

WIPRO NGA Program – SDET Batch

Capstone Project Presentation – 09 August 2024

Project Title Here – ITlearn360

Presented by – Group A



AUTOMATION TESTING ON **ITlearn360**

TEAM MEMBERS

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TRAINER

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INTRODUCTION

ITlearn360 is a demonstration website used for educational purposes, particularly in software testing and quality assurance training. It offers a simulated environment for testing various functionalities, such as user login, product browsing, and purchasing processes.

This website is used to create and execute test cases, validate functional requirements, and ensure that all elements of the e-commerce processes work correctly.

OBJECTIVE

The central aim of this capstone project is to construct a durable and streamlined test automation framework for evaluating the Learning store (<https://demo.itlearn360.com/>).

The framework integrates **Selenium, TestNG, JUnit, BDD-Cucumber, API Testing using Postman and Rest Assured** - A Hybrid Framework which uses/generates different approaches to obtain **Reports**.

PROBLEM STATEMENT

In Learning store portal, user can login, search, do payment and explore features on dashboard. Users can search for the course and subscribe.

User can update the cart with another course if required and make the payment. Objective is to Automate these workflows using Selenium with TestNG, Page Object Model and getting the data from data sheet and properties file. Thereby, we are testing faster and accurate using automation technique.

The screenshot displays the ITlearn360 website's course catalog. The header includes the logo, a navigation menu with 'All Courses', 'Free Courses', 'Online Classes', 'Blog', and 'Jobs', a search bar, and 'Log in' and 'Get Started' buttons. Below the header, four course cards are presented in a grid. Each card features a title, a subtitle, a list of available slots, course details (courses, tools, certificate, duration), and a 'BOOK DEMO' button.

JOB-ORIENTED SOFTWARE TESTING (QA) / BA / ISTQB TRAINING	JOB-ORIENTED SOFTWARE TESTING (QA) ONLINE TRAINING	JOB-ORIENTED AUTOMATION TESTING/ SELENIUM TRAINING	JOB-ORIENTED MASTER OF MANUAL TESTING TRAINING
THE MOST TRUSTED CAREER CHANGE PROGRAM	THE MOST TRUSTED CAREER CHANGE PROGRAM	MOST POPULAR BOOTCAMP PROGRAM	MOST POPULAR IT CAREER LAUNCHER
Available Slots Saturday, Sunday	Available Slots Saturday, Sunday	Available Slots Tuesday, Friday	Available Slots Thursday, Saturday & Sunday
13+ Courses, 10+ Tools, Master's certificate 100+ hours duration	11+ Courses, 10+ Tools, Master's certificate 50+ hours duration	8+ Courses, 10+ Tools, Master's certificate 30+ hours duration	5+ Courses, 2+ Tools, Master's certificate 20+ hours duration
Mentorship & Self-driven portal access	Mentorship & Self-driven portal access	Mentorship & Self-driven portal access	Mentorship & Self-driven portal access
BOOK DEMO	BOOK DEMO	BOOK DEMO	BOOK DEMO

