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Sauce Demo Website Test Automation

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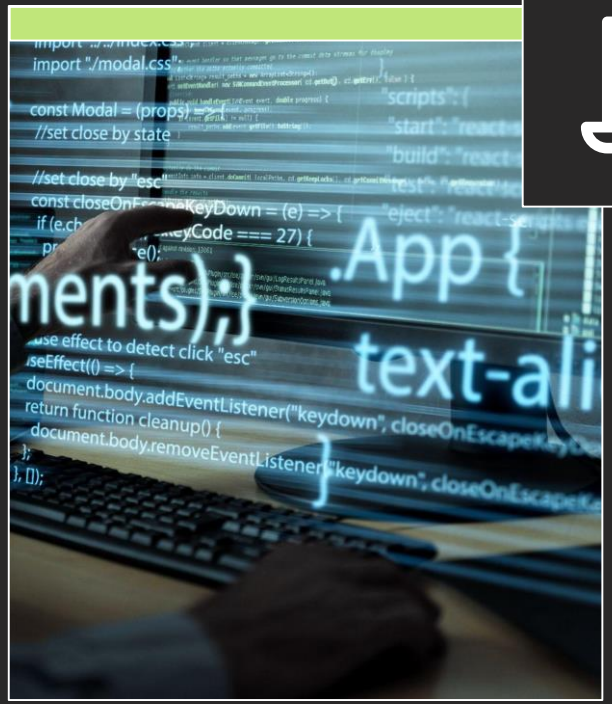

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What is Web Test Automation?

What is Web Test Automation?

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Web test automation involves the use of specialized tools and frameworks to automate the testing of web applications.

Instead of manually executing repetitive test cases, automation allows us to streamline the testing process, saving time and improving efficiency.

Web test automation is vital in modern software development, enhancing the speed, accuracy, and reliability of testing processes.

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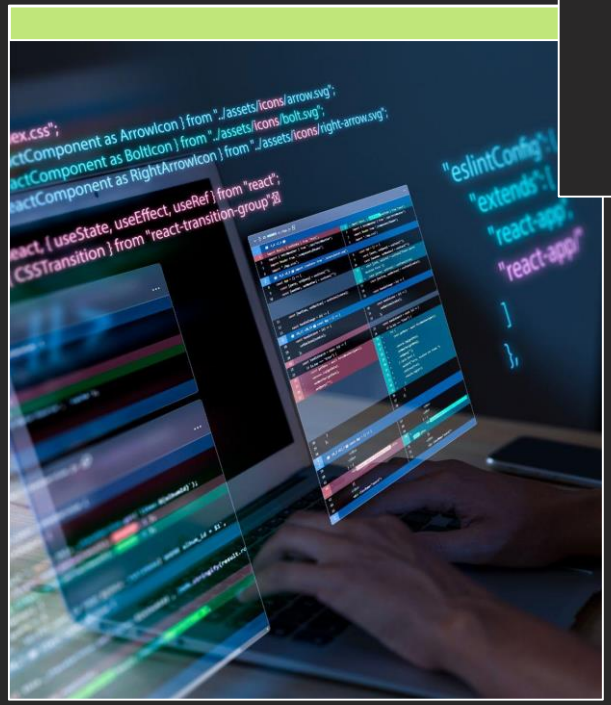

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Why is Web Test Automation Important?

Why is Web Test Automation Important?

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- **Efficiency and Speed**
- **Repeatability**
- **Regression Testing**
- **Scalability**
- **Parallel Execution**
- **Faster Feedback**
- **Continuous Integration and Continuous Delivery (CI/CD)**
- **Consistency and Accuracy**

