



**LAPORAN TUGAS AKHIR
PENGUJIAN PERANGKAT LUNAK
MENGGUNAKAN CYPRESS**

Disusun Oleh :

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FAKULTAS TEKNIK INFORMATIKA

PROGAM STUDI INFORMATIKA

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1. Pendahuluan

1.1 Latar Belakang

Pengujian perangkat lunak merupakan tahapan penting dalam siklus pengembangan sistem untuk memastikan bahwa aplikasi berjalan sesuai dengan kebutuhan pengguna serta bebas dari kesalahan fungsional. Seiring dengan meningkatnya kompleksitas aplikasi berbasis web, diperlukan metode pengujian yang mampu menjamin kualitas sistem secara menyeluruh dan konsisten.

Aplikasi web SauceDemo yang digunakan dalam penelitian ini merupakan aplikasi simulasi e-commerce yang memiliki berbagai fitur utama, seperti autentikasi pengguna, pengelolaan produk, pengurutan data, manajemen keranjang belanja, serta proses checkout hingga penyelesaian pesanan. Banyaknya fitur tersebut menuntut proses pengujian yang sistematis agar seluruh fungsi berjalan sesuai dengan spesifikasi.

Pada laporan ini digunakan Cypress sebagai framework pengujian otomatis end-to-end (E2E). Cypress dipilih karena mampu menjalankan pengujian langsung pada browser, memiliki waktu eksekusi yang cepat, serta menyediakan hasil pengujian yang realistik sesuai dengan interaksi pengguna sebenarnya. Pengujian dilakukan mulai dari proses login hingga penyelesaian transaksi, termasuk skenario valid dan tidak valid.

Hasil dari pengujian ini didokumentasikan dalam bentuk laporan pengujian yang disertai bukti screenshot untuk setiap test case. Diharapkan laporan ini dapat memberikan gambaran menyeluruh mengenai kualitas aplikasi yang diuji serta menjadi dasar evaluasi dan pengembangan sistem selanjutnya.

2. Metodologi Pengujian

2.1 Jenis dan Pendekatan Pengujian

Jenis pengujian yang digunakan dalam penelitian ini adalah Black Box Testing, yaitu metode pengujian yang berfokus pada fungsionalitas sistem tanpa memperhatikan struktur kode internal. Pendekatan yang diterapkan adalah Automated End-to-End (E2E) Testing, di mana pengujian dilakukan secara otomatis untuk mensimulasikan alur penggunaan sistem dari awal hingga akhir.

2.2 Framework Pengujian

Framework yang digunakan adalah Cypress, yaitu framework open-source berbasis JavaScript yang dirancang khusus untuk pengujian aplikasi web. Cypress mampu melakukan pengujian secara real-time pada browser dan menyediakan fitur assertion, screenshot, serta laporan hasil pengujian secara otomatis.

2.3 Lingkungan Pengujian

Pengujian dilakukan dengan spesifikasi lingkungan sebagai berikut:

- Sistem Operasi : Windows 10
- Browser : Google Chrome
- Framework : Cypress v15.x
- Bahasa : JavaScript
- Jenis Uji : End-to-End (E2E)
- URL Pengujian : <https://www.saucedemo.com>

2.4 Alur Pengujian

Alur pengujian dimulai dengan membuka halaman login, melakukan autentikasi pengguna, mengakses katalog produk, melakukan pengurutan dan pengelolaan keranjang belanja, hingga menyelesaikan proses checkout. Setiap skenario pengujian dieksekusi secara otomatis dan divalidasi menggunakan assertion. Screenshot diambil sebagai bukti keberhasilan setiap test case.

3. Dokumentasi Pengujian

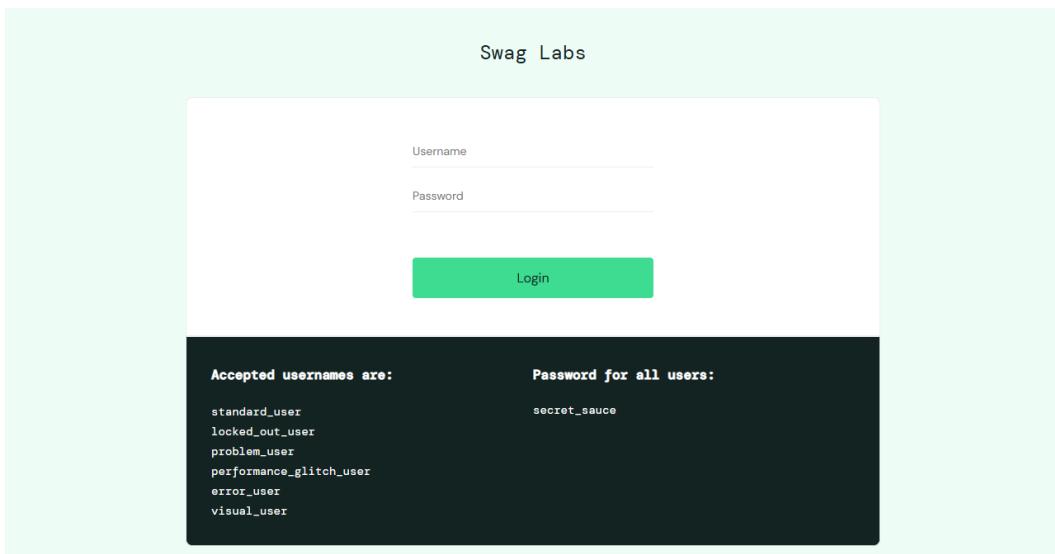
Pengujian sistem dilakukan menggunakan 30 test case yang mencakup seluruh fungsi utama aplikasi. Setiap test case dijalankan secara otomatis dan menghasilkan status PASS. Dokumentasi berikut menyajikan hasil pengujian beserta bukti screenshot.

