

Week 1 Lab Exercise: Exploring Types of Software Testing Scenarios

Understanding When and Why to Apply Different Testing Methods

Objective:

Students will identify and explain which types of software testing are appropriate in different situations. Through group discussion and collaborative analysis, they'll build confidence in recognizing manual vs. automated, functional vs. non-functional, and acceptance vs. performance testing needs.

Instructions for Students:

1. Form groups of 3 to 4 students.
2. Review the 10 testing scenarios below.
3. For each:
 - Decide on the most appropriate test type.
 - Write a 2–3 sentence summary explaining your choice.
4. Each student should submit their own assignment.

Scenarios

Scenario 1: A login form needs to be verified to ensure it accepts a valid username and password, and rejects incorrect entries.

Scenario 2: Your team wants to evaluate how many users your application can support during a Black Friday sales event.

Scenario 3: A new export feature was added to an app. You want to make sure this hasn't affected existing features.

Scenario 4: You've finished a prototype and want real users to interact with it and give feedback on layout and usability.

Scenario 5: You built a Power Automate flow to send reminder emails every Friday. You want to ensure it works consistently.

Scenario 6: An online store app needs to be tested to make sure customers can place orders from product selection to checkout.

Scenario 7: A team wants to test how secure their login and payment pages are against common attacks like SQL injection.

Scenario 8: You just finished coding a new function that calculates tax based on purchase amount and province. You want to check its accuracy.

Scenario 9: Your app is slow to load for users in remote regions. You want to evaluate speed and performance.

Scenario 10: A product owner is testing the final app version before launch to confirm it meets business requirements.