RPS
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WIPRO NGA Program – SDET Batch

Capstone Project Presentation – 09 August 2024

Project Title Here – ITlearn360

Presented by – Group A

www.rpsconsulting.in

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.

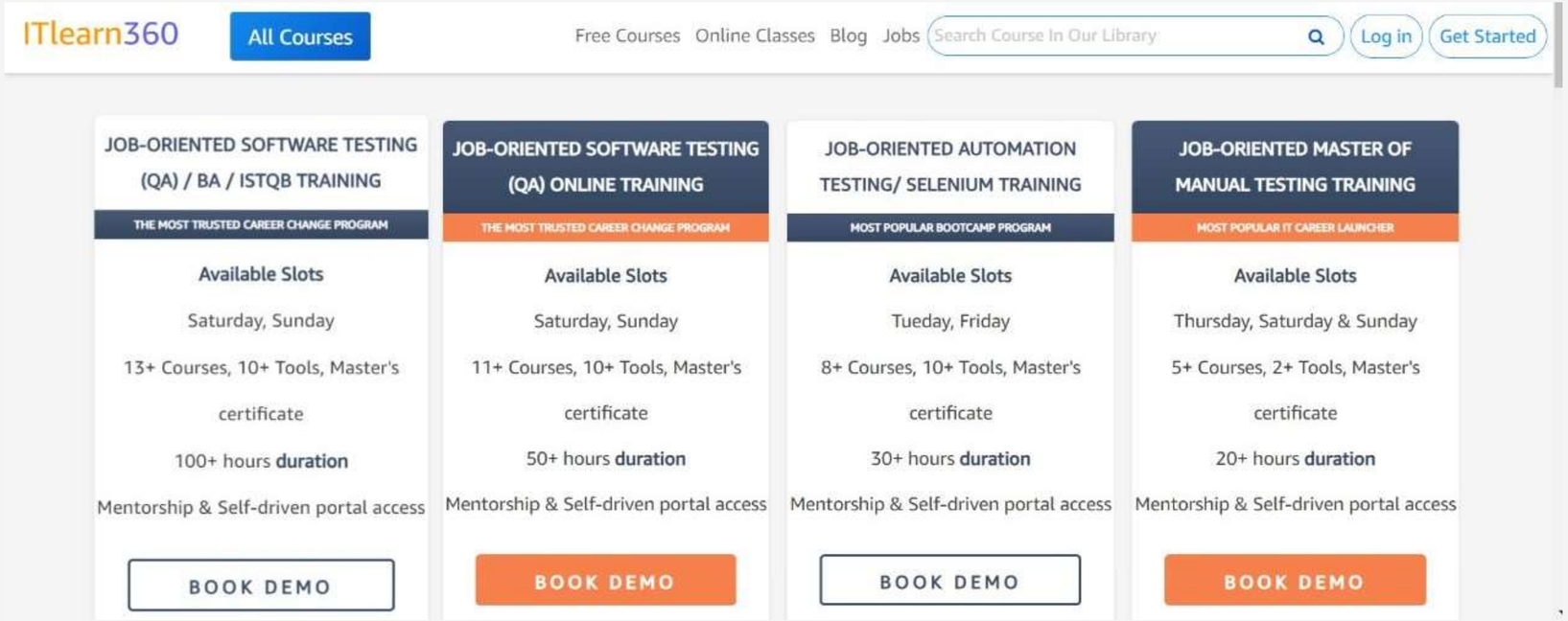
OBJECTIVE

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.