3.1 Daftar Test Case

1. Memuat halaman login dengan benar
2. Berhasil login dengan kredensial yang valid
3. Menampilkan error untuk user yang terkunci
4. Menampilkan error untuk kredensial tidak valid
5. Logout dari sistem
6. Menampilkan item inventaris setelah login
7. Mengurutkan produk berdasarkan harga (rendah ke tinggi)
8. Mengurutkan produk berdasarkan harga (tinggi ke rendah)
9. Mengurutkan produk berdasarkan nama (A-Z)
10. Mengurutkan produk berdasarkan nama (Z-A)
11. Navigasi ke halaman detail produk
12. Kembali ke halaman produk dari detail
13. Verifikasi harga produk di halaman detail
14. Menambahkan item ke keranjang dari inventaris
15. Menghapus item dari keranjang di inventaris
16. Menambahkan item ke keranjang dari halaman detail
17. Navigasi ke halaman keranjang
18. Menampilkan item yang ditambahkan di keranjang
19. Menghapus item dari halaman keranjang
20. Melanjutkan belanja dari keranjang
21. Melanjutkan ke checkout dari keranjang
22. Menampilkan error jika data checkout kosong
23. Melanjutkan ke ringkasan checkout dengan data valid
24. Menampilkan informasi pembayaran
25. Menyelesaikan pesanan dengan sukses
26. Kembali ke beranda setelah pesanan selesai
27. Membatalkan checkout dan kembali ke keranjang
28. Membatalkan ringkasan checkout dan kembali ke produk
29. Memverifikasi tautan media sosial
30. Memverifikasi tahun pada footer

Catatan: Bukti screenshot untuk masing-masing test case ditampilkan pada bagian ini dan disusun sesuai urutan test case (TC-01 hingga TC-30).

1. Memuat halaman login dengan benar



PASS_1_harus_memuat_halaman_login_dengan_benar

2. Berhasil login dengan kredensial yang valid

Sauce Labs Backpack
carry.allTheThings() with the sleek, streamlined Sly Pack that melds uncompromising style with unequalled laptop and tablet protection.

\$29.99 Add to cart

Sauce Labs Bike Light
A red light isn't the desired state in testing but it sure helps when riding your bike at night. Water-resistant with 3 lighting modes, 1 AAA battery included.

\$9.99 Add to cart

Sauce Labs Bolt T-Shirt
Get your testing superhero on with the Sauce Labs bolt t-shirt. From American Apparel, 100% ringspun combed cotton, heather gray with red bolt.

\$15.99 Add to cart

Sauce Labs Fleece Jacket
It's not every day that you come across a midweight quarter-zip fleece jacket capable of handling everything from a relaxing day outdoors to a busy day at the office.

\$49.99 Add to cart

Sauce Labs Onesie
Rib snap infant onesie for the junior automation engineer in development. Reinforced 3-snap bottom closure, two-needle hemmed sleeves and bottom won't unravel.

\$7.99 Add to cart

Test.allTheThings() T-Shirt (Red)
This classic Sauce Labs t-shirt is perfect to wear when cozying up to your keyboard to automate a few tests. Super-soft and comfy ringspun combed cotton.

\$15.99 Add to cart



PASS_2_harus_berhasil_login_dengan_kredensial_yang_valid

3. Menampilkan error untuk user yang terkunci (user locked out)

Swag Labs

Epic sadface: Sorry, this user has been locked out.

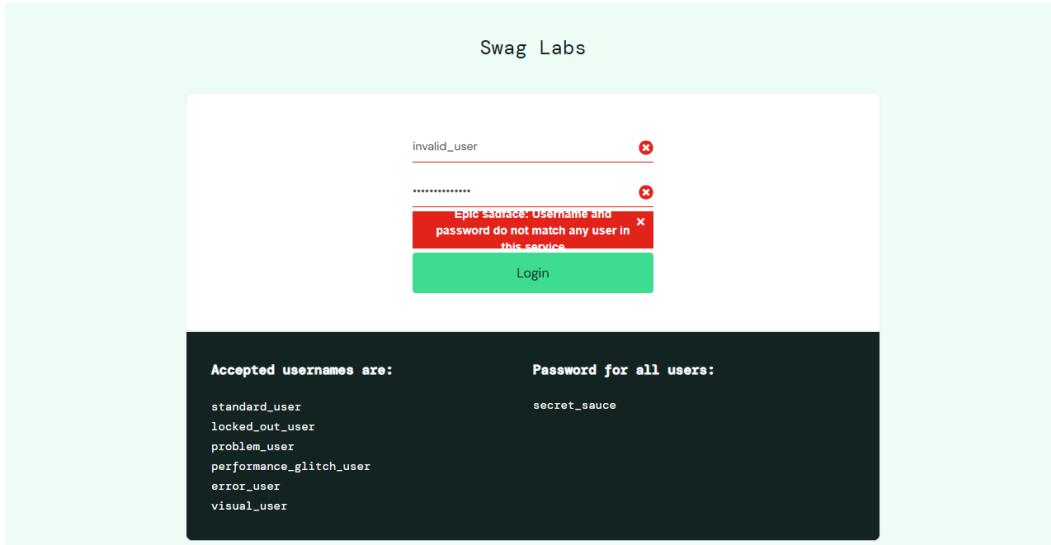
Accepted usernames are:
standard_user
locked_out_user
problem_user
performance_glitch_user
error_user
visual_user

