

SauceLab Support Tech Test

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The intention of this document is to demonstrate how I performed all the scenarios or outlined tasks in the SauceLab Support Tech Test.

How to Setup Sauce Lab Env?

- Created a trial account on the saucelabs.com

The screenshot shows the 'User Settings' page of the Sauce Labs web interface. On the left, there's a sidebar with various options like 'Get Started Guide', 'App Management', 'Live', 'Automated', 'Test Results', 'Builds', 'Archive', 'Platform Configurator', 'Insights', 'Visual Testing', 'API Testing', and 'Mobile Beta Testing'. Below this is a 'Get Started Checklist' with items: 'Sign up' (checked), 'Run your first test' (checked), 'View your test results' (checked), 'Set up your profile' (checked), and 'Invite a teammate' (unchecked). The main content area is titled 'My Account' and shows 'Team Assignment: Default' and 'Allowed Concurrency: 2'. It has sections for 'User Information' (First Name: Nirmala, Last Name: Joshi, User Name: oauth-joshinirmala.110-b073b, Update button), 'Email Address' (Email Address: joshinirmala.110@gmail.com, Update button), and 'Access Key' (Access Key: f516f826-3311-429e-99e1-edf0e5561e95, REGENERATE ACCESS KEY button). A warning message at the bottom right says: 'Warning: Regenerating your access key will require update your application to use the new key.'

- Copied the Access Key, User Name and Ondemand URL from the User Settings section.
- Exported the Env Variable into the system
SAUCE_USERNAME = oauth-joshinirmala.110-xxxx
SAUCE_ACCESS_KEY = <>
- Accessed the dashboard at
<https://app.eu-central-1.saucelabs.com/dashboard/tests/vdc>

WorkingSauce Test

Covering all 5 tasks outlined in the WorkingSauce test section.

Task 1

Objective:

Update the test code so when it runs, the test clicks the "I am a link" link.

Code

```
/**  
 *  
 * var clickable = await driver.findElement(By.id("i am a link"));  
 * // find right element ByID from page  
 * console.log(clickable);  
 * //logging the ID to a console  
 * await clickable.click();  
 * // wait till it clicks on Link  
 */
```

Result

The screenshot shows the Sauce Labs Test Results interface. On the left, there's a sidebar with various options like Get Started Guide, App Management, Live, Automated, Test Results, Insights, Visual Testing, API Testing, and Mobile Beta Testing. The main area shows a completed test run named 'Guinea-Pig Sauce'. The 'Commands' tab lists the following steps:

- POST /session (0:00.00 (+3.37))
- LOAD URL https://saucelabs.com/test/guinea-pig (0:04.25 (+0.82))
- GET title (0:05.75 (+0.01))
- FIND [id='I am a link'] (0:06.25 (+0.02))
- CLICK element (0:07.00 (+0.66))
- DELETE /session (0:08.25 (+0.00))

The 'Screenshots' tab shows a screenshot of a browser window with the URL https://saucelabs.com/test/guinea-pig. The browser title bar says 'This page is a Selenium sandbox'. The screenshot shows a simple form with fields for 'First name', 'Last name', and 'Email'. There are also buttons for 'Submit' and 'Cancel'.

References used

- <https://saucelabs.com/blog/the-selenium-click-command>

Task 2

Objective

Update the test code so when it runs,

- the test is able to write "Sauce" in the text box that currently says "I has no focus".

Code:

```
/**
    await driver.findElement(By.id("i_am_a_textbox")).clear();
    // Clear the textbox field
    await driver.findElement(By.id("i_am_a_textbox")).sendKeys("Sauce");
    // Set the specific text to Textbox (Sauce)
*/
```

Result:

The screenshot shows the Sauce Labs Test Results page for a completed test named "Guinea-Pig Sauce". The test was run about 8 hours ago via Webdriver. The results section displays a list of commands with their execution times:

