



# Sahi Pro

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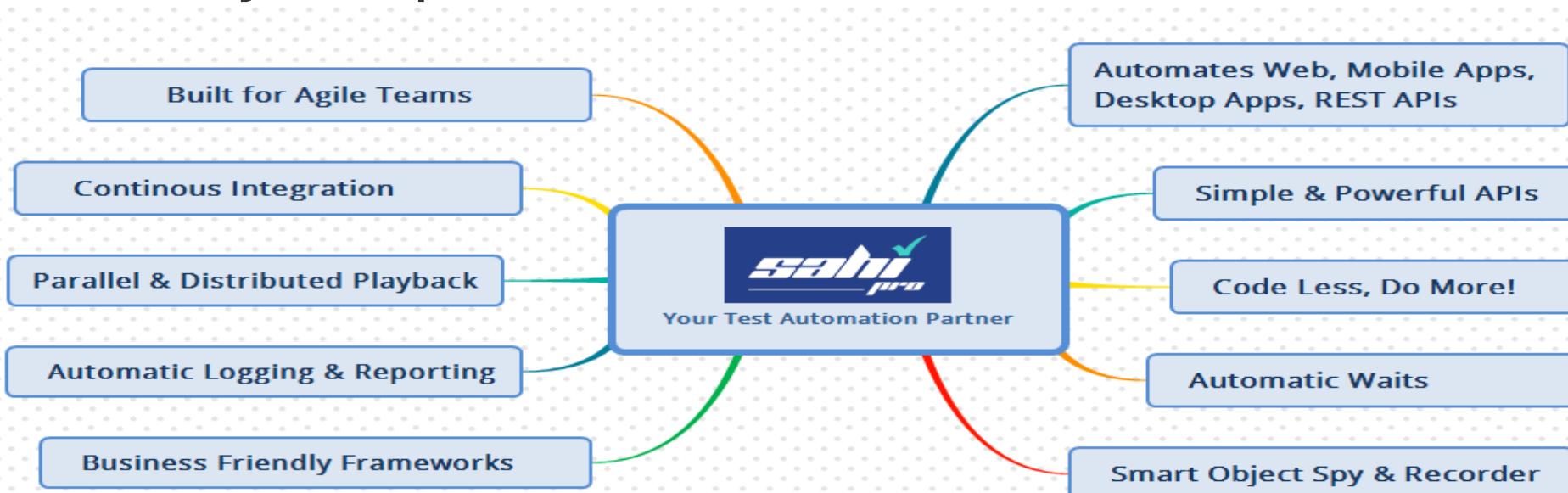
# Съдържание

- Предназначение на инструмента Sahi Pro
- Характеристики на инструмента Sahi Pro
- Реализация на тестов сценарий(демо)
- Предимства и недостатъци
- Заключение



# Предназначение на инструмента Sahi Pro

- Използва се за тестване на мобилни, настолни и уеб приложения, уебсървъри и Java приложения
- Автоматизира функционалното тестване на уеб приложения



# Характеристики на инструмента Sahi Pro

- Позволява на тестерите да тестват всяка технология на всяка платформа.
- Поддържа паралелно изпълнение на тестове
- Параметризирано тестване
- Unicode компилация
- Йерархичен изглед



# Реализация на тестов сценарий



Press the ALT key and Double Click on page to bring up the [Sahi Controller](#)  
Sahi Scripts can be recorded and played back from the Controller.

Enter start URL:

Change Resolution  Change User Agent

[Logs](#) | [Online Documentation](#)  
[Test Pages](#) | [Sample Application](#)

Controller mode:  Sahi  Java



Sahi Controller - Google Chrome

⚠ Not secure | sahi.example.com/\_s/\_spr/controller8.htm

Record Playback Clipboard Info Sahi Pro

Click ● to start recording.

