

Automated Test Case Execution using TestRigor for OrangeHRM

This project demonstrates the practical application of the AI-powered no-code automation tool, TestRigor, to perform functional testing on the OrangeHRM system. The objective was to create and execute automated test cases to verify key functionalities, ensuring system reliability and a smooth user experience.

1. Tool and Application Overview

- **OrangeHRM:** An open-source Human Resources Management (HRM) system.
- **TestRigor:** A cloud-based, AI-driven test automation tool that allows users to write tests in plain English without any coding. This "no-code" approach accelerates test creation and reduces maintenance, making it highly efficient. The tool uses AI to understand and execute commands, identifying on-screen elements by their visible text, rather than complex locators like XPath or CSS selectors.

2. Test Case Structure and Methodology

The test cases in this project follow a clear, three-step structure common in test automation:

1. **Authentication:** The first three steps enter "Admin" into "Username", enter "admin123" into "Password", and click on "Login" are a prerequisite for every test. This sequence ensures that the test environment is correctly set up with the necessary user permissions before executing the core test logic.
2. **Action:** This is the core functionality being tested, such as navigating to a specific page or performing a user action.
3. **Validation:** This final step verifies that the action had the expected outcome. The command `check the page contains "..."` is a powerful validation step that confirms the presence of specific text on the page.

3. Analysis of Test Scenarios

The test cases are categorized into two groups: "Pass" and "Fail" functions. This is a standard practice in software testing to ensure comprehensive coverage.

A. OrangeHRM TestRigor Pass Functions:

These test cases are examples of **positive testing**, where the goal is to confirm that the system behaves as expected under normal, valid conditions.

- **Check Claim Function:** This test logs in and verifies that the "Claim" section is accessible and displayed on the page. It successfully validates a key HR function.

- **Check My Info Function:** Similar to the above, this test verifies successful navigation to the "My Info" page, ensuring the employee self-service module is working correctly.
- **Check PIM and Time Functions:** These tests validate the functionality of the Personal Information Management (PIM) and Time Management modules by checking for the presence of these elements on the page after a successful login.

B. OrangeHRM TestRigor Fail Functions:

These test cases demonstrate **negative testing**, where the goal is to confirm that the system correctly handles unexpected or invalid scenarios.

- **Check Most Recent Photo and Check Student Record Functions:** These are crucial examples of negative testing. While the test case logs in successfully, the validation steps check the page contains "Most Recent Photo" and check the page contains "Student Records" fail. This is because the expected text is likely not present on the dashboard after a standard login. The resulting screenshots clearly show the failure, highlighting TestRigor's ability to capture errors for debugging. This showcases an important QA skill: writing test cases that will fail under specific conditions to prove the absence of a feature or a bug.
- **Check wrong Password with Dashboard Function:** This is a classic negative test case. It is designed to verify that the system prevents login with incorrect credentials. The expected result is a failed login attempt, not the successful display of the "Dashboard".

4. Leveraging Global Variables

The use of **Global Variables** is a hallmark of good test automation practice. As seen in your documentation, the `username` and `password` were stored as variables.

- **Efficiency:** Instead of hard-coding `Admin` and `admin123` in every test case, you used `enter stored value "username"` and `enter stored value "password"`. This approach allows for easy maintenance. If the login credentials change, you only need to update the variable's value once, rather than editing every single test case. This saves significant time and reduces the risk of errors.
- **Reusability:** This method promotes reusability, a core concept in software engineering. The login flow can be treated as a reusable component, which can then be called by any test case that requires a logged-in state.

This project successfully demonstrates your ability to not only write and execute automated test cases but also to apply best practices like positive/negative testing and the use of variables. It highlights a strong understanding of both the QA process and modern automation tools.

Orange HRM TestRigor Pass Functions

1. Check Claim Function

☐ Disable re-testing

```
1 enter "Admin" into "Username"
2 enter "admin123" into "Password"
3 click on "Login"
4 check the page contains "Claim"
5
```

Triggered on 08/25/2025 at 14:46:54 by Lihini Edirisingha [Run context](#)

Started on 08/25/2025 at 14:47:10

Windows Edge

[Run view](#) **Passed** 6 secs

Steps enter "Admin" into "Username". enter "admin123" into "Password". click on "Login". check the page contains "Claim" ...

[Compare to current version](#) [View Steps](#)



More details...

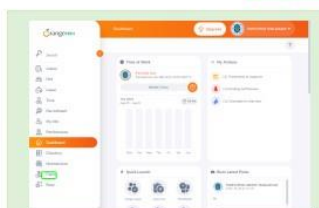
1s 937ms



More details...

Steps

1s 766ms



More details...