Command	Time
POST /session	00:00.00 (+12.49)
LOAD URL https://saucelabs.com/test/guinea-pig	00:13.25 (+0.89)
GET title	00:14.75 (+0.01)
FIND "[id='I_am_a_textbox']"	00:15.25 (+0.02)
CLEAR element/0df5668b-95f4-48b6-8821-79da3319a7ef/clear	00:16.00 (+0.05)
FIND "[id='I_am_a_textbox']"	00:16.75 (+0.01)
SEND KEYS element/0df5668b-95f4-48b6-8821-79da3319a7ef/value	00:17.50 (+0.13)
DELETE /session/af5dd61ff4044e40946e5e93af6d8c34	00:18.25 (+0.00)

The "Screenshots (5)" tab is selected, showing five screenshots. One screenshot is highlighted with a red box, showing a Selenium sandbox interface with a text input field containing "Sauce Labs".

References used

- https://www.selenium.dev/documentation/webdriver/getting_started/first_script/

Task 3

Objective

Update the test code so when it runs, it adds an email to the email field,

- adds text to the comments field, and clicks the "Send" button.
- Note that email will not actually be sent!

Code

```
/** 
var clickable = await driver.findElement(By.id("submit"));
// Find Id of Send Button

await driver.findElement(By.id("fbemail")).clear();
// clear the email textbox
await driver.findElement(By.id("fbemail")).sendKeys("jon.doe@gmail.com");
// Type in email address in the email textbox

await driver.findElement(By.id("comments")).clear();
// clear the comment textbox
```

```

        await driver.findElement(By.id("comments")).sendKeys("Dummy Comment for
Sauce Testing"); // add the comment to textbox

        await clickable.click(); // Click on Send button

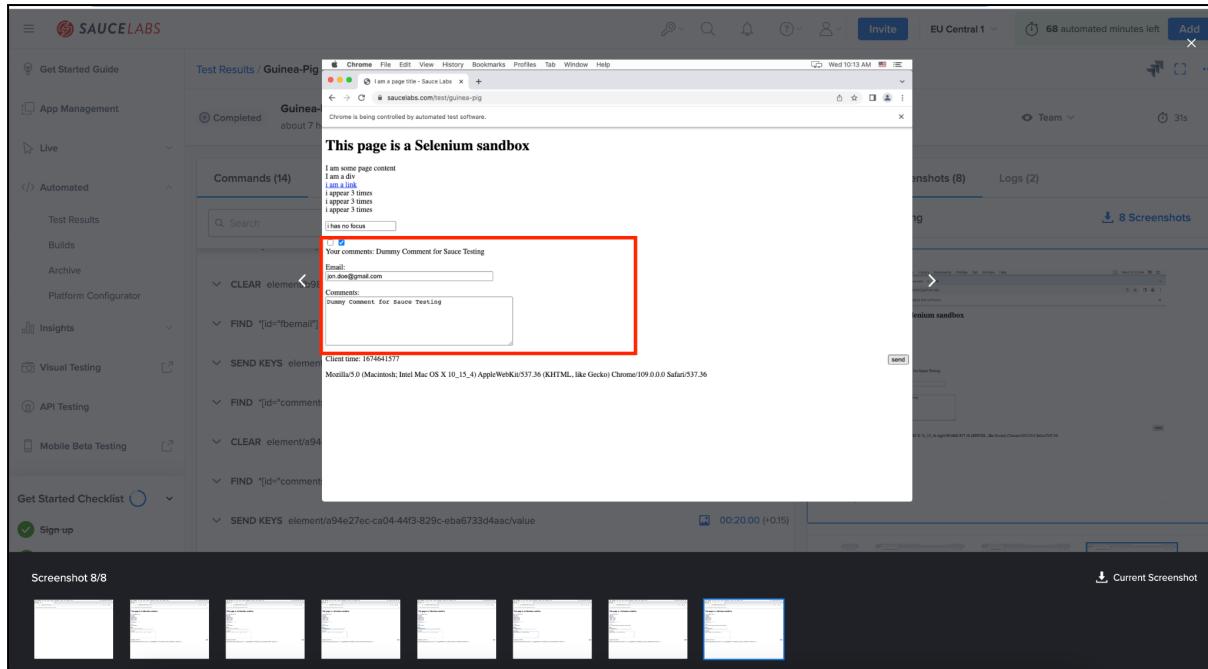
    */

