

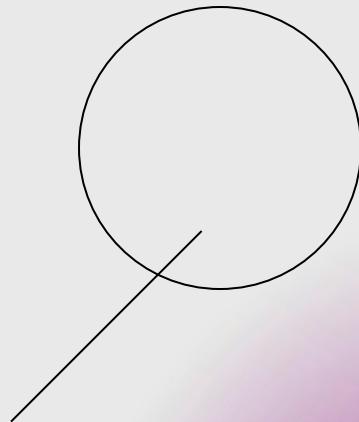
# Selenium Project

Amazon Laptop Search Automation

Submitted By:Ashmeet Kaur

# Introduction

This presentation covers the automation of laptop searches on Amazon using **Selenium** combined with **Cucumber** and **Gherkin** for behavior-driven development. It demonstrates how to filter limited-time laptop deals and rank the top 10 laptops by discount percentage. The project also includes comprehensive logging and



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# Selenium Project Overview

# Introduction to Selenium and Cucumber

Selenium is a powerful open-source tool for web automation, widely used for testing web applications. Cucumber complements Selenium by enabling Behavior-Driven Development (BDD) through readable test scenarios in natural language. Together, they allow for robust and maintainable test automation scripts that simulate user interactions on Amazon's website.



# Using Gherkin for Behavior-Driven Development

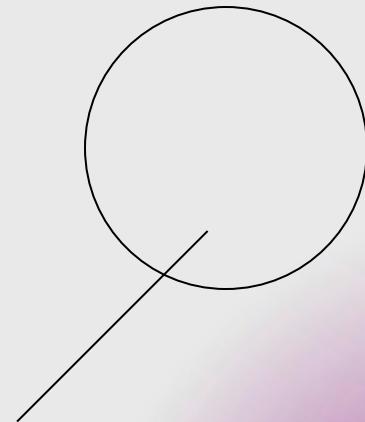
Gherkin syntax is used to write structured, human-readable test cases, facilitating communication between technical and non-technical stakeholders. It defines features with scenarios composed of Given, When, Then steps, ensuring clarity and precision in describing test behavior for the Amazon laptop search and discount ranking automation.

# Setting Up the Amazon Laptop Search Scenario

To initiate the Amazon laptop search automation, the project configures Selenium WebDriver to navigate and interact with the Amazon website.

The test scenario involves searching for laptops, applying filters for limited-time deals, and validating the presence of discounted products.

This setup provides a foundation for further



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# Test Implementati on and Reporting

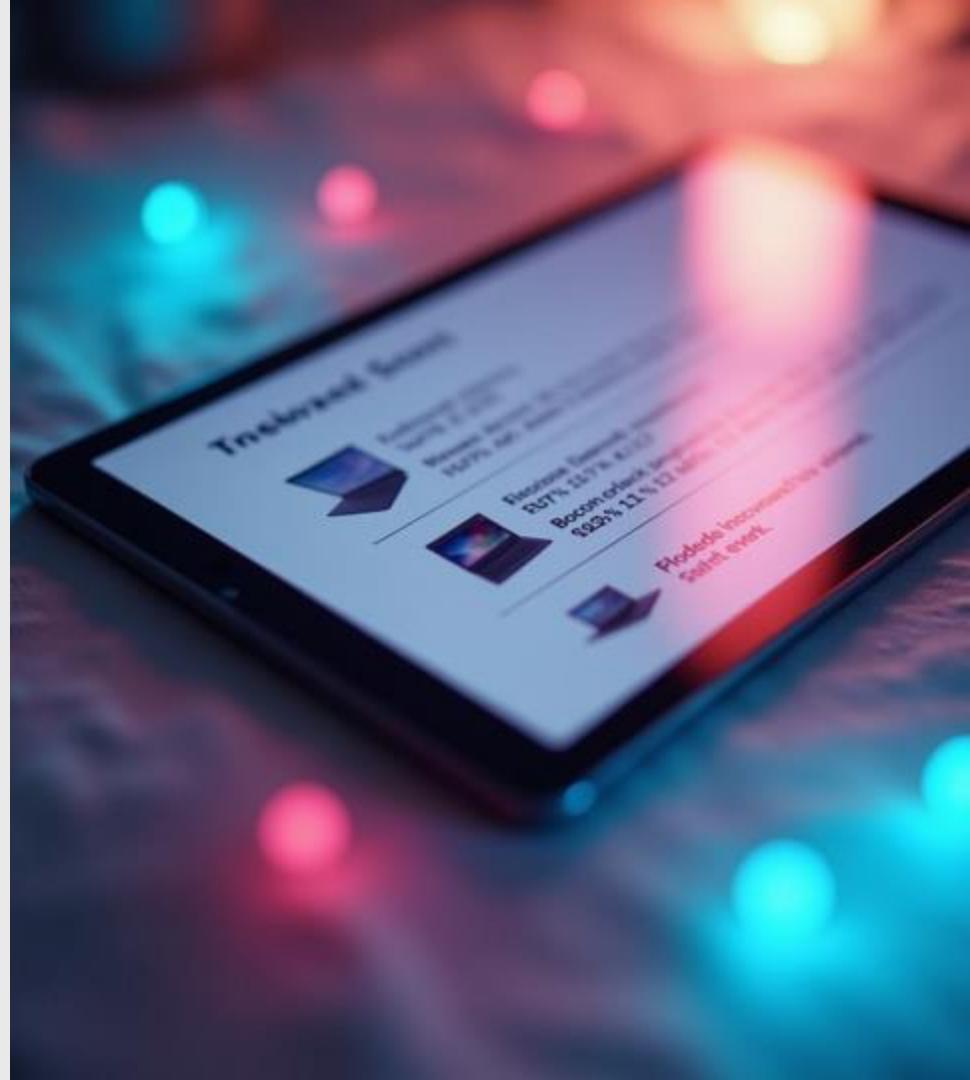


# Automating Laptop Search and Deal Filtering

The automation script performs a keyword search for laptops on Amazon and programmatically applies filters to isolate laptops under the limited-time deal category. This ensures that only relevant, discounted items are retrieved, improving test accuracy and efficiency by focusing on time-sensitive offers and potential deals valuable to users.

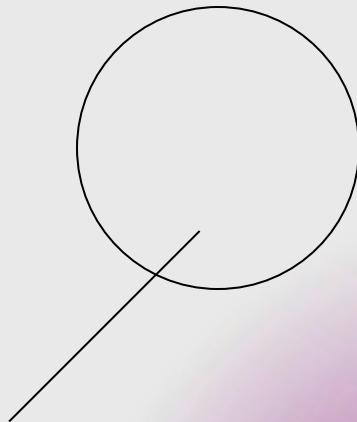
# Displaying Top 10 Laptops by Discount Percentage

After filtering the scope collects data on laptops' prices and discounts, sorts the list in descending order based on discount percentage, and extracts the top 10 entries. This ranking helps highlight the best deals, providing clear insights into which products offer the greatest savings at that moment.



# **Integration of Logs and Allure Report for Test Results**

Comprehensive logging is embedded throughout the test process to track execution flow and capture any issues. Results are compiled into an Allure report, delivering a detailed, user-friendly visualization of test outcomes, including passed, failed cases, and screenshots, enhancing debugging and auditability for stakeholders.



# Conclusions

This project successfully demonstrates how **Selenium** and **Cucumber** can be integrated to automate complex e-commerce workflows, such as searching, filtering, and ranking laptop deals on Amazon. The use of **Gherkin** makes test scenarios clear and maintainable, while integrated logging and Allure reporting provide