Password for all users:
secret_sauce

Login

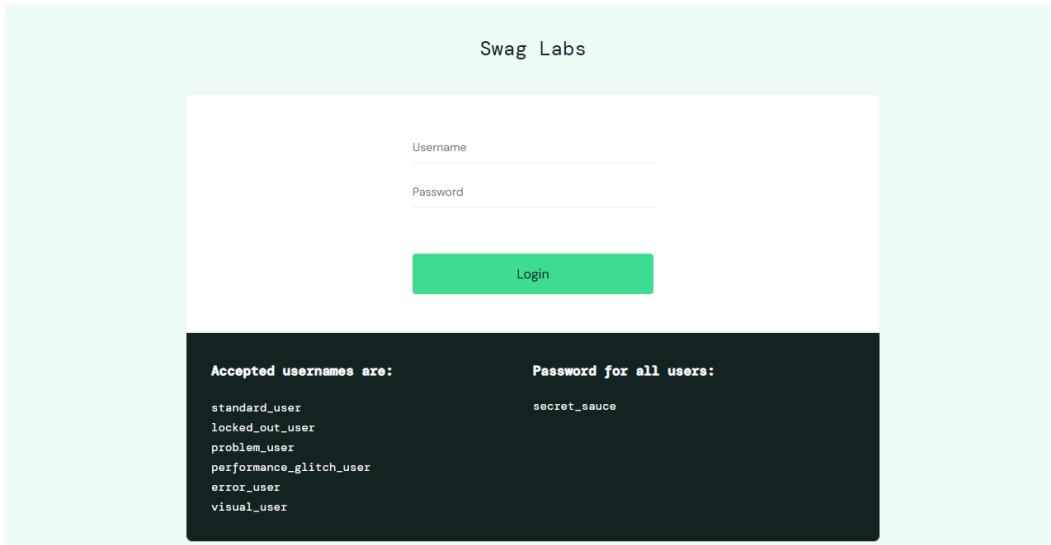
PASS_3_harus_menampilkan_error_untuk_user_yang_terkunci_locked_out

4. Harus menampilkan error untuk kredensial yang tidak valid



PASS_4_harus_menampilkan_error_untuk_kredensial_yang_tidak_valid

5. Harus berhasil logout



PASS_5_harus_berhasil_logout

6. Harus menampilkan item inventaris setelah login

The screenshot shows a product catalog page for 'Swag Labs'. The page features a header with a menu icon, the site name 'Swag Labs', and a shopping cart icon. A search bar is present with the placeholder 'Name (A to Z)'. Below the header, there's a section titled 'Products'.

The main content area displays six product cards:

- Sauce Labs Backpack**: \$29.99. Description: carry.allTheThings() with the sleek, streamlined Sly Pack that melds uncompromising style with unequalled laptop and tablet protection. [Add to cart](#)
- Sauce Labs Bike Light**: \$9.99. Description: A red light isn't the desired state in testing but it sure helps when riding your bike at night. Water-resistant with 3 lighting modes, 1 AAA battery included. [Add to cart](#)
- Sauce Labs Bolt T-Shirt**: \$15.99. Description: Get your testing superhero on with the Sauce Labs bolt T-shirt. From American Apparel, 100% ringspun combed cotton, heather gray with red bolt. [Add to cart](#)
- Sauce Labs Fleece Jacket**: \$49.99. Description: It's not every day that you come across a midweight quarter-zip fleece jacket capable of handling everything from a relaxing day outdoors to a busy day at the office. [Add to cart](#)
- Sauce Labs Onesie**: \$7.99. Description: Rib snap infant onesie for the junior automation engineer in development. Reinforced 3-snap bottom closure, two-needle hemmed sleeves and bottom won't unravel. [Add to cart](#)
- Test.allTheThings() T-Shirt (Red)**: \$15.99. Description: This classic Sauce Labs t-shirt is perfect to wear when cozying up to your keyboard to automate a few tests. Super-soft and comfy ringspun combed cotton. [Add to cart](#)

At the bottom of the page, there's a dark footer bar with social media icons for Twitter, Facebook, and LinkedIn, and copyright information: '© 2026 Sauce Labs. All Rights Reserved. [Terms of Service](#) | [Privacy Policy](#)'.

PASS_6_harus_menampilkan_item_inventaris_setelah_login

7. Harus mengurutkan produk berdasarkan Harga (rendah ke tinggi)



Products

▼ Price (low to high) ▼

**Sauce Labs Onesie**

Rib snap infant onesie for the junior automation engineer in development. Reinforced 3-snap bottom closure, two-needle hemmed sleeves and bottom won't unravel.

\$7.99

Add to cart

**Sauce Labs Bike Light**

A red light isn't the desired state in testing but it sure helps when riding your bike at night. Water-resistant with 3 lighting modes, 1 AAA battery included.

\$9.99

Add to cart

**Sauce Labs Bolt T-Shirt**

Get your testing superhero on with the Sauce Labs bolt T-shirt. From American Apparel, 100% ringspun combed cotton, heather gray with red bolt.

\$15.99

Add to cart

**Test.allTheThings() T-Shirt (Red)**

This classic Sauce Labs t-shirt is perfect to wear when cozying up to your keyboard to automate a few tests. Super-soft and comfy ringspun combed cotton.

\$15.99

Add to cart

**Sauce Labs Backpack**

carry.allTheThings() with the sleek, streamlined Sly Pack that melds uncompromising style with unequalled laptop and tablet protection.