```

Result

The screenshot shows the Sauce Labs Test Results interface. On the left, there's a sidebar with various navigation options like 'App Management', 'Live', 'Automated', 'Test Results', 'Builds', 'Archive', 'Platform Configurator', 'Insights', 'Visual Testing', 'API Testing', and 'Mobile Beta Testing'. Below that is a 'Get Started Checklist' with items like 'Sign up', 'Run your first test', 'View your test results', 'Set up your profile', and 'Invite a teammate'. The main area shows a completed test run named 'Guinea-Pig Sauce' from about 7 hours ago. The 'Commands' tab is selected, displaying 14 commands with execution times such as 00:15.50, 00:16.25, etc. The 'Screenshots' tab is also visible, showing two screenshots of a browser window titled 'This page is a Selenium sandbox'.

This screenshot is identical to the one above, showing the same completed test run and command history. The difference is in the 'Screenshots' section, where it now shows two different screenshots of the browser window, suggesting a scroll operation has occurred during the test execution.



References used

- https://www.selenium.dev/documentation/webdriver/getting_started/first_script/
- <https://docs.saucelabs.com/mobile-apps/automated-testing/appium/configuration/#best-practices-for-identifying-application-elements>

Task 4

Objective

Add a capability that adds a tag to each test that is run. See this page for instructions:
<https://docs.saucelabs.com/dev/test-configuration-options/>

Code

```
/***
    // added tags to utils.js file -  'tags': ["Interview", "sauceLab",
"SupportDepartment"]
*/
```

```
const workingCapabilities = {
  'browserName': 'googlechrome',
  'platformName': 'macOS 10.15',
  'browserVersion': 'latest',
  'sauce:options': {
```

```

        'name': 'Guinea-Pig Sauce',
        'screenResolution': '1280x960',
        'tags': ["Interview", "saucelab", "SupportDepartment"],
        'build': process.env.GITLAB_CI ? `${process.env.CI_JOB_NAME}-${date}` :
`support-tech-test-${date}`
    }
}

```

Result

The screenshot shows the Sauce Labs Test Results interface. On the left, there's a sidebar with various testing categories like App Management, Live, Automated, Insights, Visual Testing, API Testing, and Mobile Beta Testing. Under 'Automated', 'Test Results' is selected. In the main area, a test run titled 'Guinea-Pig Sauce' is listed as 'Passed'. Below it, the 'Commands (4)' tab is active, showing command details. The 'Metadata' tab is also present. A red box highlights the 'Tags' section, which lists 'Interview', 'saucelab', and 'SupportDepartment'. To the right, there are sections for 'Video', 'Screenshots (3)', and 'Logs (2)'. A video thumbnail for 'video.mp4' is shown with a play button.

References used

- <https://docs.saucelabs.com/basics/test-config-annotation/test-annotation/>

Task 5

Objective

Set the status of the test so it shows as "passed" instead of "complete".

Code

```
afterEach(async function () {
```

```

        if (driver) {
            // Send test result to Sauce Labs
            const result = this.currentTest.state == 'passed' ? 'passed' : 'failed';
            await driver.executeScript(`sauce:job-result=${result}`);

            // Close the browser & end session
            await driver.quit();
        }
    ) ;
}

```

Result

The screenshot shows the Sauce Labs interface with the following details:

