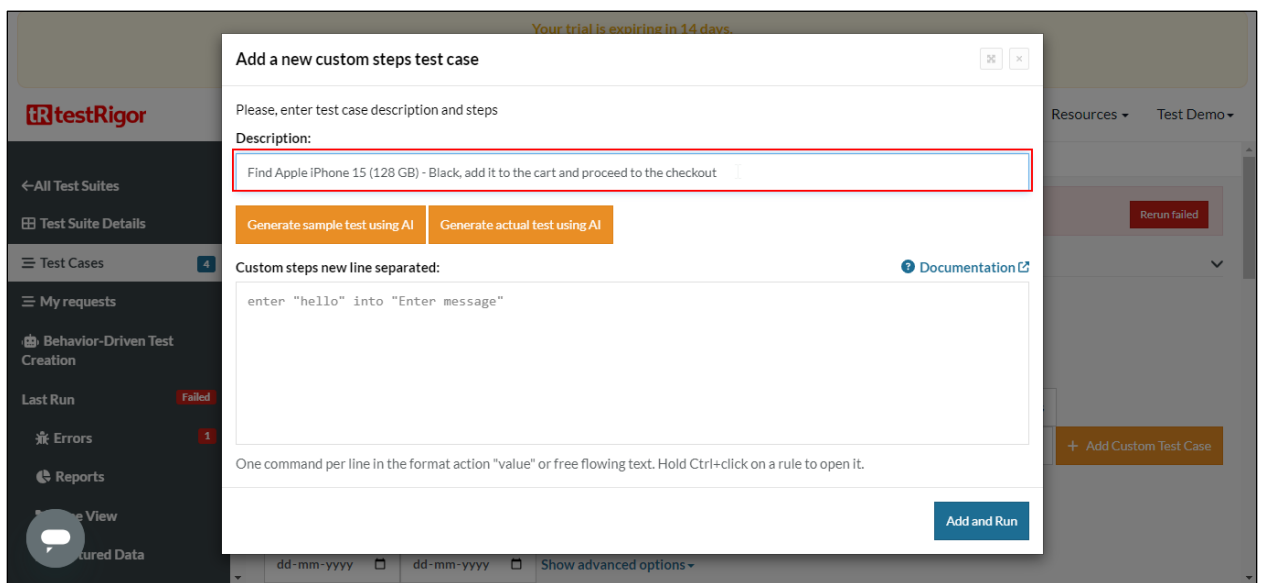
1.16 Click on **Cancel task**, as shown in the screenshot below:



1.17 Click on **Add Custom Test Case** to create a new test case



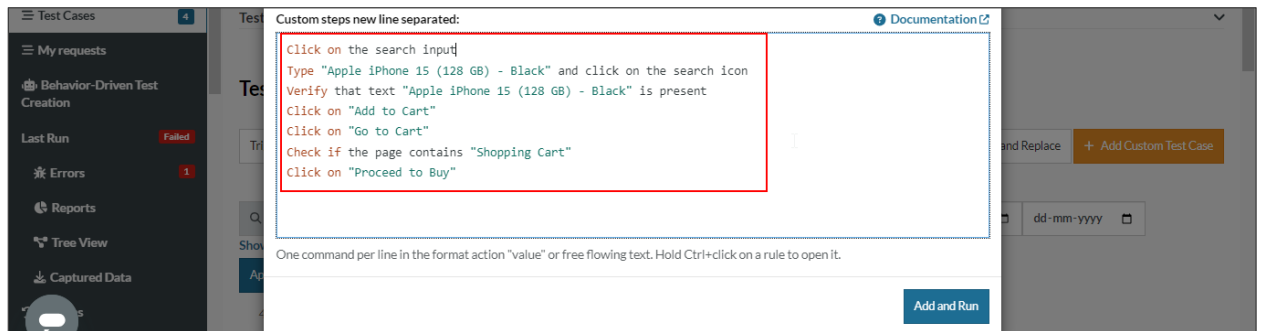
- 1.18 Add a brief description, as shown in the screenshot below:
Find Apple iPhone 15 (128 GB) – Black, add it to the cart and proceed to the checkout