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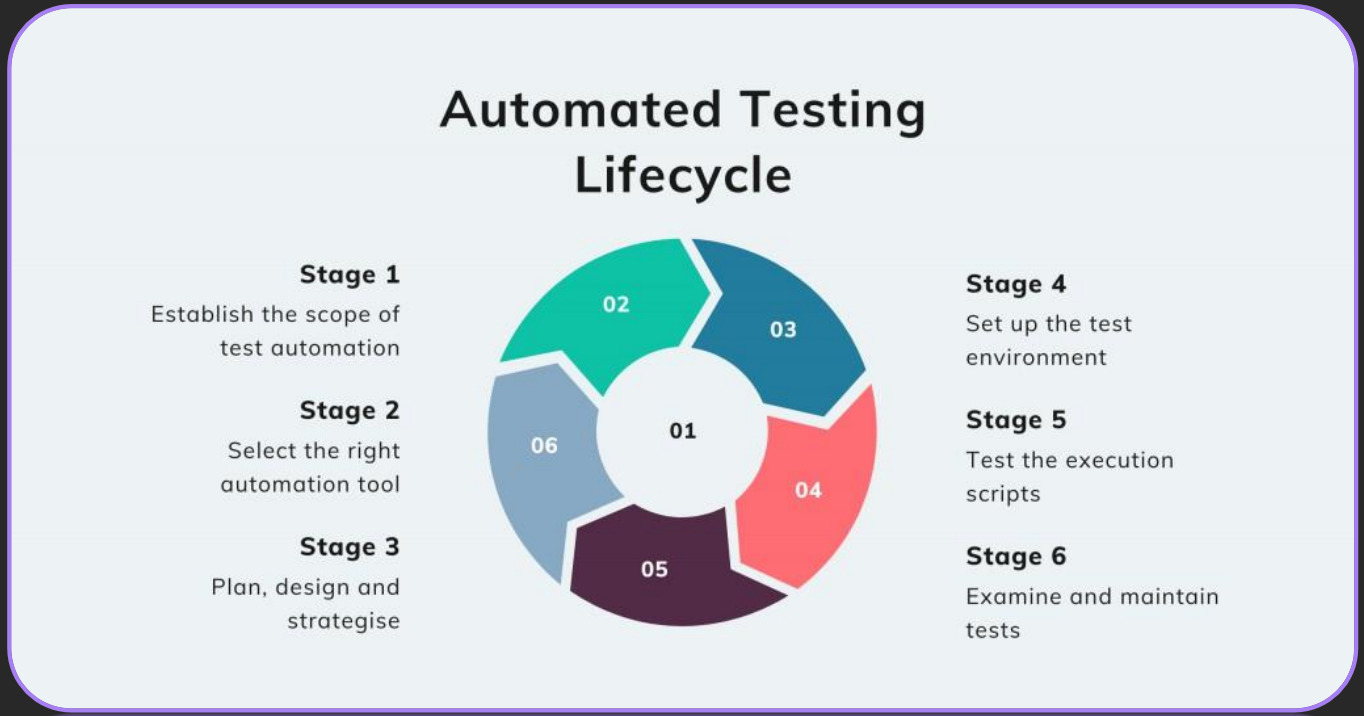
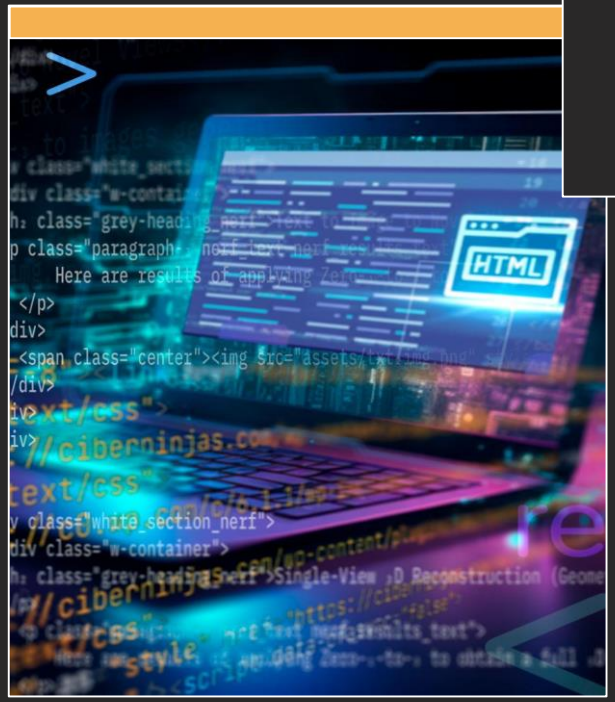
Test Automation Life Cycle

Test Automation Life Cycle





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Key Components of Web Test Automation

Key Components of Web Test Automation

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- **Testing Frameworks** (TestNG)
- **Programming Languages** (Java)
- **Automation Tools** (Selenium)
- **Test Data** (Excel Sheets)
- **Version Control** (Git)
- **Continuous Integration (CI) Tools** (Jenkins)
- **Reporting and Logging** (Allure Report)