- Environment:** Virtual devices
- Owner:** My tests (oauth-joshinirmala.110-b073b)
- Status:** All
- Date:** Wednesday, Jan 25th
- Test Runs:**
 - Broken Google Search (Errored): about 2 hours ago by @oauth-joshinirmala.110-b073b via Webdriver support-tech-test-2023-01-25T15... Catalina 109 1m 56s
 - Guinea-Pig Sauce (Passed): about 2 hours ago by @oauth-joshinirmala.110-b073b via Webdriver support-tech-test-2023-01-25T15... Catalina 109 15s (highlighted with a red box)
 - Guinea-Pig Sauce (Errored): about 2 hours ago by @oauth-joshinirmala.110-b073b via Webdriver support-tech-test-2023-01-25T14... Catalina 109 1m 43s
 - Guinea-Pig Sauce (Completed): about 2 hours ago by @oauth-joshinirmala.110-b073b via Webdriver support-tech-test-2023-01-25T14... Catalina 109 23s
 - Guinea-Pig Sauce (Errored): about 3 hours ago by @oauth-joshinirmala.110-b073b via Webdriver support-tech-test-2023-01-25T14... Catalina 109 1m 44s
 - Guinea-Pig Sauce (Errored): about 3 hours ago by @oauth-joshinirmala.110-b073b via Webdriver support-tech-test-2023-01-25T14... Catalina 109 1m 54s
 - Guinea-Pig Sauce (Errored): about 4 hours ago by @oauth-joshinirmala.110-b073b via Webdriver support-tech-test-2023-01-25T13... Catalina 109 1m 55s
 - Guinea-Pig Sauce (Errored): about 4 hours ago by @oauth-joshinirmala.110-b073b via Webdriver support-tech-test-2023-01-25T13... Catalina 109 1m 43s
 - Guinea-Pig Sauce (Completed): https://app.eu-central-1.saucelabs.com/tests/3c15dc530934467c943f227e90fa7b0... by @oauth-joshinirmala.110-b073b via Webdriver support-tech-test-2023-01-25T11... Catalina 109 13s

References used

- <https://docs.saucelabs.com/test-results/test-status/>
- <https://github.com/saucelabs-training/demo-js/blob/main/nightwatch/webdriver/examples/update-sauce/tests/custom-commands/customSauceLabsEnd.js>

BrokenSauce Test

Intended to find & fix the incorrect code and compile the test successfully.

Task

Objective:

Run this test before working on the problem. When you view the results on your dashboard, you'll see that the test "Failed".

- Your job is to figure out why the test failed and make the changes necessary to make the test pass.
- Once you get the test working, update the code so that when the test runs, it can reach the Sauce Labs homepage, hover over 'Resources' and then clicks the 'Documentation' link

Code

Only highlighting an updated code afterward test is compiled successfully.

```
let search = await driver.findElement(By.name("q"));      //replace correct
name q instead of Search
await search.sendKeys("Sauce Labs");

let button = await driver.findElement(By.name("btnK"))
await button.click()

let page = await driver.findElement(By.partialLinkText("sauce"));
await page.click()           // add page click action

// finding menu/submenu element locations
let docElement = driver.findElement(By.css("#headerMainNav > div > nav > ul
> li.nav-menu-list-container > ul:nth-child(2) > li:nth-child(4) > div.nav-menu >
div > a"));
let submenu = driver.findElement(By.css("#headerMainNav > div > nav > ul >
li.nav-menu-list-container > ul:nth-child(2) > li:nth-child(4) >
div.nav-menu-link-group-row-list-wrapper > div > div > div > ul > li:nth-child(2) >
div > ul > li > div > ul > li:nth-child(1) > div > ul > li > ul > li:nth-child(1) >
a > span"));

//performing action to reach doc page
```

```
    await
driver.actions().move({origin:docElement}).move({origin:submenu}).click().perform()
;

//close browser session
await driver.quit();
```

Result

Compiling and Running the code.

```
nirjoshi@nirjoshi-MacBook-m1 support-tech-test-master % npm run broken
```

```
> support-tech-test@1.0.0 broken
> mocha ./test/brokenSauce.js
```

Broken Sauce

✓ should go to Google and click Sauce (21330ms)

1 passing (21s)

SauceLabs Test Results / Broken Google Search

Completed 1 minute ago by @oauth-joshinirmala.110... via Webdriver support-tech-test-2023-01-25T17:5... 10.15 109 Team 21s