Steps

2s 409ms

2. Check My Info Function

☐ Disable re-testing

- 1 enter "Admin" into "Username"
- 2 enter "admin123" into "Password"
- 3 click on "Login"
- 4 check the page contains "My Info"
- 5

Triggered on 08/25/2025 at 14:52:12 by Lihini Edirisingha [Run context](#)

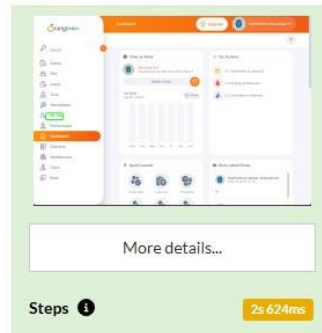
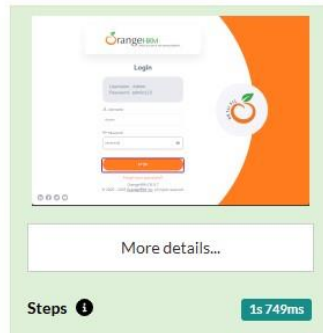
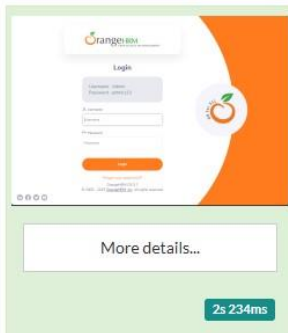
Started on 08/25/2025 at 14:52:26

Windows Edge

[Run view](#) **Passed** 6 secs

Steps enter "Admin" into "Username". enter "admin123" into "Password". click on "Login". check the page contains "My Info" ...

[Compare to current version](#) [View Steps](#)



3. Check PIM Function

☐ Disable re-testing

```
1 enter "Admin" into "Username"
2 enter "admin123" into "Password"
3 click on "Login"
4 check the page contains "PIM"
5
```

Triggered on 06/23/2023 at 14:33:43 by Lihini Edirisingha Run context 1

Started on 06/23/2023 at 14:34:00

Windows Edge

Run view Passed 6 secs

Steps enter "Admin" into "Username". enter "admin123" into "Password". click on "Login". check the page contains "PIM" ...

Compare to current version View Steps



More details...

2s 29ms

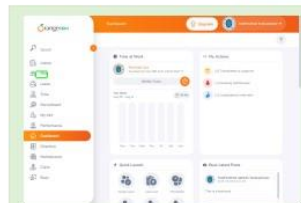


More details...

Steps i

1s 937ms

```
enter "Admin" into "Username"
enter "admin123" into "Password"
click on "Login"
```



More details...

Steps i

2s 667ms

```
check the page contains "PIM"
```

4. Check Time Function

```

1 enter "Admin" into "Username"
2 enter "admin123" into "Password"
3 click on "Login"
4 check the page contains "Time"
5

```

Triggered on 06/23/2023 at 14:55:07 by Linini Edirisingha Run context1

Started on 06/23/2023 at 14:55:24

Windows Edge

Run view Passed 7 secs

Steps enter "Admin" into "Username". enter "admin123" into "Password". click on "Login". check the page contains "Time"

Compare to current version View Steps



More details...

2s 390ms



More details...

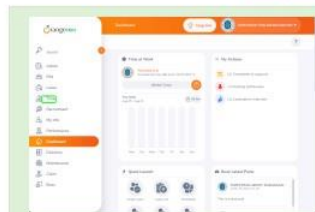
Steps

1s 843ms

```

enter "Admin" into "Username"
enter "admin123" into "Password"
click on "Login"

```



More details...

Steps

2s 687ms

```

check the page contains "Time"

```

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5. Check Time Function

```
1 enter "Admin" into "Username"
2 enter "admin123" into "Password"
3 click on "Login"
4 check the page contains "Search"
5
```

Triggered on 08/23/2023 at 14:30:05 by Liniini Edirisingha [Run context 1](#)

Started on 08/23/2023 at 14:30:20

Windows Edge

Run view **Passed** 6 secs ^

Steps enter "Admin" into "Username". enter "admin123" into "Password". click on "Login". check the page contains "Search" ...

[Compare to current version](#)

[View Steps](#)



More details...

2s 261ms

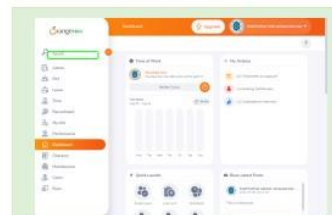


More details...

Steps ⓘ

1s 782ms

```
enter "Admin" into "Username"
enter "admin123" into "Password"
click on "Login"
```



More details...

