

Software Testing Life Cycle

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DID015	1.0	11/4/16	STLC	Rami

Stage	Role	Name
Author/Lead	QA Lead	Rami
Reviewer	Release Manager/ Product Manager/ Engineering Lead	
Approver	Director QA	

STLC Stage	Entry Criteria	Activity	Exit Criteria	Deliverables
Requirement Analysis	Requirements Document available (both functional and non functional in Jira) Acceptance criteria defined. Application architectural document available. (R&D design documents)	Analyse business functionality to know the business modules and module specific functionalities. Identify types of tests to be performed. Gather details about testing priorities and focus. Identify test environment details where testing is supposed to be carried out. Automation analysis (if required).	Test automation feasibility	Automation feasibility report (if applicable) Epic and user stories available which describe the actual use cases
Test Planning	Requirements Documents/user stories	Analyze various testing approaches available Finalize on the best suited approach Preparation of test plan/strategy for various types of testing Test tool selection (if needed) Test effort estimation (as part of the project planning session) Resource planning and determining roles and responsibilities.	Approved test plan/strategy. Effort estimation.	Test plan/strategy document. Effort estimation document.
Test case development	Requirements Documents/users stories Test plan Automation analysis report (if needed)	Create test cases, automation scripts (where applicable) Review and baseline test cases and scripts	Test plan review	Test cases/scripts
Test Environment setup	System Design and architecture documents are available Environment set-up plan	Understand the architecture, environment set-up Prepare hardware and software requirement list Finalize connectivity requirements Prepare environment setup checklist Setup test Environment and test data Perform smoke test on the build Accept/reject the build depending on smoke test result	Environment setup is working as per the plan and checklist Smoke test is successful	Environment ready Smoke Test Results for the environment.

Test Execution	<p>Test Plan , Test case/scripts are available</p> <p>Test environment is ready</p> <p>Unit/Integration test is available for QA before testing</p>	<p>Execute tests as per plan</p> <p>Document test results, and log defects for failed cases</p> <p>Update test plans/test cases, if necessary</p> <p>Retest the defect fixes</p> <p>Regression testing of application</p> <p>Track the defects to closure</p>	<p>All tests planned are executed</p> <p>Defects logged and tracked to closure</p>	<p>Execution status</p> <p>Test cases updated with results</p> <p>Defect reports</p>
Test Cycle closure	<p>Testing has been completed</p> <p>Test results are available</p> <p>Defect logs are available</p>	<p>Evaluate cycle completion criteria based on - Time, Test coverage , Cost , Software Quality , Critical Business Objectives</p> <p>Prepare test metrics based on the above parameters using Vidyo's KPI's</p> <p>Document the learning out of the project (sprint retrospective)</p> <p>Prepare QA GA checklist report</p>	<p>Test Closure report signed off by QA manager.</p>	<p>Quality report for the tested project.</p>