Commands (8) Metadata

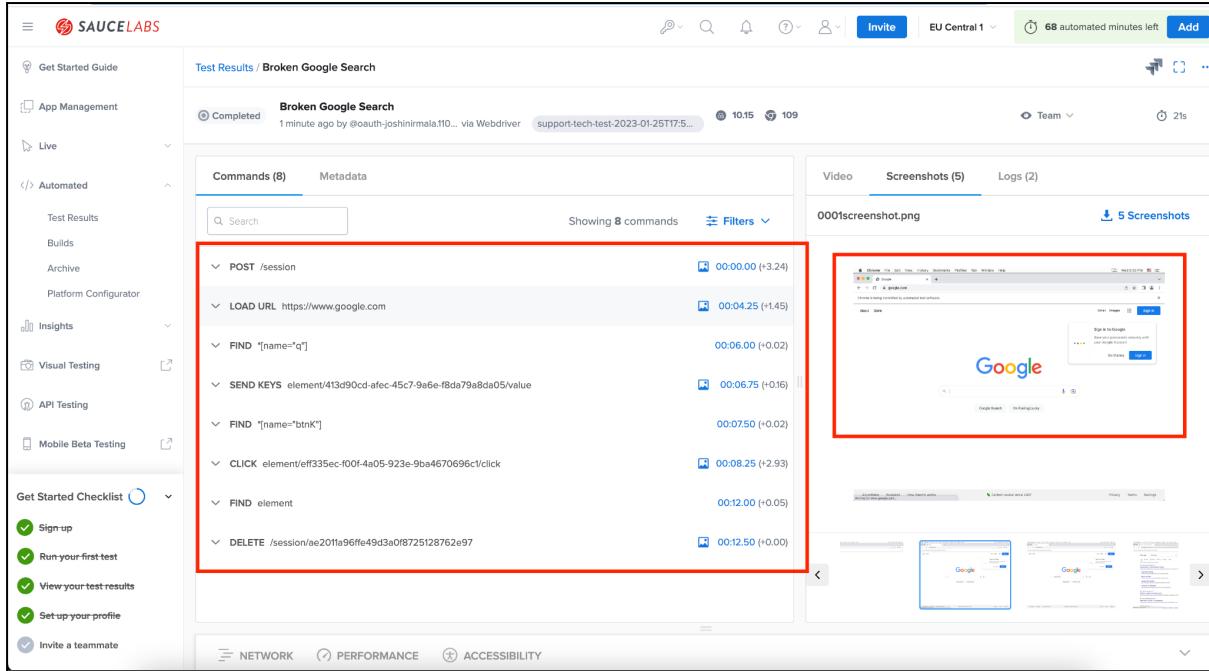
Showing 8 commands Filters

Commands:

- POST /session 00:00.00 (+3.24)
- LOAD URL https://www.google.com 00:04.25 (+1.45)
- FIND "[name=q]" 00:06.00 (+0.02)
- SEND KEYS element/413d90cd-afec-45c7-9a6e-f8da79a8da05/value 00:06.75 (+0.16)
- FIND "[name=btnK]" 00:07.50 (+0.02)
- CLICK element/eff335ec-f00f-4a05-923e-9ba4670696c1/click 00:08.25 (+2.93)
- FIND element 00:12.00 (+0.05)
- DELETE /session/e2011a96ffe49d3a0f8725128762e97 00:12.50 (+0.00)

Video Screenshots (5) Logs (2)

0001Screenshot.png 5 Screenshots



SauceLabs Test Results / Broken Google Search

Completed 1 minute ago by @oauth-joshinirmala.110... via Webdriver support-tech-test-2023-01-25T17:5... 10.15 109 Team 21s

