Lab Evaluation Assignment – Application Testing Challenge (CO5)

Objective

This lab evaluates students' ability to test an application using industry-standard testing techniques. The focus is on identifying **functional, usability, and performance issues** in an existing system and documenting them professionally.

Instructions

Step 1: Select a Web or Mobile Application

- Choose a commonly used application (e.g., a university portal, e-commerce site, or a productivity app).

- If access to a real system is unavailable, use an **open-source application** or a sample test site.

Step 2: Conduct Testing and Identify Bugs

Students must perform at least **three types of testing**:

1. **Functional Testing:** Verify if core features work correctly.

2. **Usability Testing:** Check if the interface is intuitive and user-friendly.

3. **Performance Testing (Basic):** Observe if the system slows down under certain conditions.

- Report at least **five defects** using a structured bug report format.

Bug Report Format:

Bug ID	Description	Steps to Reproduce	Expected Behavior	Actual Behavior	Severity (Low/Medium/High)
B01	Login form doesn't validate email	Enter invalid email and click submit	Show validation message	No validation message shown	Medium

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Step 3: Test Case Design Using Industry Standards

- Write **three detailed test cases** using the IEEE 829 standard format.

- Include **test case ID, test scenario, preconditions, steps, expected output, and actual output.**

Example Test Case:

Test Case ID	Test Scenario	Precondition	Steps	Expected Output	Actual Output	Status
TC01	Login with incorrect password	User account exists	1. Open login page 2. Enter valid email & wrong password 3. Click "Login"	Show "Incorrect password" error	No error shown	Fail

Step 4: Submission & Evaluation Criteria

Students must submit a document with:

1. **Bug Reports (3 Marks)**
2. **Test Cases (3 Marks)**
3. **Summary of Key Observations (2 Marks)**
4. **Reflections on Industry Testing Standards (2 Marks)**

Expected Outcome

By the end of this lab, students will have hands-on experience with **real-world testing methodologies**, applying structured bug reporting and test case documentation using industry standards.