Script Directory: D:/Sahi\_Pro/userdata/scripts/ ▾

Script Name: first\_script.sah

AR File:

Press CTRL key and hover mouse over any element. ⓘ

Accessor: Click

Alternatives: Hilight

Value: Set

Prefix: Hover

Mode: BROWSER Session key: sessionId

Assert List Properties Other Actions: -- Choose -- ▾

APIs List:

Evaluate expression Recorded steps Diagnose Docs Editor

Sahi-Browser ▾ → Append Highlight --Choose-- ▾ History

## Sahi Training Site

Username

Password

Not a user? [Register](#)

Press CTRL key and hover mouse over any element.

Accessor:

Alternatives:

Value:

Prefix:

Mode:  Session key:

APIs List:

## All available books

Title	In stock	Cost	Add quantity to cart
Core Java	5	Rs. 300	<input type="text" value="2"/>
Ruby for Rails	12	Rs. 200	<input type="text" value="3"/>
Python Cookbook	7	Rs. 350	<input type="text" value="1"/>

[Add](#) | [Clear](#) | [Logout](#)

## My Cart

Title	Quantity	Unit Cost	Total Cost
Core Java	2	Rs.300	Rs.600
Ruby for Rails	3	Rs.200	Rs.600
Python Cookbook	1	Rs.350	Rs.350

Grand Total: **1550**

Record Playback Clipboard Info Sahi Pro

Recording in first\_script.sah ...

Script Directory: D:/dev/sahi\_pro\_g/userdata/scripts/

Script Name: first\_script.sah

AR File:

Press CTRL key and hover mouse over any element.

Accessor: `_button("Add")` Click

Alternatives: `_button("Add")` Hilight

Value: Add Set

Prefix: Hover

Mode: BROWSER Session key: sessionId

Assert List Properties Other Actions: -- Choose --

APIs List:

Evaluate expression Recorded steps Diagnose Docs Editor

```
_button("Add")
```

Sahi-Browser Append Highlight --Choose-- History

null

Press CTRL key and hover mouse over any element.

1

My Cart

Title	Quantity	Unit Cost	Total Cost
Core Java	2	Rs.300	Rs.600
Ruby for Rails	3	Rs.200	Rs.600
Python Cookbook	1	Rs.350	Rs.350

Grand Total: 1550

2

Accessor: `_textbox("total")` Click

Alternatives: `_textbox("total")` Hilight

Value: 1550 Set

Prefix:

Mode: BROWSER Session key: sessionId Hover

3

Assert List Properties Other Actions: -- Choose --

APIs List:

Evaluate expression Recorded steps Diagnose Docs Editor

`_assertExists(_textbox("total"));  
_assertVisible(_textbox("total"));  
_assertEqual("1550", _getValue(_textbox("total")));`

4

5

6

Sahi-Browser Append Highlight --Choose-- History

true

The screenshot shows a web application titled "My Cart" with a table of items and their costs. Below the table, the "Grand Total" is displayed as 1550. To the right, the Sahi Test tool interface is open, showing assertions for the "total" text box. The assertions include checking for existence, visibility, and equality of the value "1550". The tool also includes tabs for Evaluate expression, Recorded steps, and various diagnostic and documentation links.

Record

Playback

Clipboard

Info

Sahi Pro

## Set script from file:

Script Directory: D:/Sahi\_Pro/userdata/scripts/ ▾

File: first\_script.sah

 Start URL: http://sahitest.com/demo/training/login.htm

1

2

Play

Pause

Step

Stop

Diagnose

3

## Statements:

```
_setValue(_textbox("user"), "test")
_setPassword(_password("password"), "*****")
_click(_submit("Login"))
SetValue(_textbox("q"), "2")
SetValue(_textbox("q[1]"), "3")
SetValue(_textbox("q[2]"), "1")
_click(_button("Add"))
_assertExists(_textbox("total"))
_assert(_isVisible(_textbox("total")))
_assertEqual("1550", _textbox("total").value)
_click(_button("Logout"))
----- Stopped Playback: SUCCESS -----
```