Commands (8) Metadata

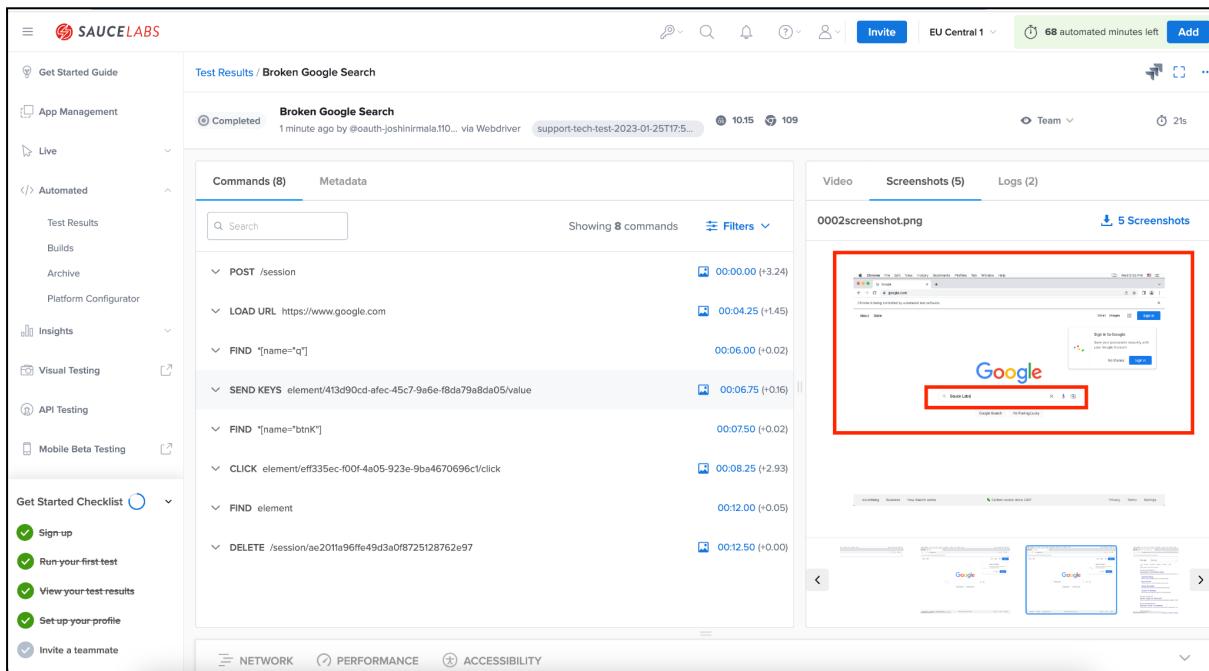
Showing 8 commands Filters

Commands:

- POST /session 00:00.00 (+3.24)
- LOAD URL https://www.google.com 00:04.25 (+1.45)
- FIND "[name=q]" 00:06.00 (+0.02)
- SEND KEYS element/413d90cd-afec-45c7-9a6e-f8da79a8da05/value 00:06.75 (+0.16)
- FIND "[name=btnK]" 00:07.50 (+0.02)
- CLICK element/eff335ec-f00f-4a05-923e-9ba4670696c1/click 00:08.25 (+2.93)
- FIND element 00:12.00 (+0.05)
- DELETE /session/e2011a96ffe49d3a0f8725128762e97 00:12.50 (+0.00)

Video Screenshots (5) Logs (2)

0002Screenshot.png 5 Screenshots



Sauce Labs Test Results / Broken Google Search

Completed 1 minute ago

Commands (8)

- POST /session
- LOAD URL https://www.google.com/search?q=Sauce+Labs
- FIND "[name=q]"
- SEND KEYS element
- FIND "[name=bttnK]"
- CLICK element
- FIND element
- DELETE /session/ae2011e96ffe49d3a0f8725128762e97

Google Sauce Labs

Chrome is being controlled by automated test software.

Ad - https://www.saucelabs.com/ | Sauce Labs® - Cross-Browser Testing

Helping Web And Mobile Apps Look, Function And Perform Exactly As They Should Every Time.

Automated Testing Spend Less Time Testing & More Time Innovating. Start Today!

Get A Free Trial Try Sauce Labs Free For 2 Days And Begin Testing In Minutes.

Explore Case Studies Learn How Sauce Labs Helps Top Businesses Achieve +185% ROI.

Solutions For Enterprise We're Revolutionizing Continuous Testing For The Top Digital Brands

Ad - https://www.weitest.net/ | WeTest - Create Your Free Account

Perform Automated Testing in Popular Frameworks, include Appium, Espresso, XCTest/XCUITest

Ad - https://www.blazemeter.com/ | Start Your Free Trial - For Enterprises

Fix performance bottlenecks with our safe & secure professional testing platform. Run...