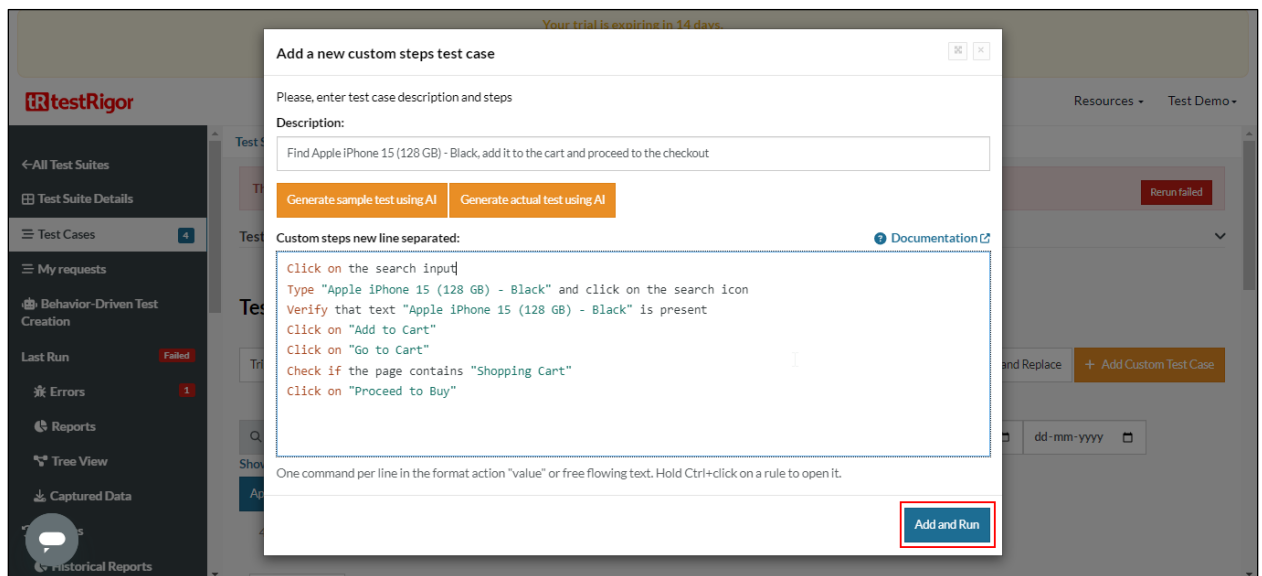
Note: You may either mention each step as earlier or click on **Generate actual test using AI**. Initially, try adding custom steps and later utilize AI for generating tests, as shown in the next steps.

- 1.19 Add the custom steps, as shown in the screenshot below. You may use the following description for reference:
Click on the search input.

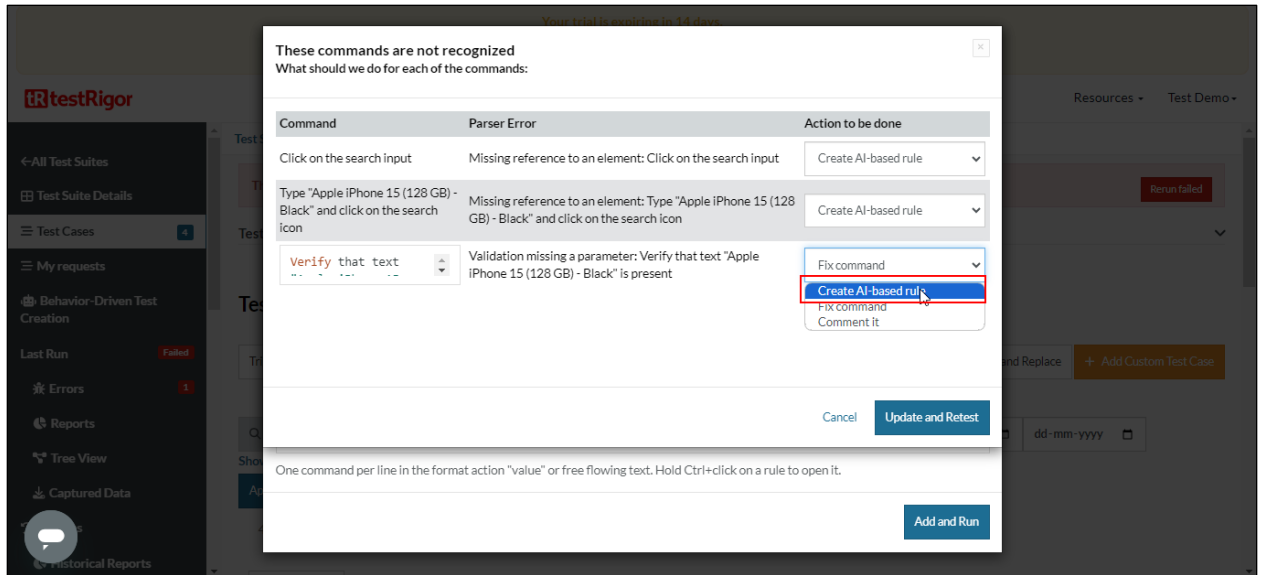
Type "Apple iPhone 15 (128 GB) - Black" and click on the search icon.
Verify that text "Apple iPhone 15 (128 GB) - Black" is present.
Click on "Add to Cart".
Click on "Go to Cart".
Check if the page contains "Shopping Cart".
Click on "Proceed to Buy".