Suites List

localhost:9999/\_s/dyn/pro/DBReports

Suites

Delete Compare Consolidate Report Show Graphs Show Testcase Summary

50 Page 1 of 11

					Choose	From	To	00:00:00 000	
	Script Name	Suite Name	Base Url	Browser		Start Time	End Time	Time Taken	Sci
1	first_script.sah	http://sahit...	chrome	Apr 26, 2020 04:11:46 PM	Apr 26, 2020 04:11:54 PM	00:00:08 030			
2	test_demo.sah	http://sahit...	firefox	Apr 26, 2020 04:10:47 PM	Apr 26, 2020 04:11:01 PM	00:00:14 010			
3	test_demo.sah	http://sahit...	chrome	Apr 26, 2020 04:10:30 PM	Apr 26, 2020 04:10:38 PM	00:00:08 007			
4	test_demo.sah	http://sahit...	ie	Apr 26, 2020 04:10:08 PM	Apr 26, 2020 04:10:22 PM	00:00:14 011			
5	test_demo.sah	http://sahit...	chrome	Apr 26, 2020 04:09:55 PM	Apr 26, 2020 04:10:03 PM	00:00:08 010			
6	test_demo.sah	http://sahit...	chrome	Apr 26, 2020 04:09:45 PM	Apr 26, 2020 04:09:53 PM	00:00:08 032			

[Suites](#) | [Suite Report](#) | [Test Cases Report](#) | [Script Report](#) | [JS Code Coverage Report](#) | [Suite Analysis](#)

Script Name: first\_script.sah | Auto Refresh

Test	Total Steps	Failures	Errors	Success Rate	Time Taken	Node	Load	Browser	Status
first_script.sah	11	0	0	100 %	00:00:04 837	localhost:9999	-1	chrome	SUCCESS

Report Id: first\_script\_chrome\_\_b0c7ab3b0b933046af09f47055e05d52b741 | [Compare Logs](#)

Starting script [Expand All](#) [Collapse All](#) | [Show Failed](#) | [Show All Images](#)  | [Convert To English](#)

```
_setValue(_textbox("user"), "test") [1089 ms] [04:48:23.668 PM]
 setValue(_password("password"), "secret") [121 ms] [04:48:23.789 PM]
 click(_submit("Login")) [232 ms] [04:48:24.021 PM]
 setValue(_textbox("q"), "2") [2235 ms] [04:48:26.256 PM]
 setValue(_textbox("q[1]"), "3") [130 ms] [04:48:26.386 PM]
 setValue(_textbox("q[2]"), "1") [116 ms] [04:48:26.502 PM]
 click(_button("Add")) [230 ms] [04:48:26.732 PM]
 assertExists(_textbox("total")) [123 ms] [04:48:26.855 PM]
 assert(_isVisible(_textbox("total"))) [126 ms] [04:48:26.981 PM]
 assertEquals("1550", _textbox("total").value) [116 ms] [04:48:27.097 PM]
 click(_button("Logout")) [231 ms] [04:48:27.328 PM]
 Stopping script
```

New Open Save Create Suite Create AR Find Usage Playback Stop All Clear Break Points More A new update is available Docs Logs

Navigator scripts (103)

first\_script.sah.cs

Auto Format Create Function Show Context View Doc

```
1 _setValue(_textbox("user"), "test");
2 _setValue(_password("password"), "secret");
3 _click(_submit("Login"));
4 _setValue(_textbox("q"), "2");
5 _setValue(_textbox("q[1]"), "3");
6 _setValue(_textbox("q[2]"), "1");
7 _click(_button("Add"));
8 _assertExists(_textbox("total"));
9 _assert(_isVisible(_textbox("total")));
10 _assertEqual("1550", _textbox("total").value);
11 _click(_button("Logout"));
```