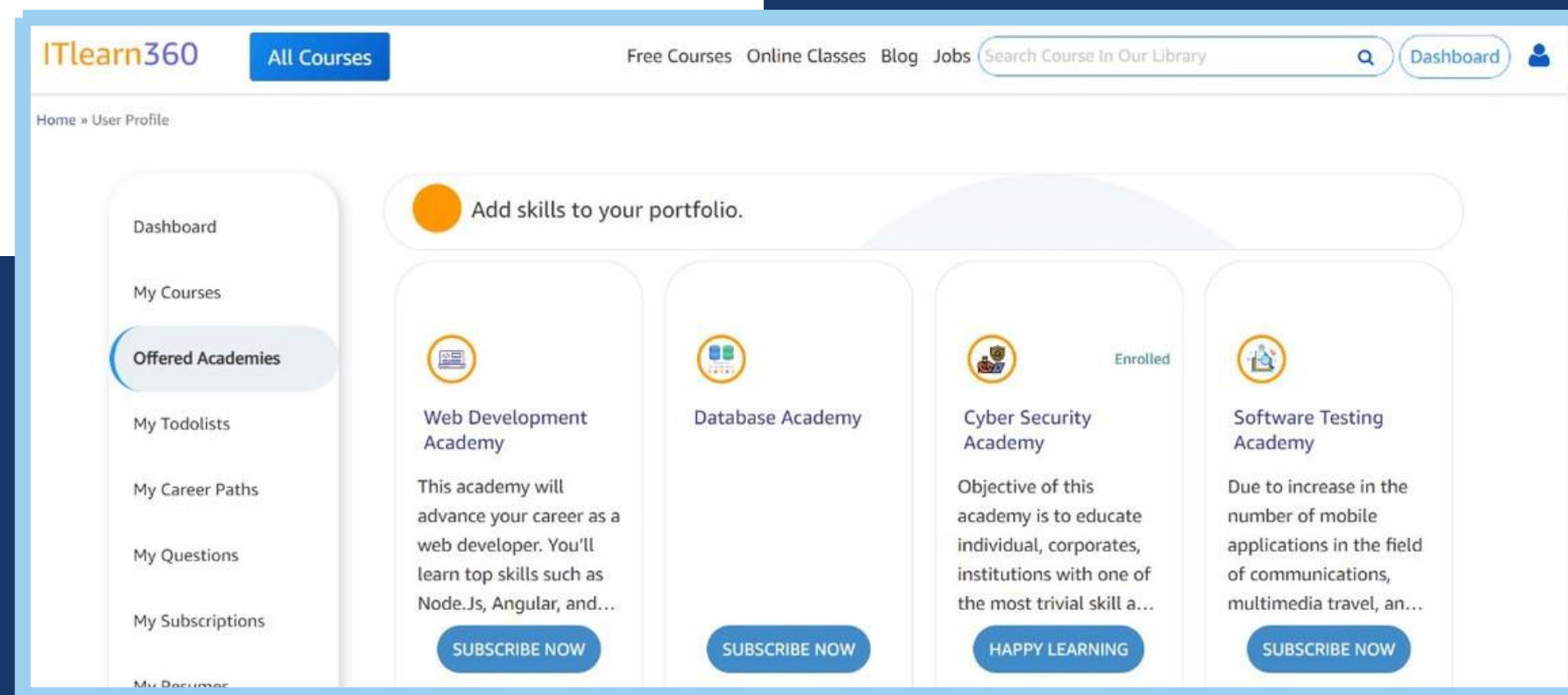
ITlearn360

Online learning platform

- Offers a wide range of courses and training programs in various IT fields
- Explore and check the details of courses offered
- Virtual Purchases

SIGNIFICANCE

- Practical and Controlled Testing Environment
- Demonstrate Automation Efficiency and Accuracy
- Real - World Challenges and Solutions