\$29.99

Add to cart

**Sauce Labs Fleece Jacket**

It's not every day that you come across a midweight quarter-zip fleece jacket capable of handling everything from a relaxing day outdoors to a busy day at the office.

\$49.99

Add to cart

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PASS_7_harus_mengurutkan_produk_berdasarkan_harga_rendah_ke_tinggi_

8. Harus mengurutkan produk berdasarkan Harga (tinggi ke rendah)

≡

Swag Labs

Products

Price (high to low) ▾

Sauce Labs Fleece Jacket
It's not every day that you come across a midweight quarter-zip fleece jacket capable of handling everything from a relaxing day outdoors to a busy day at the office.

\$49.99

Add to cart

Sauce Labs Backpack
carry.allTheThings() with the sleek, streamlined Sly Pack that melds uncompromising style with unequalled laptop and tablet protection.

\$29.99

Add to cart

Sauce Labs Bolt T-Shirt
Get your testing superhero on with the Sauce Labs bolt T-shirt. From American Apparel, 100% ringspun combed cotton, heather gray with red bolt.

\$15.99

Add to cart

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\$15.99

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A red light isn't the desired state in testing but it sure helps when riding your bike at night. Water-resistant with 3 lighting modes, 1 AAA battery included.

\$9.99

Add to cart

Sauce Labs Onesie
Rib snap infant onesie for the junior automation engineer in development. Reinforced 3-snap bottom closure, two-needle hemmed sleeves and bottom won't unravel.

\$7.99

Add to cart

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PASS_8_harus_mengurutkan_produk_berdasarkan_harga_tinggi_ke_rendah_

9. Harus mengurutkan produk berdasarkan Nama (A ke Z)

**Sauce Labs Backpack**

carry.allTheThings() with the sleek, streamlined Sly Pack that melds uncompromising style with unequalled laptop and tablet protection.

\$29.99

Add to cart

**Sauce Labs Bike Light**

A red light isn't the desired state in testing but it sure helps when riding your bike at night. Water-resistant with 3 lighting modes, 1 AAA battery included.

\$9.99

Add to cart

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\$15.99

Add to cart

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\$49.99

Add to cart

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\$7.99

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\$15.99

Add to cart



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PASS_9_harus_mengurutkan_produk_berdasarkan_nama_a_ke_z_

10. Harus mengurutkan produk berdasarkan Nama (Z ke A)



Products

Name (Z to A) ▾

**Test.allTheThings() T-Shirt (Red)**

This classic Sauce Labs t-shirt is perfect to wear when cozying up to your keyboard to automate a few tests. Super-soft and comfy ringspun combed cotton.

\$15.99

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\$7.99

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\$15.99

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\$9.99

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carryallTheThings() with the sleek, streamlined Sly Pack that melds uncompromising style with unequalled laptop and tablet protection.

\$29.99

Add to cart

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PASS_10_harus_mengurutkan_produk_berdasarkan_nama_z_ke_a

11. Harus menavigasi ke halaman detail produk

[← Back to products](#)**Sauce Labs Backpack**

carry.allTheThings() with the sleek, streamlined Sly Pack that melds uncompromising style with unequalled laptop and tablet protection.

\$29.99

[Add to cart](#)

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PASS_11_harus_menavigasi_ke_halaman_detail_produk

12. Harus kembali ke produk dari halaman detail

**Sauce Labs Backpack**

carry.allTheThings() with the sleek, streamlined Sly Pack that melds uncompromising style with unequalled laptop and tablet protection.

\$29.99

Add to cart

**Sauce Labs Bike Light**

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\$9.99

Add to cart

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\$15.99

Add to cart

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\$49.99

Add to cart

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\$7.99

Add to cart

**Test.allTheThings() T-Shirt (Red)**

This classic Sauce Labs t-shirt is perfect to wear when cozying up to your keyboard to automate a few tests. Super-soft and comfy ringspun combed cotton.

\$15.99

Add to cart



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PASS_12_harus_kembali_ke_produk_dari_halaman_detail

13. Harus memverifikasi harga produk yang benar di halaman di halaman detail

[← Back to products](#)**Sauce Labs Backpack**

carry.allTheThings() with the sleek, streamlined Sly Pack that melds uncompromising style with unequalled laptop and tablet protection.

\$29.99

[Add to cart](#)

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PASS_13_harus_memverifikasi_harga_produk_yang_benar_di_halaman_detail

14. Harus menambahkan item ke keranjang dari halaman inventaris

**Sauce Labs Backpack**

carry.allTheThings() with the sleek, streamlined Sly Pack that melds uncompromising style with unequalled laptop and tablet protection.

\$29.99

[Remove](#)**Sauce Labs Bike Light**

A red light isn't the desired state in testing but it sure helps when riding your bike at night. Water-resistant with 3 lighting modes, 1 AAA battery included.

\$9.99

[Add to cart](#)**Sauce Labs Bolt T-Shirt**

Get your testing superhero on with the Sauce Labs bolt T-shirt. From American Apparel, 100% ringspun combed cotton, heather gray with red bolt.

\$15.99

[Add to cart](#)**Sauce Labs Fleece Jacket**

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\$49.99

[Add to cart](#)**Sauce Labs Onesie**

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\$7.99

[Add to cart](#)**Test.allTheThings() T-Shirt (Red)**

This classic Sauce Labs t-shirt is perfect to wear when cozying up to your keyboard to automate a few tests. Super-soft and comfy ringspun combed cotton.

\$15.99

[Add to cart](#)

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PASS_14_harus_menambahkan_item_ke_keranjang_dari_halaman_inventaris

15. Harus menghapus item dari keranjang dari halaman inventaris

**Sauce Labs Backpack**

carry.allTheThings() with the sleek, streamlined Sly Pack that melds uncompromising style with unequalled laptop and tablet protection.