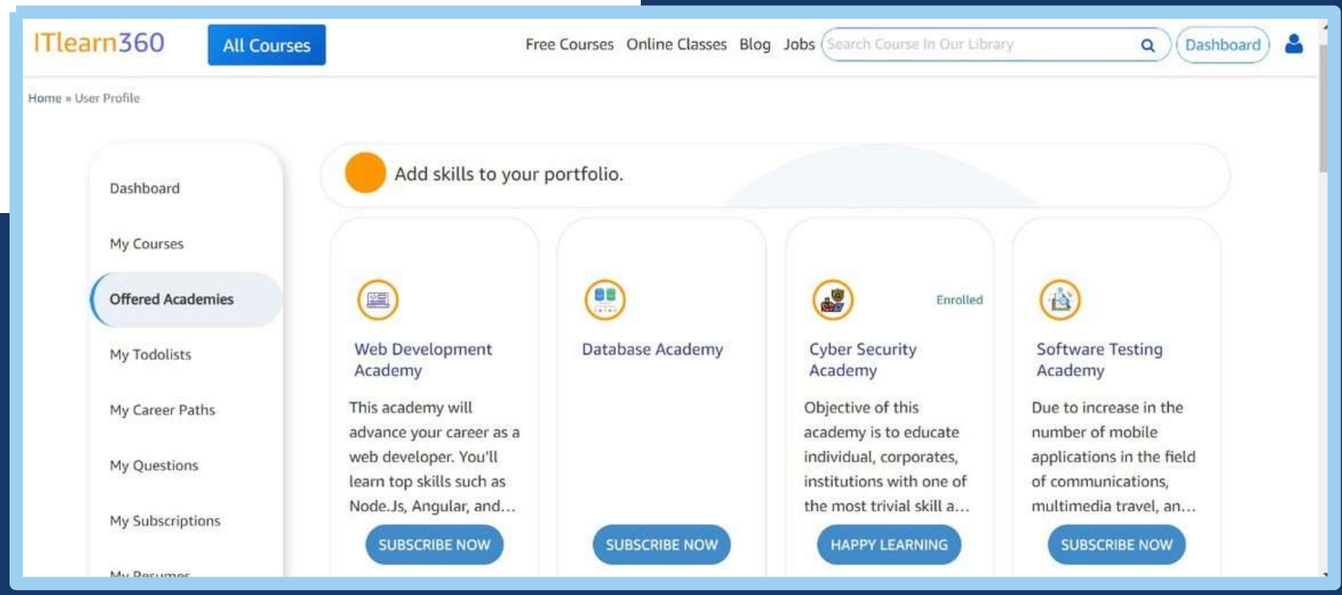
ITlearn360

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

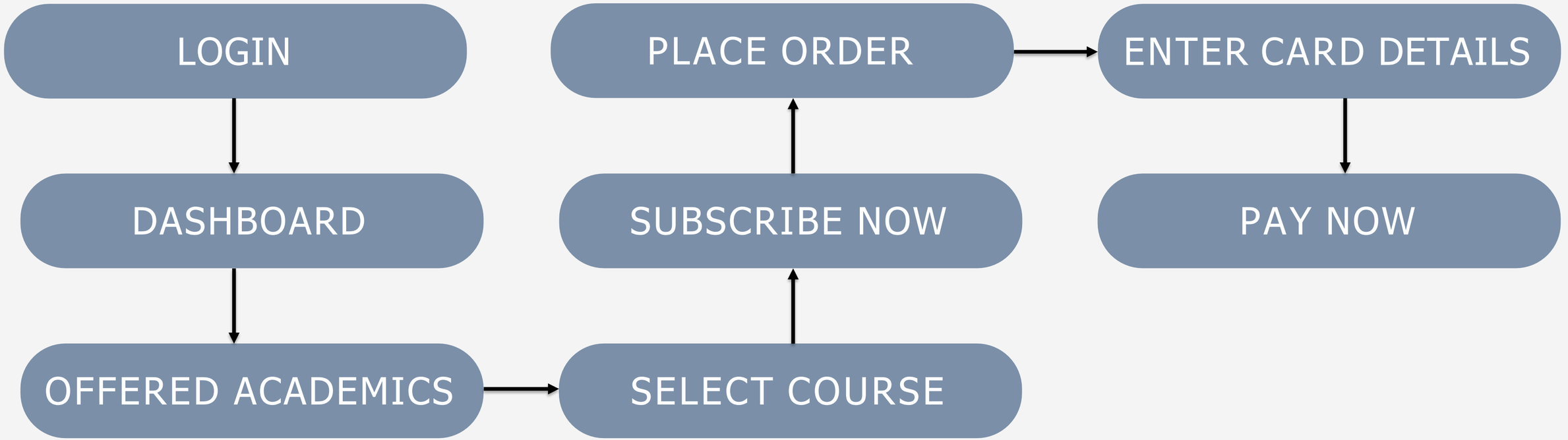
- Practical and Controlled Testing Environment
- Demonstrate Automation Efficiency and Accuracy
- Real - World Challenges and Solutions



