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***SQA Assignment-05***

The necessity of documentation in STLC are explained below:

* **Documentation of Each Phase:**

1. Requirement Analysis:

Purpose: In this phase, the testing team reviews and analyzes the software requirements to identify testable aspects.

Key Documents:

* Requirement Traceability Matrix (RTM): Tracks requirements and ensures each requirement has corresponding test cases.

Necessity: Documentation of requirements helps testers understand the scope and helps ensure that all requirements are testable, providing a baseline for future phases.

2. Test Planning:

Purpose: Create a plan for how testing will be executed.

Key Documents:

* Test Plan Document: Outlines the testing strategy, objectives, schedule, resources, risk management, test environment, and deliverables.

Necessity: A test plan acts as a blueprint for the entire testing process, setting clear expectations for the testing team and stakeholders. It ensures that the testing process is well-defined and structured.

1. Test Case Development:

Purpose: Based on the requirements and test plan, test cases are designed and written.

Key Documents:

* Test Cases: Detailed descriptions of test scenarios, inputs, actions, and expected results.
* Test Data: Data prepared for testing, including both valid and invalid inputs.

Necessity: Well-documented test cases are essential for accurate and repeatable testing. Clear test data documentation ensures consistency in test execution across different testers.

1. Test Environment Setup:

Purpose: Prepare the environment where testing will be executed.

Key Documents:

* Environment Configuration Guide: Specifies hardware, software, and network configurations required for the testing.

Necessity: Documenting the setup helps avoid misconfigurations and ensures that the testing environment mirrors the production environment as closely as possible, leading to reliable test results.

5. Test Execution:

Purpose: Execute test cases and compare actual results against expected results.

Key Documents:

* Test Execution Report: Documents the outcomes of executed test cases, including passed, failed, and blocked cases.
* Defect Reports: Detailed records of any defects or bugs found, including steps to reproduce, severity, priority, and status.

Necessity: Maintaining execution logs helps track progress, identify areas for improvement, and provide stakeholders with up-to-date information on test results.

6. Test Cycle Closure:

Purpose: Review the entire testing process, analyze results, and close the testing cycle.

Key Documents:

* Test Summary Report: Provides a high-level overview of the testing activities, results, defect density, test coverage, and lessons learned.
* Defect Analysis Report: Summarizes the defects found, their root causes, and the resolutions applied.

Necessity: Documentation from this phase provides insights into testing efficiency and effectiveness, helping to improve future projects.

* **Comprehensive Documentation:**

Comprehensive documentation ensures that the entire testing process is transparent, traceable, and replicable. It helps in:

* Tracking Progress: Clear documentation allows for real-time tracking of what has been tested and what remains to be done.
* Facilitating Communication: It provides a common reference point for all team members, reducing misunderstandings and ensuring consistent interpretations of requirements and results.
* Ensuring Accountability: Every phase of testing has specific outputs that can be reviewed by stakeholders, which improves accountability.
* Supporting Compliance: In regulated industries, proper documentation is often required to meet legal and regulatory standards.
* Enabling Maintenance and Reusability: Documentation from previous projects can be used as a reference or starting point for future projects, improving efficiency and reducing costs.
* **Examples of Key Documents in STLC:**

1. Requirement Traceability Matrix (RTM): Tracks the relationship between requirements and test cases to ensure all requirements are covered by tests.

2. Test Plan: Describes the overall testing strategy, scope, objectives, resources, schedule, and deliverables.

3. Test Case Specification: Contains detailed steps to perform tests, expected outcomes, and any prerequisites.

4. Test Execution Report: Logs the results of test case execution, specifying whether each case passed or failed.

5. Defect Report: Documents bugs or defects found during testing, including their status, priority, and steps to reproduce.

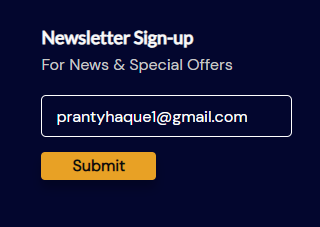
6. Test Summary Report: Provides a summary of testing activities, defect trends, coverage, and recommendations for release readiness.

* **Bug Finding for a Website:**

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