TEST SCENARIOS

LOGIN

DASHBOARD

SEARCH

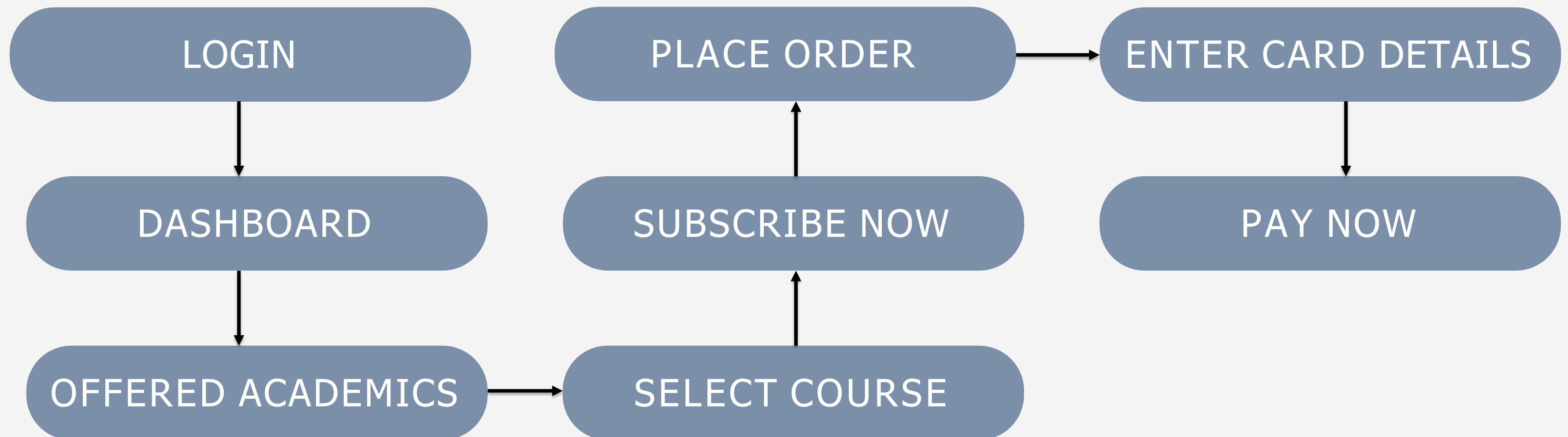
PAYMENT

DATADRIVEN

TITLE TEST

LOGO TEST

TEST FLOW



AUTOMATION OVER MANUAL TESTING

- Efficiency and Speed
- Cost-Effectiveness
- Consistency and Repeatability
- Comprehensive Testing
- Scalability
- Performance Testing
- Reusability and Maintenance
- Detailed Reporting and Analysis
- Continuous Integration and Continuous Deployment (CI/CD)

Manual Testing vs Automation Testing

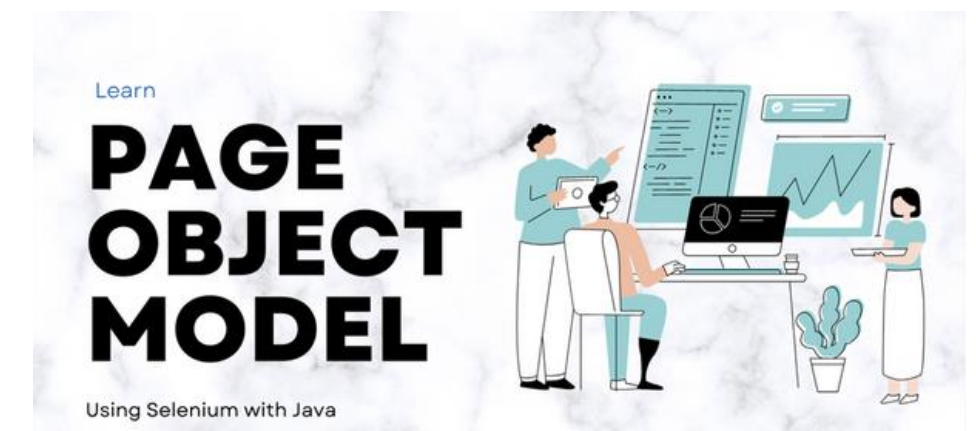


OUR JOURNEY WITH AUTOMATION

TestNG



JUnit



Test Execution

Test Execution is the process of performing test cases to identify bugs, errors, and other potential issues that a software could have.

- Test Execution Phases
- Test Execution Cycle
- Test Execution State



EXTENT REPORT

- Open-source reporting library useful for test automation.
- Easily integrated with major testing frameworks like **JUnit**, **TestNG**, etc.
- Extent Reports offer several advantages when compared to the built-in reports that are generated through JUnit and TestNG such as **pie chart representation**, test stepwise report generation, adding **Screenshots** etc.