TEST SCENARIOS

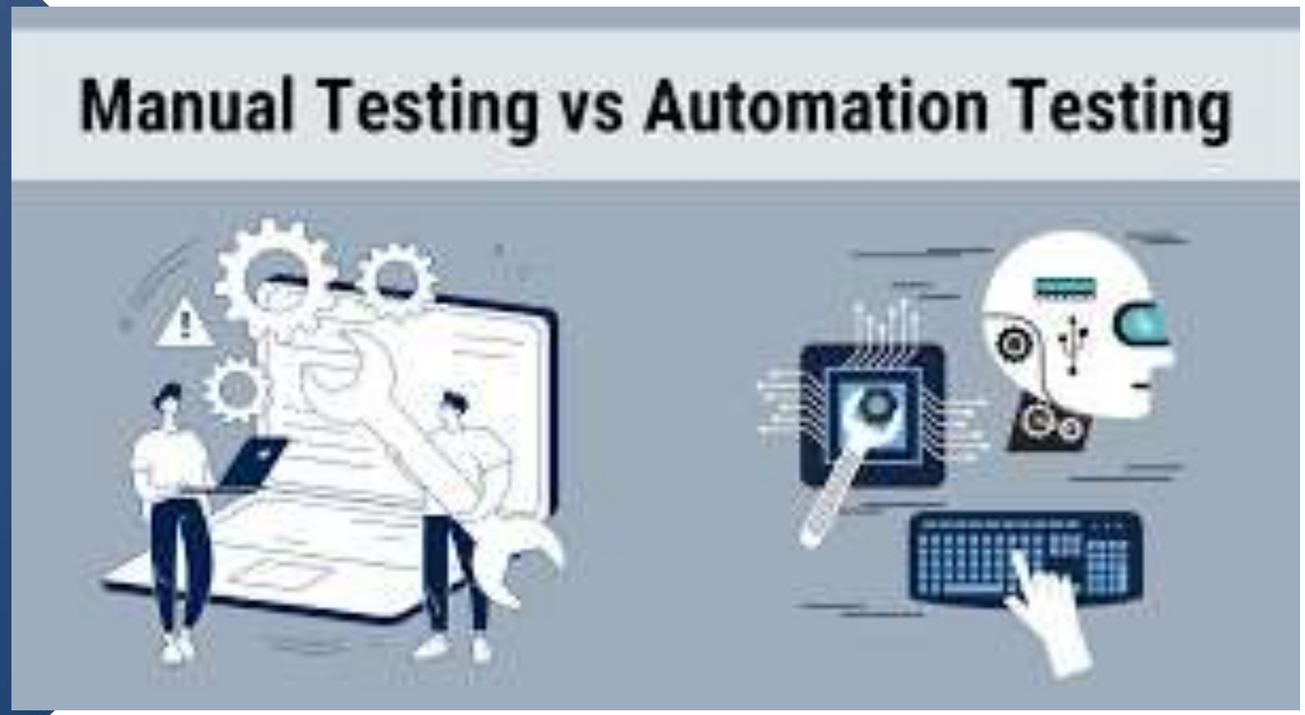
- LOGIN
- DASHBOARD
- SEARCH
- PAYMENT
- DATADRIVEN
- TITLE TEST
- LOGO TEST

TEST FLOW


LOGIN
DASHBOARD
OFFERED ACADEMICS
SELECT COURSE
SUBSCRIBE NOW
PLACE ORDER
ENTER CARD DETAILS
PAY NOW

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)