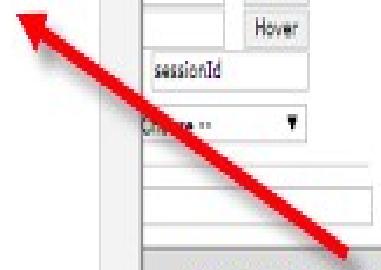
Sahi Pro

Context

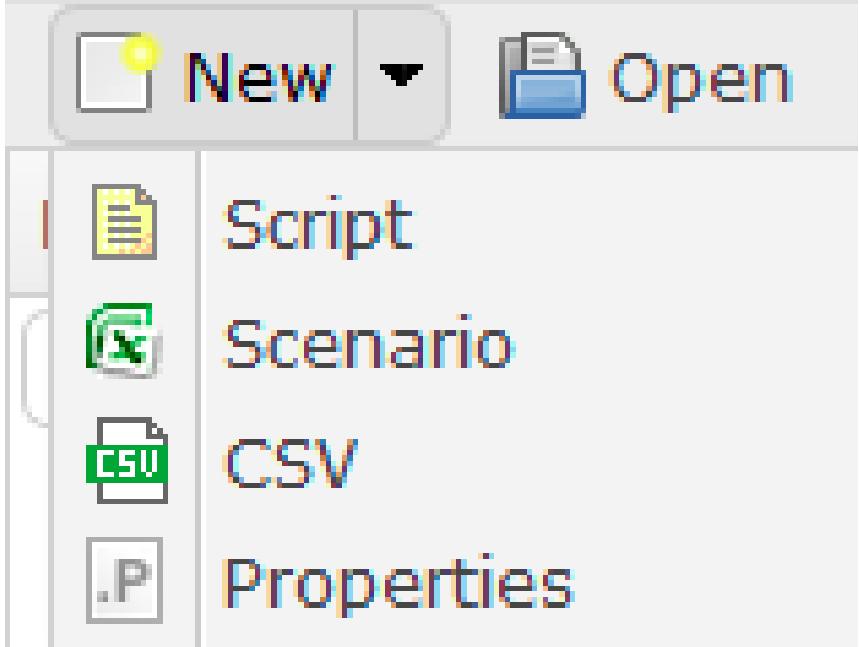
ps/ Click Highlight Set Hover sessionId

Diagnose Docs Editor

--Choose-- History



A red arrow points from the bottom right towards the 'Highlight' button in the Sahi Pro context menu.



	A	B	C	D	E	F	G
1	TestCase	Key Word	Argument 1	Argument 2			
2		<i>loadSahi</i>	\$filePath				
3							
4	My First Testcase		My testcase description. [Documentation]	Modify as needed			
5		<i>My Function</i>	my argument	my argument 2			
6							

	A	B	C	D	E	
1	TestCase	Key Word	Argument 1	Argument 2		
2		loadSahi	\$filePath			
3						
4	My First Testcase	[Documentation]	My testcase description. Modify as needed			
5		My Function	my argume			
6						
7						
8						
9						
10						
11						

- Insert row above
- Insert row below
- Insert column left
- Insert column right
- Remove row
- Remove column
- Undo
- Redo
- Run / Record
- Data Drive

TestCase	Key Word	Argument1
Check shopping cart total	[Documentation]	Smoke test for add books
	Id	
	Login	
	login	
	Logout	

## Function Details

File:  ▼

Function Name:

Arguments:

\$username

\$password

Set as field:value

## Function Details

File:  ▼

Function Name:  login

Arguments:

\$user

\$password

Set as field:value

1	TestCase	Key Word	Argument 1	Argument 2	
2		<i>loadSahi</i>	<i>first_script_lib.sah</i>		
3					
4	<i>Check for shopping cart</i>		<i>Smoke test for add books</i>		
		<i>[Documentation]</i>			
5		<i>login</i>	<i>test</i>	<i>MgkKEQBU</i>	
6		<i>addBooks</i>	2	3	1
7		<i>verifyTotal</i>	1550		
8		<i>logout</i>			
9					