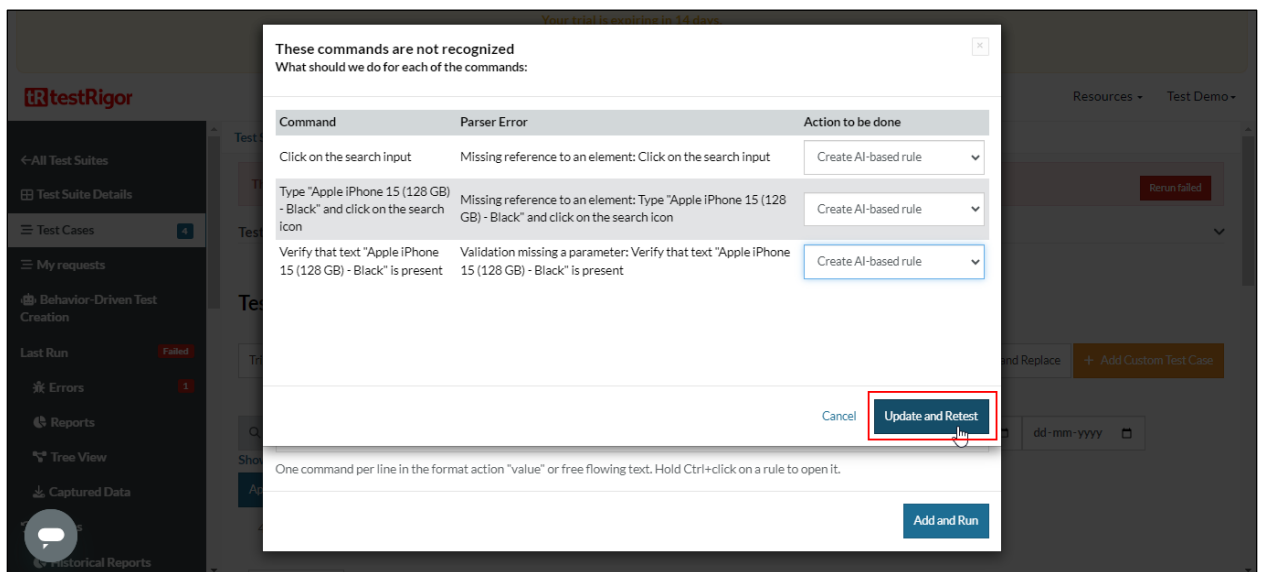
1.20 Click on the **Add and Run** button