\$29.99

Add to cart

**Sauce Labs Bike Light**

A red light isn't the desired state in testing but it sure helps when riding your bike at night. Water-resistant with 3 lighting modes, 1 AAA battery included.

\$9.99

Add to cart

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\$15.99

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\$49.99

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\$7.99

Add to cart

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\$15.99

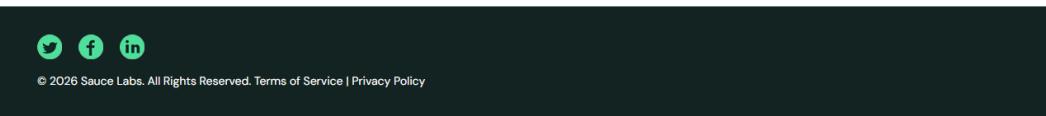
Add to cart



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PASS_15_harus_menghapus_item_dari_keranjang_dari_halaman_inventaris

16. Harus menambahkan item ke keranjang dari halaman detail



PASS_16_harus_menambahkan_item_ke_keranjang_dari_halaman_detail

17. Harus menavigasi ke halaman keranjang



PASS_17_harus_menavigasi_ke_halaman_keranjang

18. Harus menampilkan item yang ditambahkan di keranjang

The screenshot shows a shopping cart page from 'Swag Labs'. At the top, there's a navigation bar with a menu icon, the 'Swag Labs' logo, and a shopping cart icon with a red notification badge containing the number '1'. Below the header, the text 'Your Cart' is displayed. A table follows, with columns for 'QTY' and 'Description'. There is one item listed: '1 Sauce Labs Backpack'. The description reads: 'carry.allTheThings() with the sleek, streamlined Sly Pack that melds uncompromising style with unequalled laptop and tablet protection.' To the right of the product details, the price '\$29.99' is shown, and to the far right of the row is a red 'Remove' button. At the bottom of the page, there are two buttons: a white 'Continue Shopping' button on the left and a green 'Checkout' button on the right. The footer of the page contains social media icons for Twitter, Facebook, and LinkedIn, along with the copyright notice '© 2026 Sauce Labs. All Rights Reserved. Terms of Service | Privacy Policy'.

PASS_18_harus_menampilkan_item_yang_ditambahkan_di_keranjang

19. Harus menghapus item dari halaman keranjang



Your Cart

QTY Description

[Continue Shopping](#)[Checkout](#)© 2026 Sauce Labs. All Rights Reserved. [Terms of Service](#) | [Privacy Policy](#)

PASS_19_harus_menghapus_item_dari_halaman_keranjang

20. Harus melanjutkan belanja dari keranjang

**Sauce Labs Backpack**

carry.allTheThings() with the sleek, streamlined Sly Pack that melds uncompromising style with unequalled laptop and tablet protection.

\$29.99

Add to cart

**Sauce Labs Bike Light**

A red light isn't the desired state in testing but it sure helps when riding your bike at night. Water-resistant with 3 lighting modes, 1 AAA battery included.

\$9.99

Add to cart

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Add to cart

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Rib snap infant onesie for the junior automation engineer in development. Reinforced 3-snap bottom closure, two-needle hemmed sleeves and bottom won't unravel.

\$7.99

Add to cart

**Test.allTheThings() T-Shirt (Red)**

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\$15.99

Add to cart



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PASS_20_harus_melanjutkan_belanja_dari_keranjang

21. Harus melanjutkan ke checkout dari keranjang



Checkout: Your Information

First Name
Last Name
Zip/Postal Code

[Cancel](#)[Continue](#)© 2026 Sauce Labs. All Rights Reserved. [Terms of Service](#) | [Privacy Policy](#)

PASS_21_harus_melanjutkan_ke_checkout_dari_keranjang

22. Harus menampilkan error jika info checkout hilang



Checkout: Your Information

First Name ×

Last Name ×

Zip/Postal Code ×

Error: First Name is required ×

[Cancel](#)

[Continue](#)



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PASS_22_harus_menampilkan_error_jika_info_checkout_hilang

23. Harus melanjutkan ke ringkasan checkout dengan info valid



Checkout: Overview

QTY Description

1 Sauce Labs Backpack

carry.allTheThings() with the sleek, streamlined Sly Pack that melds uncompromising style with unequalled laptop and tablet protection.

\$29.99

Payment Information:

SauceCard #31337

Shipping Information:

Free Pony Express Delivery!

Price Total

Item total: \$29.99

Tax: \$2.40

Total: \$32.39[Cancel](#)[Finish](#)© 2026 Sauce Labs. All Rights Reserved. [Terms of Service](#) | [Privacy Policy](#)

PASS_23_harus_melanjutkan_ke_ringkasan_checkout_dengan_info_valid

24. Harus menampilkan info pembayaran di ringkasan



Checkout: Overview

QTY Description

1 Sauce Labs Backpack

carry.allTheThings() with the sleek, streamlined Sly Pack that melds uncompromising style with unequalled laptop and tablet protection.

\$29.99

Payment Information:

SauceCard #31337

Shipping Information:

Free Pony Express Delivery!

Price Total

Item total: \$29.99

Tax: \$2.40

Total: \$32.39[Cancel](#)[Finish](#)© 2026 Sauce Labs. All Rights Reserved. [Terms of Service](#) | [Privacy Policy](#)

PASS_24_harus_menampilkan_info_pembayaran_di_ringkasan

25. Harus menyelesaikan pesanan dengan sukses



Checkout: Complete!