**Script Name:** scenario1.s.csv | Auto Refresh 

Test	Total Steps	Failures	Errors	Success Rate	Time Taken	Node	Load	Browser	Status
scenario1.s.csv	11	0	0	100 %	00:00:05 541	localhost:9999	-1	chrome	SUCCESS

Report Id: scenario1\_chrome\_\_c66443f60fcbe04a130b2670b062c55a4593 | Compare Logs

Total Test Cases	Passed	Failed	Success Rate
1	1	0	100 %

Test Case Id	Description	Status	Time Taken
Check for shopping cart	Smoke test for add books	SUCCESS	00:00:04 364

**Starting script** [Expand All](#) [Collapse All](#) | [Show Failed](#)  | [Show All Images](#)  | [Convert To English](#)

loadSahi first\_script\_lib.sah

Check for shopping cart [Documentation] Smoke test for add books

login test MgkKEQBU

addBooks 2 3 1

[ - ] addBooks(2,3,1)

```
_setValue(_textbox("q"), 2) [1758 ms] [07:57:19.144 PM]
SetValue(_textbox("q[1]"), 3) [119 ms] [07:57:19.263 PM]
.SetValue(_textbox("q[2]"), 1) [118 ms] [07:57:19.381 PM]
.click(_button("Add")) [225 ms] [07:57:19.606 PM]
```

