

# Testing Phase

<b>What is Software Testing?</b>	Software testing is a process to validate the functionality of a software application with an intent to find whether the developed software met the specified requirements or not.
<b>Manual vs Automated Testing</b>	<p><b>Manual Testing:</b> is performed by person/people, by clicking through or interacting with the software and APIs with the appropriate tooling. Manual testing is very expensive as it requires someone to set up an environment and execute the tests themselves.</p> <p><b>Automated Testing:</b> is the process of testing the software using an automation tool to find the defects. In this process, testers execute the test scripts and generate the test results automatically by using automation tools.</p>
<b>Testing Types</b>	<p><b>Important testing Types are:</b></p> <ul style="list-style-type: none"><li>• Unit Testing</li><li>• Integration Testing</li><li>• System Testing</li><li>• User Acceptance Testing</li><li>• Smoke Testing</li><li>• Regression Testing</li></ul>
<b>Techniques</b>	<p><b>Blackbox:</b> is a type of testing where Tester have <b>no</b> information/knowledge about the internal structure of code or program.</p> <p><b>Whitebox:</b> is a type of testing where Tester have information/knowledge about the internal structure of code or program. Generally developers perform this type of testing.</p>