Thank you for your order!

Your order has been dispatched, and will arrive just as fast as the pony can get there!

[Back Home](#)



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PASS_25_harus_menyelesaikan_pesanan_dengan_sukses

26. Harus kembali ke beranda setelah pesanan selesai



Products

Name (A to Z) ▾

**Sauce Labs Backpack**

carry.allTheThings() with the sleek, streamlined Sly Pack that melds uncompromising style with unequalled laptop and tablet protection.

\$29.99

Add to cart

**Sauce Labs Bike Light**

A red light isn't the desired state in testing but it sure helps when riding your bike at night. Water-resistant with 3 lighting modes, 1 AAA battery included.

\$9.99

Add to cart

**Sauce Labs Bolt T-Shirt**

Get your testing superhero on with the Sauce Labs bolt T-shirt. From American Apparel, 100% ringspun combed cotton, heather gray with red bolt.

\$15.99

Add to cart

**Sauce Labs Fleece Jacket**

It's not every day that you come across a midweight quarter-zip fleece jacket capable of handling everything from a relaxing day outdoors to a busy day at the office.

\$49.99

Add to cart

**Sauce Labs Onesie**

Rib snap infant onesie for the junior automation engineer in development. Reinforced 3-snap bottom closure, two-needle hemmed sleeves and bottom won't unravel.

\$7.99

Add to cart

**Test.allTheThings() T-Shirt (Red)**

This classic Sauce Labs t-shirt is perfect to wear when cozying up to your keyboard to automate a few tests. Super-soft and comfy ringspun combed cotton.

\$15.99

Add to cart

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PASS_26_harus_kembali_ke_beranda_setelah_pesanan_selesai

27. Harus membatalkan checkout dan kembali ke keranjang



Your Cart

QTY Description

[Continue Shopping](#)[Checkout](#)© 2026 Sauce Labs. All Rights Reserved. [Terms of Service](#) | [Privacy Policy](#)

PASS_27_harus_membatalkan_checkout_dan_kembali_ke_keranjang

28. Harus membatalkan ringkasan checkout dan kembali ke produk

**Sauce Labs Backpack**

carry.allTheThings() with the sleek, streamlined Sly Pack that melds uncompromising style with unequalled laptop and tablet protection.

\$29.99

Add to cart

**Sauce Labs Bike Light**

A red light isn't the desired state in testing but it sure helps when riding your bike at night. Water-resistant with 3 lighting modes, 1 AAA battery included.

\$9.99

Add to cart

**Sauce Labs Bolt T-Shirt**

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\$15.99

Add to cart

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\$49.99

Add to cart

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\$7.99

Add to cart

**Test.allTheThings() T-Shirt (Red)**

This classic Sauce Labs t-shirt is perfect to wear when cozying up to your keyboard to automate a few tests. Super-soft and comfy ringspun combed cotton.

\$15.99

Add to cart



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PASS_28_harus_membatalkan_ringkasan_checkout_dan_kembali_ke_produk

29. Harus memiliki tautan media sosial yang berfungsi (cek visibilitas)

**Sauce Labs Backpack**

carry.allTheThings() with the sleek, streamlined Sly Pack that melds uncompromising style with unequalled laptop and tablet protection.

\$29.99

Add to cart

**Sauce Labs Bike Light**

A red light isn't the desired state in testing but it sure helps when riding your bike at night. Water-resistant with 3 lighting modes, 1 AAA battery included.

\$9.99

Add to cart

**Sauce Labs Bolt T-Shirt**

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\$15.99

Add to cart

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\$49.99

Add to cart

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\$7.99

Add to cart

**Test.allTheThings() T-Shirt (Red)**

This classic Sauce Labs t-shirt is perfect to wear when cozying up to your keyboard to automate a few tests. Super-soft and comfy ringspun combed cotton.

\$15.99

Add to cart



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PASS_29_harus_memiliki_tautan_media_sosial_yang_berfungsi_cek_visibilitas_

30. Harus menampilkan tahun yang benar di footer copy

≡

Swag Labs

Products

Name (A to Z)

\$29.99 Add to cart	\$9.99 Add to cart
\$15.99 Add to cart	\$49.99 Add to cart
\$7.99 Add to cart	\$15.99 Add to cart

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PASS_30_harus_menampilkan_tahun_yang_benar_di_footer_copy

4. Temuan Bugs

Berdasarkan hasil pengujian terhadap 30 skenario pengujian yang telah dilakukan, tidak ditemukan bug fungsional kritis pada aplikasi SauceDemo. Seluruh fitur utama berjalan sesuai dengan hasil yang diharapkan dan mampu menangani skenario penggunaan normal maupun kondisi kesalahan (invalid input).

Meskipun demikian, pengujian lanjutan seperti pengujian performa dan keamanan tetap disarankan untuk memastikan kualitas sistem secara lebih menyeluruh.

5. Pengelolaan Proyek Pengujian Menggunakan Trello

5.1 Tujuan Penggunaan Trello

Dalam pelaksanaan proyek pengujian perangkat lunak, diperlukan tools manajemen proyek untuk mengatur pembagian tugas, memantau progres pengujian, serta

mendokumentasikan aktivitas pengujian secara sistematis. Oleh karena itu, pada proyek ini digunakan Trello sebagai tools manajemen proyek berbasis Kanban.

Trello dipilih karena memiliki konsep yang sederhana, visual, dan mudah digunakan, serta memiliki kesamaan konsep dengan Jira dalam hal pengelolaan task, monitoring progres, dan kolaborasi tim. Penggunaan Trello pada proyek ini berperan sebagai sarana pendukung manajemen pengujian yang terintegrasi dengan proses pengujian otomatis menggunakan Cypress.

