



Republic of the Philippines  
**BATANGAS STATE UNIVERSITY**  
**The National Engineering University**  
College of Informatics and Computing Sciences  
Pablo Borbon Main Campus II

**LABORATORY ACTIVITY 3**  
IT 414 – Systems Quality Assurance

**Niña Claire Alejandra V. Merhan**

**BSIT-SM-4109**

**Exercise #1: Finding Defects**

- Missing letter and inconsistent color of header.
- Small letter d in “Choose User ID”.
- Special characters in the user ID field.
- The password to be confirmed is displayed.
- Name input should be for one person only and no numbers nor characters.
- The input box for country is not aligned properly.
- Captcha numbers are not displayed correctly.
- The text box for verification number should not accept letter input.
- The register button has a defect wherein the letter r is in lower case and not properly displayed.

**Exercise #2: Writing Test Scenarios**

- All grocery store equipment must be working fine especially the scanners and payment processors.
- Every item in the grocery store should have a scannable barcode to be read by the system
- Monitor the speed of every transaction till it finishes to see how fast the process is.
- Test different payment method and check if application of promos or vouchers are working properly.
- Ensure that the payment made by customers matches the totality displayed in the system.
- If problems happen such as unscannable product or no barcode, help must be available immediately.
- The exit must be located near the Counter and can be seen well by the customers.
- The exit should have a checker if whether the customer payed and shopped properly.

### Exercise #3: Providing Suggestions

- “What is your e-mail address?” should be “E-mail Address”.
- “My email address is” text should be removed is unnecessary
- Users should have option to use user ID or username in signing in.
- Change “Forgotten your password” to “Forgot Password”
- Sign in button should only have “Sign in” text.
- There should be an option where users will choose if they are an old or new customer in a separate page.
- An option to show and hide the password entered should be available.
- Create a separate page for new customers.
- Provide a document or different indicator that the server is secure instead of stating on the button.

Exercise #4: Make a summary report on STLC Phases using the answers to these questions.

1. Name all STLC phases in their sequence.
  - Requirements Analysis
  - Test Planning
  - Test Design
  - Test Environment Setup
  - Test Execution
  - Defect Reporting
  - Defect Re-testing
  - Regression Testing
  - Test Closure
2. What is meant by entry criteria and exit criteria?
  - Entry criteria is where the conditions must be completed or met before the testing.
  - Exit criteria means that conditions must be completed or met before exiting the testing phase.
3. What are the entry criteria for Requirements Analysis?
  - Availability of project documentation.
  - Approved requirements document.
4. What are the activities performed in Requirements Analysis Phase?
  - Analyzing project requirements.
  - Identifying testable requirements.
  - Creating a Requirements Traceability Matrix (RTM).

- Identifying risks and dependencies.
5. What are the activities in Test Planning?
    - Defining test objectives and scope.
    - Identifying test resources.
    - Creating a Test Plan document.
    - Defining test schedules and timelines.
  6. What are the deliverables in Test Planning phase?
    - Test Plan document
  7. What is done during test environment setup?
    - Evaluation of the hardware and software to be used including other tools including the network and connections.
  8. In which phase do we produce test cases and test scripts?
    - Test Design Phase
  9. In which phase do we choose the test approach and strategy?
    - Test Planning Phase
  10. In which phase is the testing tool selected?
    - Test Planning Phase
  11. When do we do verification of test case and test script in the STLC?
    - Test Design Phase
  12. In which phase of STLC do we log the defects of the test case failure?
    - Reporting Phase
  13. When do we do retest of defects in STLC?
    - Defect Re-testing Phase
  14. In which phase is the defect report created?
    - Defect Reporting Phase
  15. What are the differences between STLC and SDLC?
    - SDLC is mostly used by developers while STLC are used by testers.
    - SDLC has phases for development and STLC has testing activities on each phase.
    - SDLC is focused in development of the product while STLC is for verifying, testing and making sure it works properly.
  16. Why do you think STLC is important in the V-model used in Software Testing?
    - STLC ensures that testing operations are integrated throughout the development process, resulting in greater software quality.
    - The V-model highlights the importance of a close link between development and testing operations.

- It guarantees that testing starts early in the project and continues throughout the development life cycle, decreasing the possibility of late-stage problems and costly corrections.