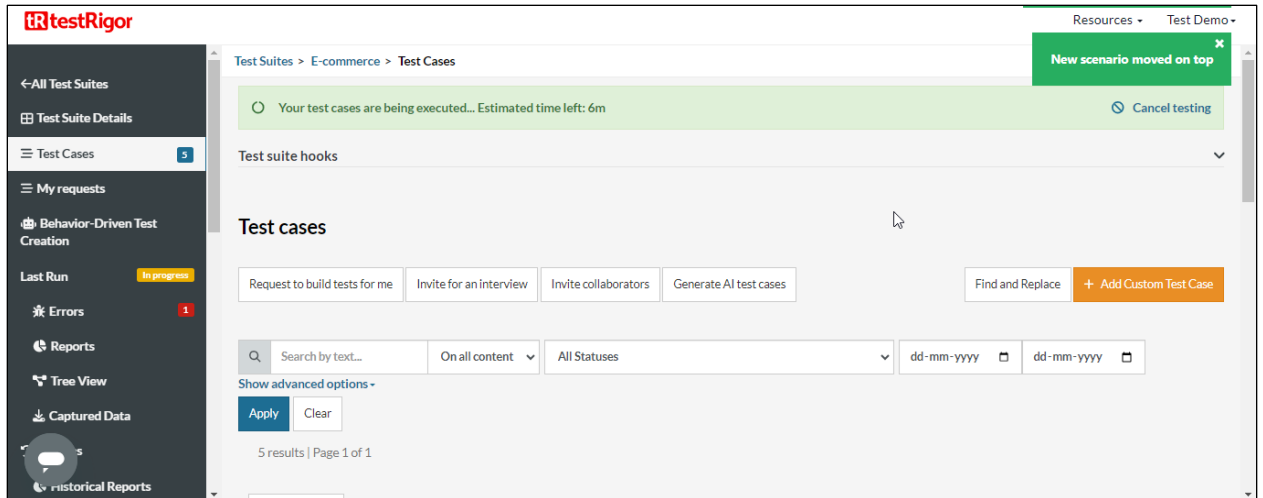
1.21 Select **Create AI-based rule** under the **Actions to be done** section for all the steps, as shown in the screenshot below:



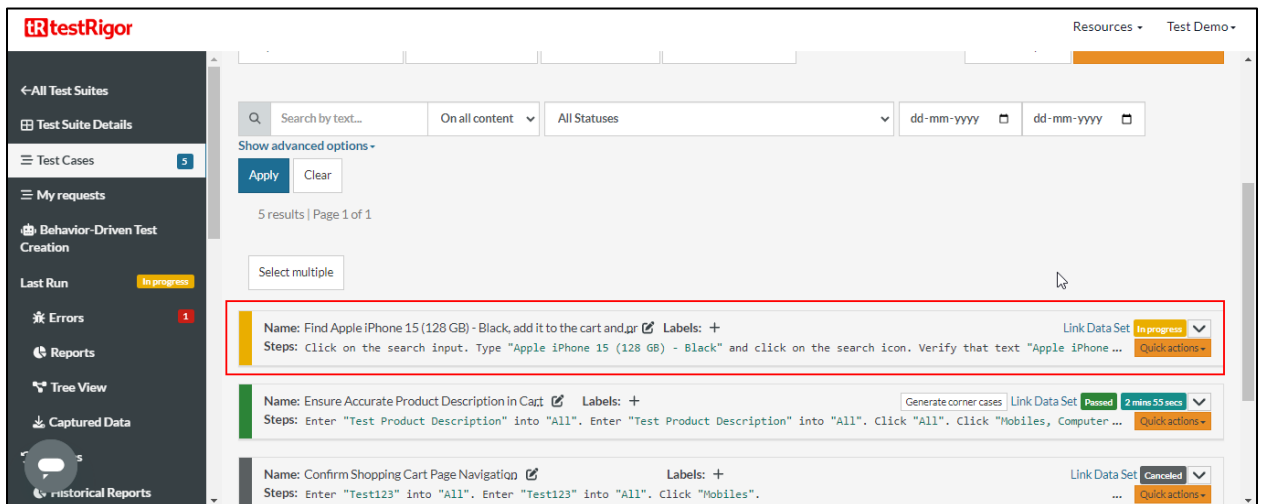
1.22 Click on the **Update and Retest** button