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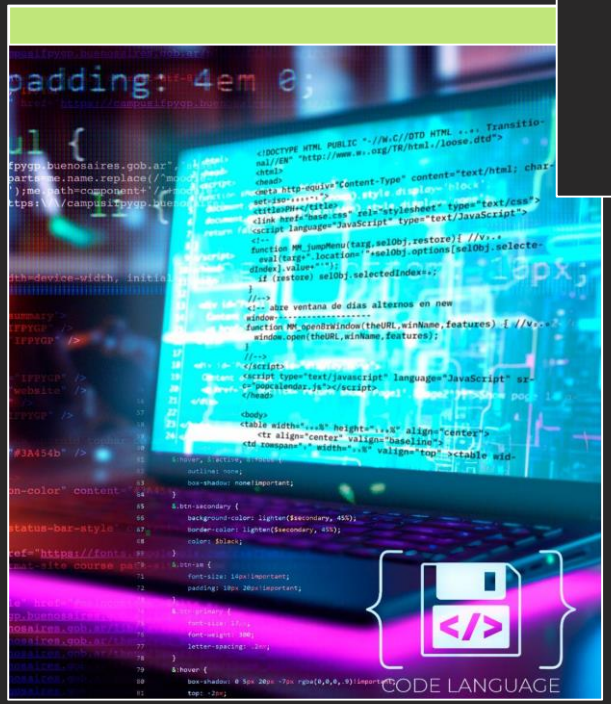

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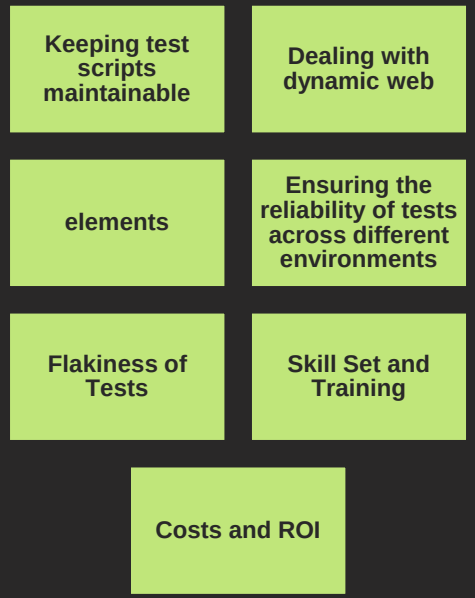
Challenges and Best Practices

Challenges and Best Practices



Best Practices

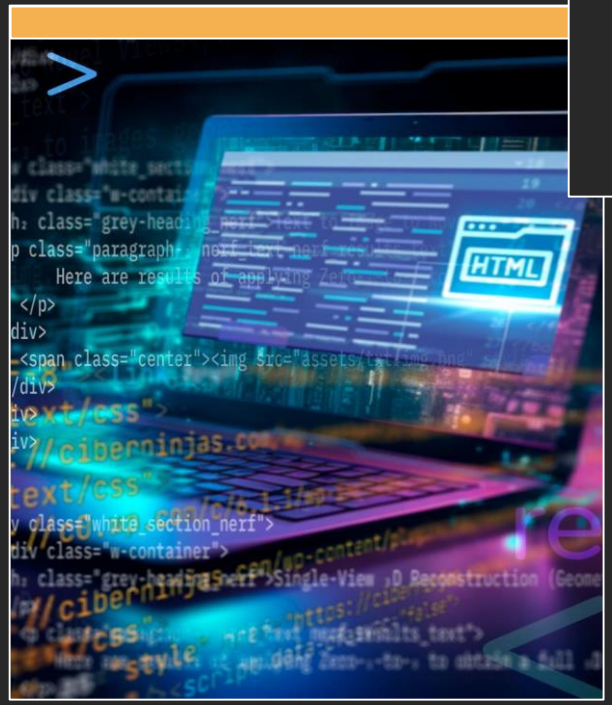
Creating modular and reusable test scripts

Keep tests independent and can be executed in any order

Regular maintenance of test suites

Choosing test cases that are suitable for automation

Use Explicit Waits



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Swag-Labs Web Test Automation