Establishing secure connection... Selenium Testing Mobile

Internal server error 00:12.00 (+0.00)

00:12.50 (+0.00)

EU Central 1 68 automated minutes left Add

Team 21s

Screenshots (5) Logs (2)

5 Screenshots

Current Screenshot

Screenshot 4/5

This screenshot shows the Sauce Labs test results interface for a search query that failed. The search term 'Sauce Labs' was entered into the Google search bar. The results page shows the Sauce Labs logo and some descriptive text, but the search did not yield the expected results. The test command history is visible on the left, and the right side shows the browser screenshot and logs.

Sauce Labs Test Results / Broken Google Search

Completed about 5 hours ago by /oauth-joshinirmala... via Webdriver 10.15 109 EU Central 1 68 automated minutes left Add

Commands (9) Metadata

- POST /session
- LOAD URL https://www.google.com
- FIND "[name=q]"
- SEND KEYS element/cd488baa-6050-4136-aad6-6faefb35a819/value
- FIND "[name=bttnK]"
- CLICK element/e3904e62-b12d-4b12-9a86-4dd0f2e4992f/click
- FIND element
- DELETE /session/5cbe8883349c4f7c86cf873465824593
- CLICK element/31f10bf6-12ea-43ae-b437-f8d66b33875c/click

Video Screenshots (6) Logs (2)

0005screenshot.png 6 Screenshots

This screenshot shows the Sauce Labs test results interface for a search query that failed. The search term 'Sauce Labs' was entered into the Google search bar. The results page shows the Sauce Labs logo and some descriptive text, but the search did not yield the expected results. The test command history is visible on the left, and the right side shows the browser screenshot and logs.

Sauce Labs Test Results / Broken Google Search

Completed Broken Google Search 1 minute ago by @oauth-joshinirmala.110... via Webdriver 10.15 109 Team 30s

Commands (12) Metadata

Showing 12 commands Filters

video.mp4 Video Screenshots (6) Logs (2)

Commands (12)

- SEND KEYS element/c88d3867142b-4cd0-ae75-2e6c9283dcee/value 00:07.00 (+0.17)
- FIND "[name=btnK]" 00:07.75 (+0.02)
- CLICK element/7f95c9ee-a425-4d17-89b7-db9d49d2c91b/click 00:08.50 (+3.29)
- FIND element 00:12.50 (+0.05)
- CLICK element/ffe29179-5fba-4684-8e91-c73f3978c72c/click 00:13.25 (-1.94)
- FIND #headerMainNav > div > nav > ul > li.nav-menu-list-container > ul:nth-child(2) > li:nth-child(4) > div... 00:15.75 (+0.02)
- FIND #headerMainNav > div > nav > ul > li.nav-menu-list-container > ul:nth-child(2) > li:nth-child(4) > div... 00:15.75 (+0.02)
- POST actions 00:16.50 (+0.34)
- DELETE /session/8d6b9e6e9fc243c5ad04c56d2201dc8f 00:17.25 (+0.00)

Get Started Checklist

- ✓ Sign up
- ✓ Run your first test
- ✓ View your test results
- ✓ Set up your profile
- ✓ Invite a teammate

NETWORK PERFORMANCE ACCESSIBILITY

The screenshot displays the Sauce Labs Test Results interface. On the left, a sidebar contains links for Get Started Guide, App Management, Live, Automated (Test Results, Builds, Archive, Platform Configurator), Insights, Visual Testing, API Testing, and Mobile Beta Testing. Below this is a 'Get Started Checklist' with five items: Sign up, Run your first test, View your test results, Set up your profile, and Invite a teammate. The main content area shows a 'Test Results / Broken Google Search' page. At the top, it says 'Completed Broken Google Search 1 minute ago by @oauth-joshinirmala.110... via Webdriver 10.15 109 Team 30s'. Below this is a 'Commands (12)' section with a table listing each command with its duration and a small video icon. A red box highlights this entire section. To the right is a 'Video' player showing a recording of a browser session. The video player has tabs for 'Video', 'Screenshots (6)', and 'Logs (2)'. The video itself shows a browser window with the Sauce Labs Documentation page, which features a cartoon character and bookshelves. A second red box highlights the video player area. At the bottom of the main content area are buttons for 'NETWORK', 'PERFORMANCE', and 'ACCESSIBILITY'.