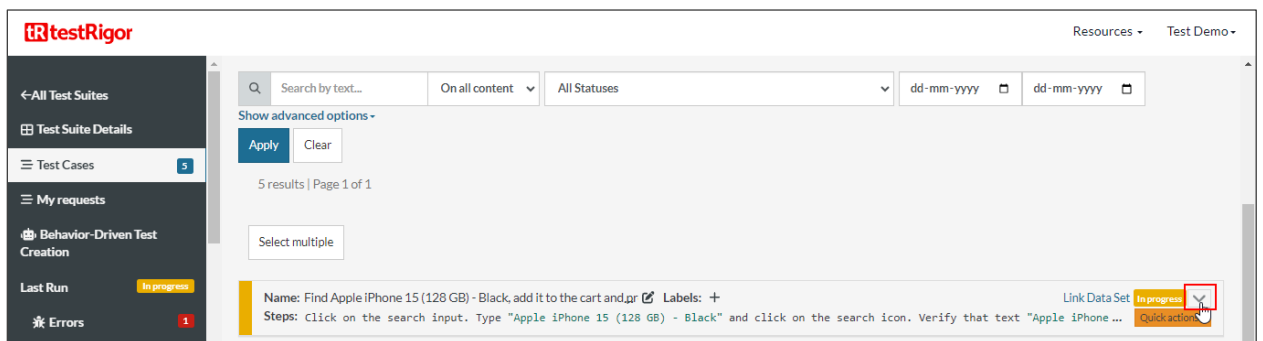
You will see the following interface:



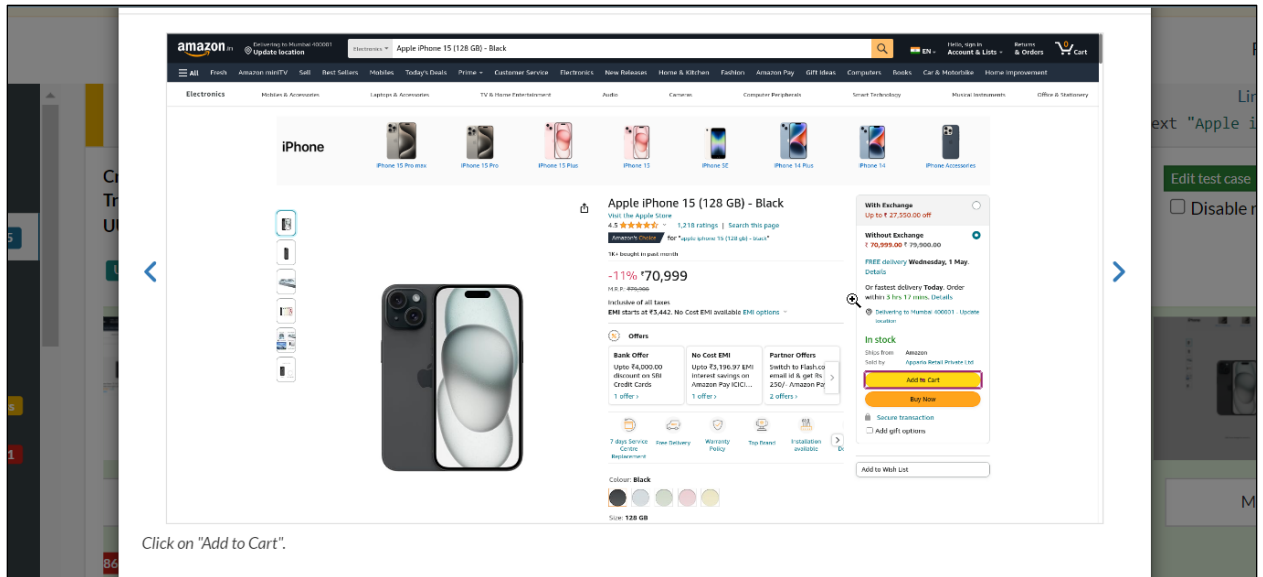
The test case execution is in progress, as shown in the screenshot below:



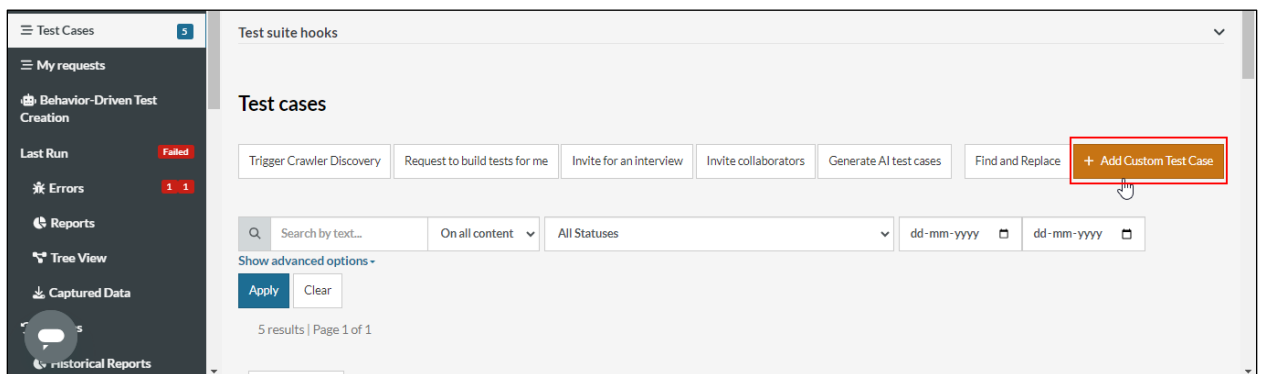
1.23 Click on the down arrow icon, as shown in the screenshot below:



You will see the screenshots generated during the test, as shown below:

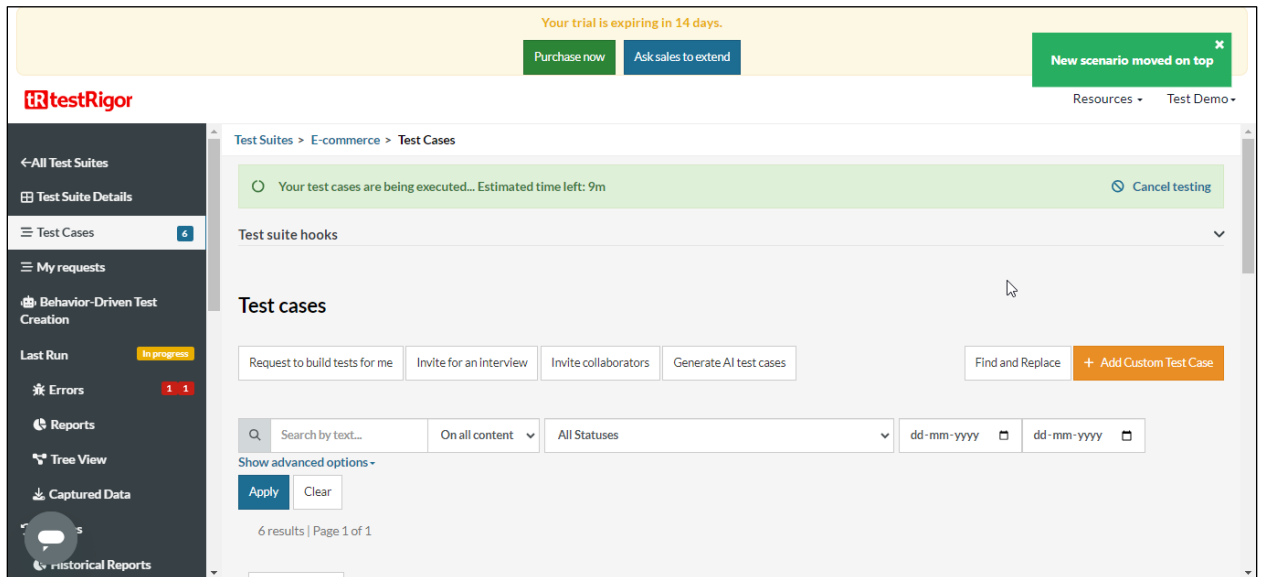
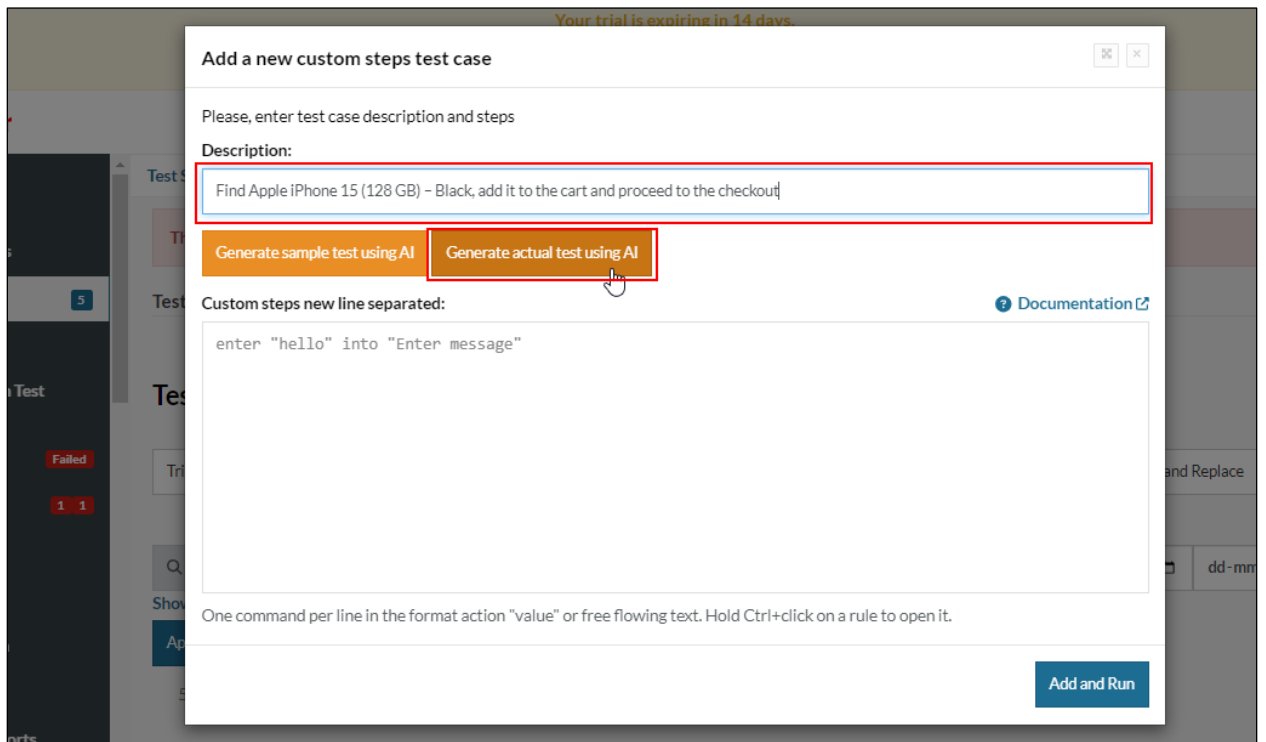