Demo URL:

https://www.saucedemo.com/

Swag-Labs Web Test Automation

About the Project

Web Test Automation using Selenium

Programming Language - Java

Design Pattern - Page Object Model

IDE - IntelliJ

Testing Framework - TestNG

Test Data - Json Files

Reporting and Logging - Allure Report / emailable-report

Swag-Labs Web Test Automation

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Most Common Exceptions

NoSuchElementException

TimeoutException

ElementNotInteractableException

ElementClickInterceptedException

NoAlertPresentException

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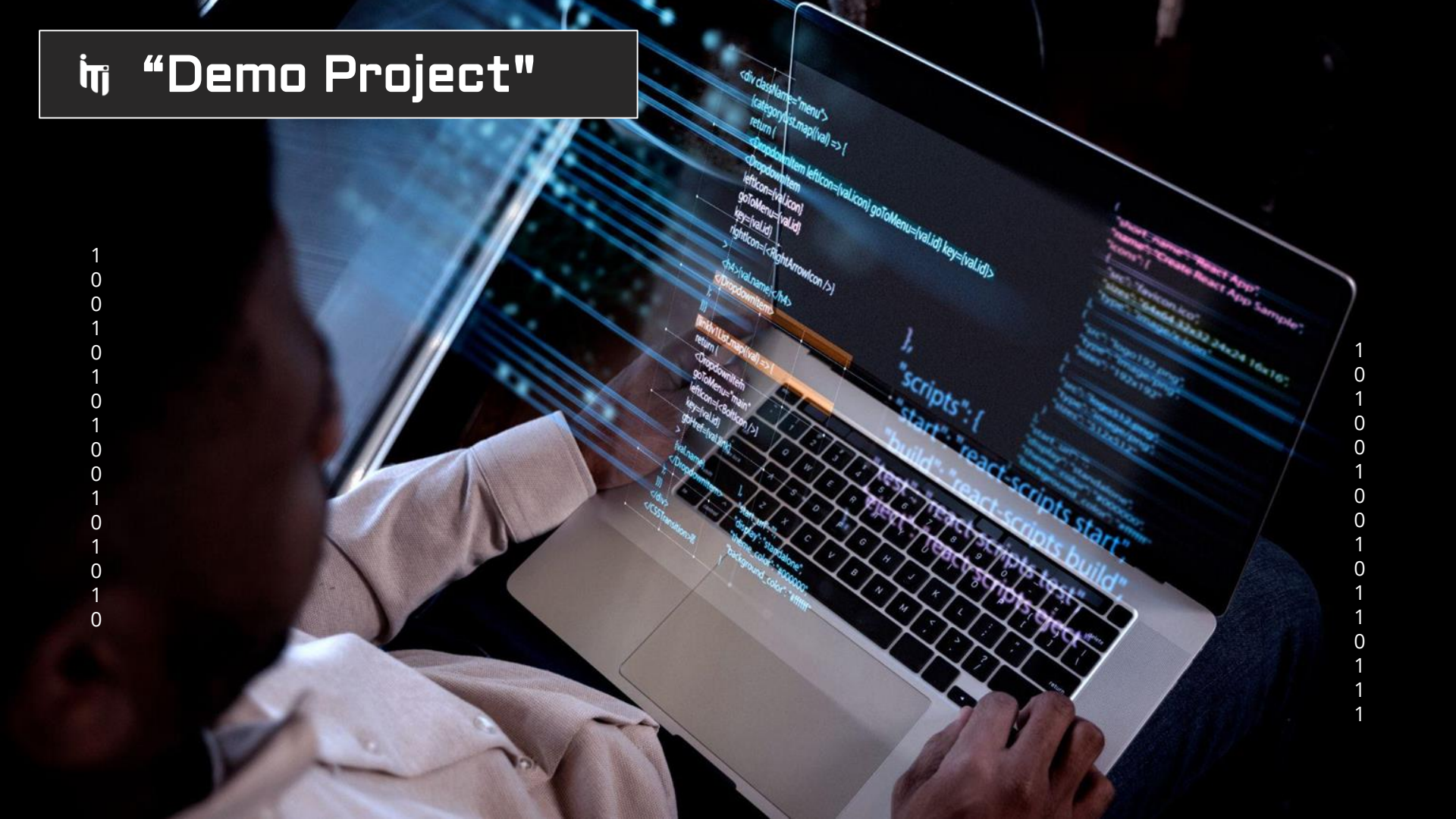
Swag-Labs Web Test Automation

Full User Journey Steps

1) Log in
2) Choose a product from Homepage
3) Redirected to Product page
4) Customize the product
5) Add Product to Cart
6) Redirected to Cart page
7) Check that product added to cart
8) Redirected to Checkout page
9) Fill checkout information
10) Overview page
11) Finishing Page.

“Demo Project"



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</// Any Questions ? //>

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Thank You

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