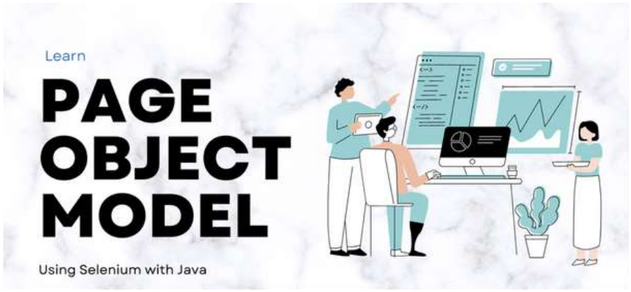
OUR JOURNEY WITH AUTOMATION

TestNG

Cucumber

POSTMAN

JUnit



Test Execution

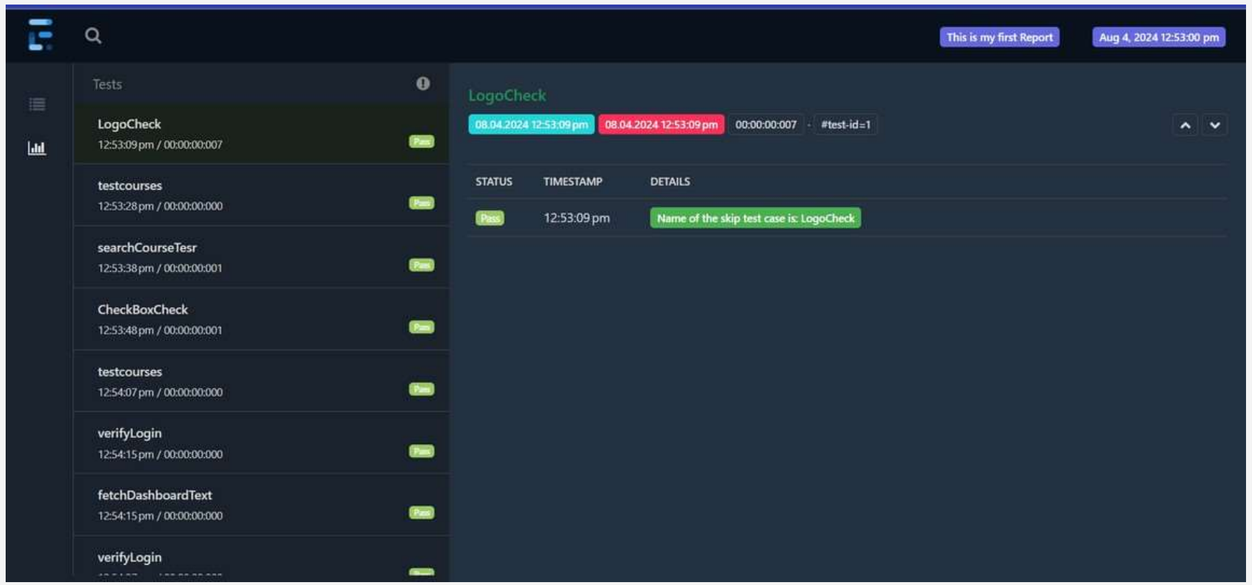
Test Execution is the process of performing test cases to identify bugs, errors, and other potential issues that a software could have.

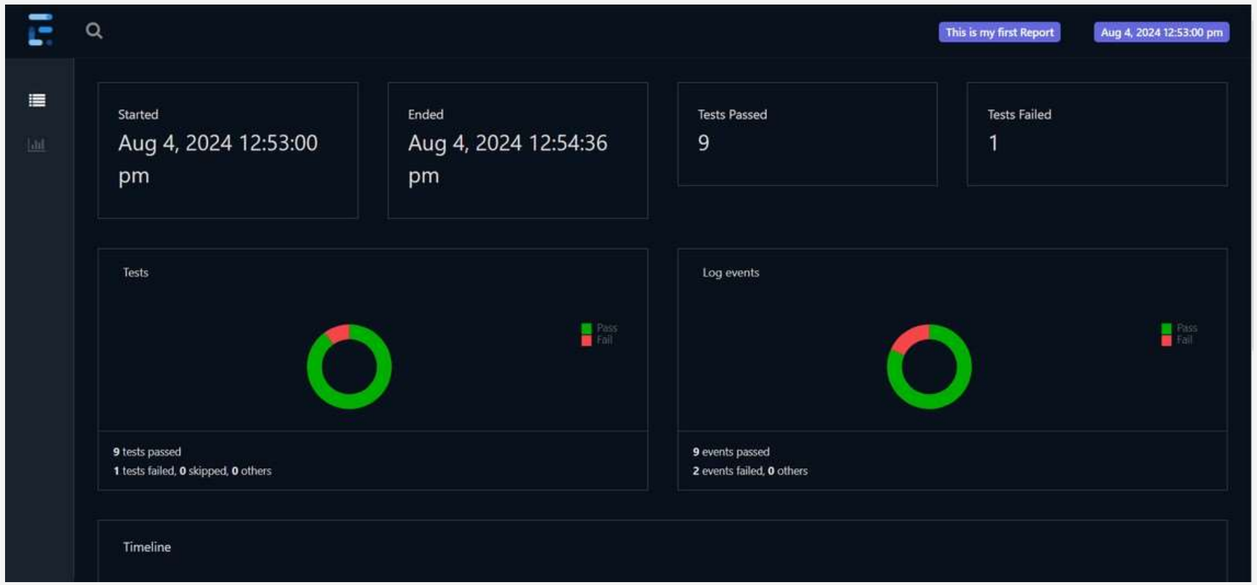
- **Test Execution Phases**
- **Test Execution Cycle**
- **Test Execution State**