1.25 Scroll up and click on **Add Customer Test Case**



1.26 Add a brief description and click on the **Generate actual test test using AI** button, as shown in the screenshot below:

Find Apple iPhone 15 (128 GB) – Black, add it to the cart and proceed to the checkout



← All Test Suites

Test Suite Details

Test Cases 6

My requests

Behavior-Driven Test Creation

Last Run In progress

Errors 1 1

Reports

Tree View

Captured Data

Historical Reports

Name: Find Apple iPhone 15 (128 GB) - Black, add it to the cart and pr

Labels: +

Link Data Set

In progress

Steps: click "All". Click "Mobiles, Computers". Click "All Mobile Phones". Click "Mobiles & Accessories". Enter "Apple iPhone 15 (128 GB) - Black" i...

Created on: 04/29/2024 at 10:05 by Test Demo

Triggered on: 04/29/2024 at 10:05 by Test Demo

UUID: 1d295d7a-2f78-4422-b255-8278545ac45f

Edit test case

Cancel re-test

View Steps

☐ Disable re-testing of this test case

View execution

Ubuntu Chrome

More details...

7ms

More details...

2s 516ms

More details...

4s 494ms

More details...

4s 214ms

More details...

4s 509ms

Description: click "All Mobile Phones"

Description: click "Mobiles & Accessories"

Note: If a test case is fails, make the necessary changes and re-test them until you get the desired outcome.

By following these steps, you have successfully automated the test case generation and execution process using testRigor to ensure the functionality and user experience of an e-commerce website meet specified requirements.