5.2 Struktur Board Pengujian

Berdasarkan implementasi Trello pada proyek ini, struktur board pengujian dibagi ke dalam beberapa list utama, yaitu:

1. Arsip

Digunakan untuk menyimpan informasi pendukung proyek, seperti URL repository Git dan link website yang diuji.

2. List Anggota Tim

List dibuat berdasarkan nama anggota tim, yaitu Dimas Aditya Saputra, Fendi Saputra, dan Adisti Khairunisa. Setiap list berisi card yang merepresentasikan test case yang menjadi tanggung jawab masing-masing anggota.

Dalam test case setiap orang di wajibkan menjalankan test case sebanyak 10 test case.

The screenshot shows a Trello board titled "Cypress". It features four main lists: "ARSIP", "Dimas Aditya Saputra", "Fendi", and "Adisti".

- ARSIP:** Contains two cards: "URL GIT" and "Link Web Test".
- Dimas Aditya Saputra:** Contains four cards: "[QA-01] Validasi Halaman Login" (due Dec 25, 2025), "[QA-02] Login Berhasil" (due Dec 24, 2025), "[QA-03] Login User Terkunci" (due Dec 24, 2025), and "[QA-04] Login Kredensial Salah" (due Dec 24, 2025).
- Fendi:** Contains five cards: "[QA-11] Navigasi ke Detail Produk" (due Dec 24, 2025), "[QA-12] Kembali dari Detail Produk" (due Dec 24, 2025), "[QA-13] Verifikasi Harga di Detail" (due Dec 24, 2025), "[QA-14] Add to Cart (Home Page)" (due Dec 24, 2025), and "[QA-15] Cek Info Pembayaran" (due Dec 24, 2025).
- Adisti:** Contains four cards: "[QA-21] Masuk ke Checkout" (due Dec 24, 2025), "[QA-22] Validasi Form Kosong" (due Dec 24, 2025), "[QA-23] Isi Informasi Valid" (due Dec 24, 2025), and "[QA-24] Cek Info Pembayaran" (due Dec 24, 2025).

At the bottom of the board, there are navigation buttons: "Inbox", "Planner", "Board", and "Switch boards". A "2026" watermark is visible in the bottom right corner.

Pengelolaan Proyek Pengujian menggunakan website Trello

5.3 Pengelolaan Test Case sebagai Card

Setiap test case pada proyek ini direpresentasikan dalam bentuk **card Trello** dengan format penamaan sebagai berikut:

[QA-XX] Deskripsi Test Case

Contoh implementasi:

- [QA-01] Validasi Halaman Login

The screenshot shows a Trello card titled "[QA-01] Validasi Halaman Login". The card has a green checkmark icon. It includes fields for "+ Add", "Labels", "Checklist", "Members", and "Attachment". The "Due date" field shows "Dec 25, 2025, 7:00 PM Complete". The "Description" field contains the text: "Memastikan halaman login dapat dimuat dengan baik, logo terlihat, dan judul halaman sesuai \"Swag Labs\"." The "Checklist" section is currently empty. On the right side, there is a "Comments and activity" sidebar showing several recent actions by user "Dimas Saputra":

- Added Checklist to this card (Dec 24, 2025, 7:53 PM)
- Marked this card as complete (Dec 24, 2025, 7:53 PM)
- Changed the due date of this card to Dec 25, 2025 at 7:00 PM (Dec 24, 2025, 7:53 PM)
- Marked this card as incomplete (Dec 24, 2025, 7:53 PM)
- Marked this card as complete (Dec 24, 2025, 7:53 PM)
- Marked this card as incomplete (Dec 24, 2025, 7:53 PM)

A "2023" watermark is visible in the bottom right corner.

Validasi Halaman Login

- [QA-11] Navigasi ke Detail Produk

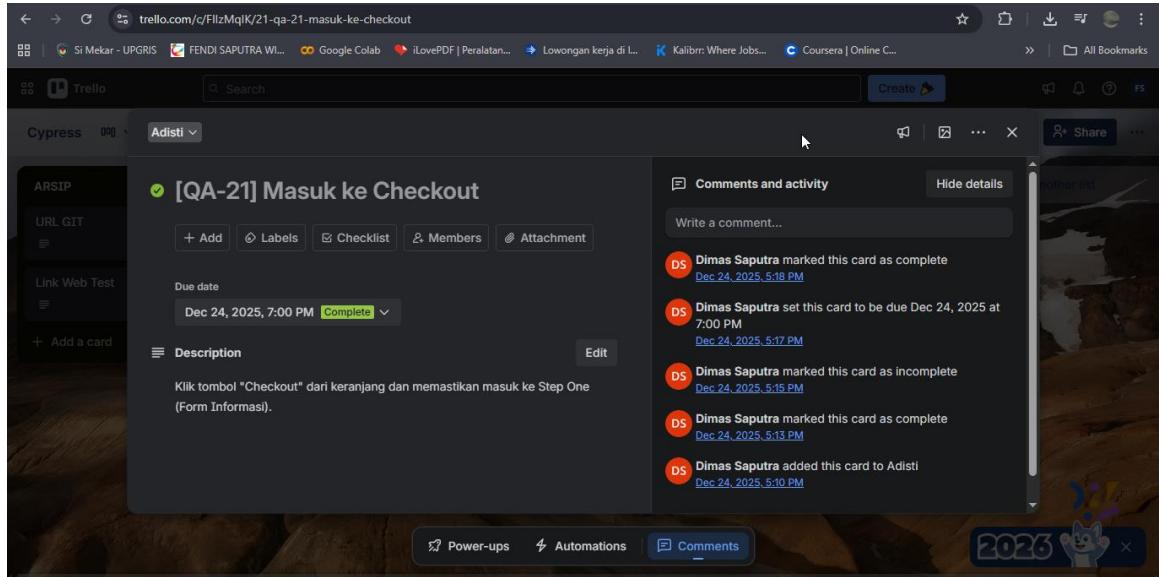
The screenshot shows a Trello card titled "[QA-11] Navigasi ke Detail Produk". The card has a green checkmark icon. It includes fields for "+ Add", "Labels", "Checklist", "Members", and "Attachment". The "Due date" field shows "Dec 24, 2025, 7:00 PM Complete". The "Description" field contains the text: "Memastikan klik pada nama produk di inventory mengarahkan user ke halaman detail produk tersebut." The "Checklist" section is currently empty. On the right side, there is a "Comments and activity" sidebar showing several recent actions by user "Dimas Saputra":