verifyTotal 1550

**Stopping script**



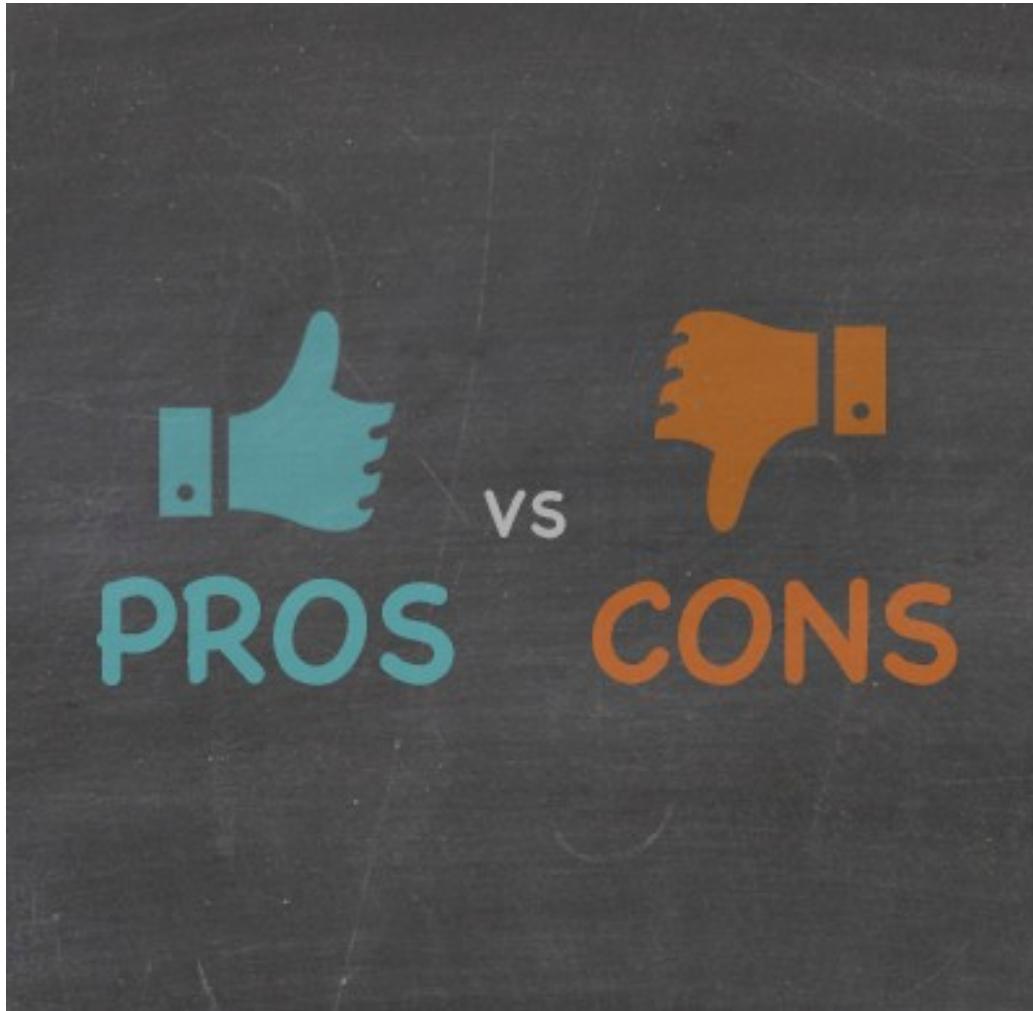
ROI Driven Automation



[sahipro.com](http://sahipro.com)

[@sahipro](https://twitter.com/sahipro)

# Предимства и недостатъци

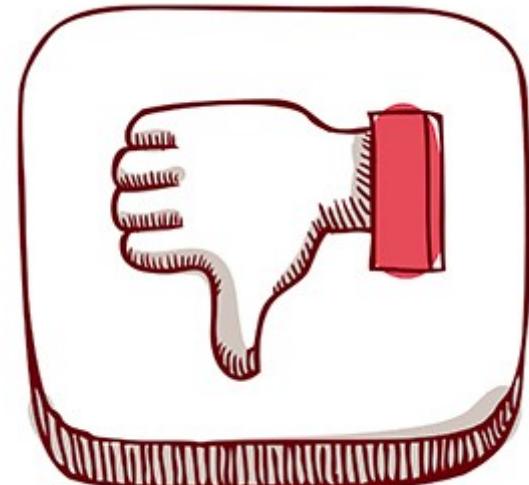


# Предимства



- Автоматизация с нулево докосване
- Бърз и точен отговор дори по време на тестовия период
- Релационните оператори осигуряват параметри лесни за разпознаване от DOM
- Бърз цикъл на разработка
- Лесна за настройка рамка
- Силни възможности за разпознаване
- Устойчиви на грешки

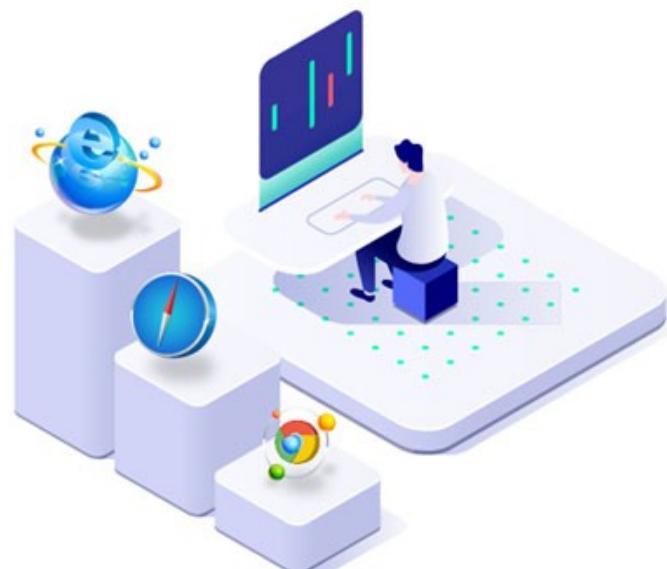
# Недостатъци



- Цената нараства всяка година
- Често разпознатите грешки са събрани на ниво пакет
- Допълнителни разходи за добавки
- Сравнително доста време за мащабна автоматизация на тестовете
- Трудно се разбира дали има грешка в скрипта или е фалшив аларма

# Заключение

- Sahi Pro е инструмент за автоматизация от корпоративен клас, който е лесен за използване и лесен за научаване. Той е ориентиран към тестерите, като същевременно се ръководи от бизнеса по своя дизайн и функционалност.





**Благодаря за вниманието!**