EXTENT REPORT

Tests

LogoCheck

12:53:09 pm / 00:00:00:007

Pass

testcourses

12:53:28 pm / 00:00:00:000

Pass

searchCourseTesr

12:53:38 pm / 00:00:00:001

Pass

CheckBoxCheck

12:53:48 pm / 00:00:00:001

Pass

testcourses

12:54:07 pm / 00:00:00:000

Pass

verifyLogin

12:54:15 pm / 00:00:00:000

Pass

fetchDashboardText

12:54:15 pm / 00:00:00:000

Pass

verifyLogin

12:54:15 pm / 00:00:00:000

Pass

LogoCheck

08.04.2024 12:53:09 pm08.04.2024 12:53:09 pm00:00:00:007-#test-id=1

STATUS

TIMESTAMP

DETAILS

Pass

12:53:09 pm

Name of the skip test case is: LogoCheck

This is my first Report

Aug 4, 2024 12:53:00 pm

Started

Aug 4, 2024 12:53:00 pm

Ended

Aug 4, 2024 12:54:36 pm

Tests Passed

9

Tests Failed

1

Tests

9 tests passed
1 tests failed, 0 skipped, 0 others

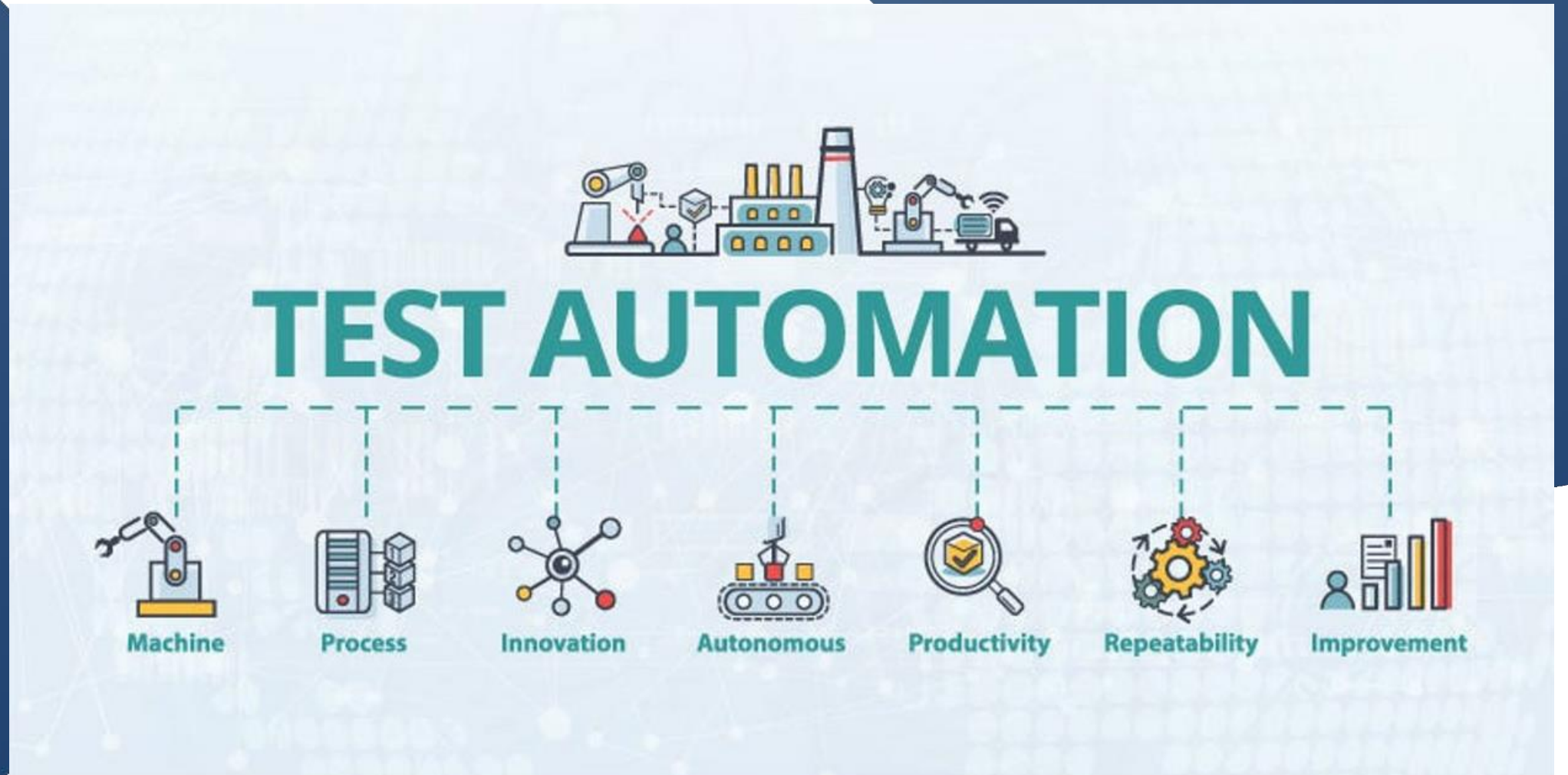
Log events

9 events passed
2 events failed, 0 others

Timeline

CONCLUSION

- Quality Assurance
- Efficiency Improvement
- Customer Satisfaction
- Consistency in Testing
- Long-Term Cost Savings





THANK YOU