- Marked this card as complete (Dec 24, 2025, 5:18 PM)
- Set this card to be due Dec 24, 2025 at 7:00 PM (Dec 24, 2025, 5:16 PM)
- Marked this card as incomplete (Dec 24, 2025, 5:15 PM)
- Marked this card as complete (Dec 24, 2025, 5:13 PM)
- Added this card to the "Fendi" board (Dec 24, 2025, 5:08 PM)

A "2023" watermark is visible in the bottom right corner.

Navigasi ke Detail Produk

- [QA-21] Masuk ke Checkout



Masuk ke Checkout

Pendekatan ini memudahkan identifikasi test case serta mempermudah pemetaan antara hasil pengujian otomatis menggunakan Cypress dengan dokumentasi pengujian yang dikelola melalui Trello.

5.4 Detail Card dan Aktivitas Pengujian

Setiap card Trello dilengkapi dengan beberapa informasi pendukung, antara lain:

- Description, yang berisi penjelasan singkat mengenai tujuan dan skenario pengujian
- Due Date, sebagai batas waktu penyelesaian pengujian
- Checklist, yang digunakan untuk mencatat langkah-langkah pengujian
- Status Complete, yang menandakan bahwa test case telah selesai diuji

Berdasarkan hasil pengamatan pada board Trello, seluruh test case telah diberi status Complete, yang menunjukkan bahwa seluruh skenario pengujian telah berhasil dieksekusi.

5.5 Monitoring Progres dan Kolaborasi Tim

Monitoring progres pengujian dilakukan melalui tampilan board Trello yang menampilkan status setiap card secara real-time. Riwayat aktivitas pada setiap card juga

memungkinkan tim untuk melacak perubahan status, pembaruan jadwal, serta penyelesaian tugas oleh masing-masing anggota.

Dengan adanya pembagian tugas yang jelas dan pemantauan progres yang transparan, koordinasi antar anggota tim dapat berjalan dengan efektif selama proses pengujian berlangsung.

5.6 Keterkaitan Trello dengan Pengujian Cypress

Pada proyek ini, Cypress digunakan sebagai tools pengujian otomatis end-to-end (E2E), sedangkan Trello digunakan sebagai tools pendukung manajemen proyek. Hasil pengujian yang dijalankan menggunakan Cypress kemudian direfleksikan ke dalam Trello melalui pembaruan status card.

Pendekatan ini memastikan bahwa proses pengujian terdokumentasi dengan baik, baik dari sisi teknis pengujian maupun dari sisi manajemen proyek.

5.7 Kesimpulan Pengelolaan Proyek

Berdasarkan implementasi yang telah dilakukan, penggunaan Trello dalam proyek pengujian perangkat lunak ini memberikan manfaat dalam mengelola test case, membagi tugas pengujian, serta memantau progres proyek secara terstruktur. Dengan demikian, Trello berperan sebagai tools manajemen proyek yang efektif dan mendukung penerapan praktik Quality Assurance secara profesional.

6. Penutup

6.1 Kesimpulan

Berdasarkan hasil pengujian perangkat lunak menggunakan framework Cypress, dapat disimpulkan bahwa aplikasi web SauceDemo telah berfungsi dengan baik sesuai dengan kebutuhan sistem. Seluruh skenario pengujian yang dijalankan berhasil dilewati dengan status PASS, menunjukkan bahwa sistem mampu menangani proses autentikasi, pengelolaan produk, manajemen keranjang, serta proses checkout secara optimal.

Penggunaan Cypress terbukti efektif dalam melakukan pengujian otomatis end-to-end karena mampu menghasilkan pengujian yang cepat, konsisten, dan terdokumentasi dengan baik. Selain itu, pemanfaatan Trello sebagai tools manajemen proyek membantu tim dalam mengelola aktivitas pengujian secara terstruktur dan kolaboratif.

6.2 Saran

Untuk pengembangan selanjutnya, disarankan agar dilakukan:

- Pengujian performa untuk mengetahui ketahanan sistem terhadap beban tinggi

- Pengujian keamanan untuk mengidentifikasi potensi celah keamanan
- Integrasi pengujian otomatis ke dalam pipeline CI/CD

Dengan penerapan pengujian yang berkelanjutan dan pengelolaan proyek yang terstruktur, kualitas dan keandalan sistem dapat terus ditingkatkan sehingga aplikasi mampu memberikan layanan yang optimal kepada pengguna serta mendukung proses pengembangan sistem yang lebih efektif dan berkelanjutan.

<https://github.com/dimsaditysap/cypress.git>