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.

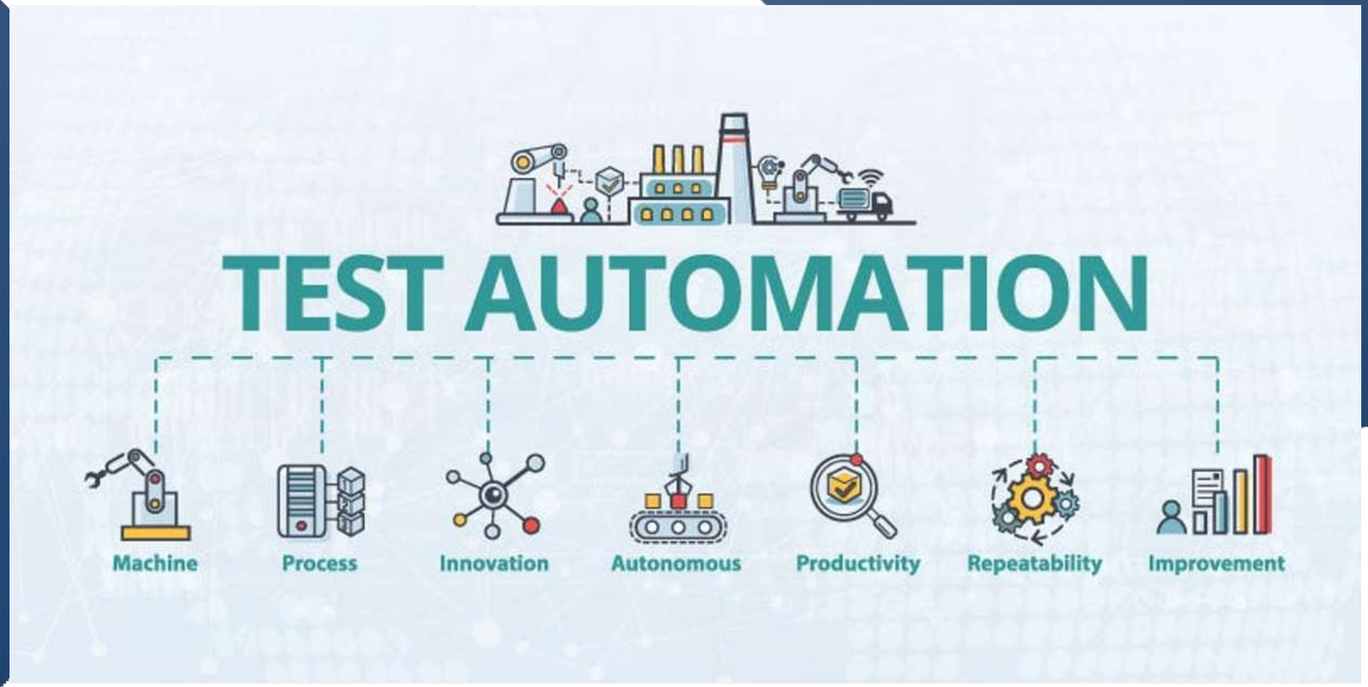
EXTENT REPORT





CONCLUSION

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



THANK YOU