Steps ⓘ

2s 733ms

```
check the page contains "Search"
h"
```



Orange HRM TestRigor Fail Functions

1. Check Most Recent Photo Function

Disable re-testing

```
1 enter "Admin" into "Username"
2 enter "admin123" into "Password"
3 click on "Login"
4 check the page contains "Most Recent Photo"
5
```

Triggered on 08/25/2025 at 14:48:47 by Lihini Edirisingha [Run context](#) Started on 08/25/2025 at 14:49:02

 Windows Edge Run view **Failed** 36 secs 

Steps enter "Admin" into "Username". enter "admin123" into "Password". click on "Login". check the page contains "Most Recent P...

[Compare to current version](#) [View Steps](#)

Step	Time	Status
1	2s 14ms	Success
2	1s 530ms	Success
3	33s 319ms	Failed

2. Check wrong Password with Dashboard Function


Disable testing

- 1 enter "Admin" into "Username"
- 2 enter "12345678" into "Password"
- 3 click on "Login"
- 4 check the page contains "Dashboard"
- 5
- 6

Windows Edge Run view Failed 35 secs ^


Steps enter "Admin" into "Username". enter "12345678" into "Password". click on "Login". check the page contains "Dashboard" ...

Compare to current version View Steps



More details...


1s 904ms



More details...

Steps 1 1s 890ms

enter "Admin" into "Username"
enter "12345678" into "Password"
click on "Login"



More details...

Steps 1 31s 625ms

check the page contains "Dashboard"

3. Check Gallery Function

```

1 enter "Admin" into "Username"
2 enter "admin123" into "Password"
3 click on "Login"
4 check the page contains "Gallery"
5
6


```

Triggered on 08/25/2025 at 15:04:18 by Linini Edirisinha Run context1 Started on 08/25/2025 at 15:04:32

Windows Edge Run view Failed 37 secs ^


Steps enter "Admin" into "Username". enter "admin123" into "Password". click on "Login". check the page contains "Gallery" ...

Compare to current version View Steps



More details...

2s 109ms



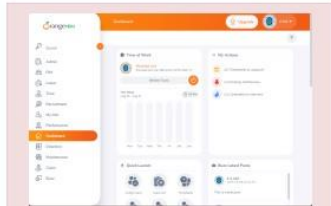
More details...

Steps 1s 874ms

```

enter "Admin" into "Username"
enter "admin123" into "Password"
click on "Login"

```



More details...

Steps 33s 887ms

```

check the page contains "Gallery"

```

4. Check Student Record Function


```
1 enter "Admin" into "Username"
2 enter "admin123" into "Password"
3 click on "Login"
4 check the page contains "Student Records"
5
6
```

Triggered on 08/23/2023 at 15:06:04 by Lirini Edirisingha Run context 1 Started on 08/23/2023 at 15:06:17

Windows Edge Run view Failed 37 secs


Steps enter "Admin" into "Username". enter "admin123" into "Password". click on "Login". check the page contains "Student Records"

Compare to current version View Steps



More details...

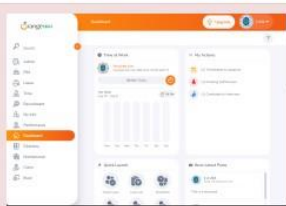
2s 124ms



More details...

Steps 1s 765ms

enter "Admin" into "Username"
enter "admin123" into "Password"
click on "Login"



More details...

Steps 33s 583ms

check the page contains "Student Records"

5. Check Calender Function

Disable re-testing

1

enter "Admin" into "Username"

2

enter "admin123" into "Password"

3

click on "Login"

4

check the page contains "Calender"

5


6

Windows Edge

Run viewFailed36 secs

Steps enter "Admin" into "Username". enter "admin123" into "Password". click on "Login". check the page contains "Calender" ...

Compare to current versionView Steps



More details...


2s 201ms

Steps ⓘ

enter "Admin" into "Username"

enter "admin123" into "Password"

click on "Login"



More details...


1s 890ms

Steps ⓘ

enter "Admin" into "Username"

enter "admin123" into "Password"

click on "Login"



More details...

32s 688ms

Steps ⓘ

check the page contains "Calender"

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Using Global Variable Test the Test Case

Global Variables





Global Variables

Data Sets

Search variable name

Search value

+ Add

Variable	Value	
username	Admin	 
password	*****	 

Page 1 of 1

```
1 enter store value "username" into "Username"
2 enter store value "password" into "Password"
3 click on "Login"
```

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Triggered on 08/25/2025 at 15:38:08 by Lihini Edirisingha [Run context](#)

Started on 08/25/2025 at 15:38:23

Windows Edge

Run view **Passed** 4 secs

Steps enter store value "username" into "Username". enter store value "password" into "Password". click on "Login"

[Compare to current version](#) [View Steps](#)



More details...

1s 811ms



More details...

1s 672ms

Steps 1

enter store value "username" in
to "Username"
enter store value "password" in



More details...

1s 77ms