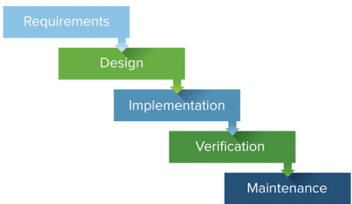



<p>Regression Testing</p> <p>If anything is changed on an already-tested module, regression testing ensures that this change has not introduced a new error into the previously correct code.</p> <p>Major & minor (<i>big & small</i>) regression testings might be performed.</p> <p><i>Example:</i> Major regression test before release (every 4 month) 1200 scenarios (both UI / API) it takes 4 hours to run; Minor regression performed at the end of each sprint 300 scenarios take 1.5 hours</p>	<p>User Acceptance Testing (UAT)</p> <p>Determines if the system satisfies the client & business requirements.</p> <p>Verifying that the system can complete required tasks in a real-world operating environment.</p> <p>User Acceptance Testing (UAT) has 2 types: Alpha and Beta</p> <p>BLACK BOX TESTING WHO: End-User / Client or Automation Engineer ENV: Staging Env</p>	<p>White Box Testing</p> <p>Developers use their knowledge of system internals when testing the system.</p> <p>It requires a good understanding of the application's internal code and behavior.</p> <p>WHO: Developers APPLIES TO: Unit Testing, Integration Testing <i>(Some companies ask QA to perform integration testing)</i></p>
<p>Black Box Testing</p> <p>Testing the app without reference to the internal structure of the component or system.</p> <p>Testers treat the software as a black box, focusing solely on inputs and outputs.</p> <p>Is checking/testing an application without having any technical knowledge, code's logic, how the code works, or knowledge of the internal structure, etc.</p> <p>WHO: SDET & End-User / Client APPLIES TO: System Testing, UAT Testing</p>	<p>Positive Testing</p> <p>Determines the application works as expected with valid data and environment. Execute the positive test cases.</p> <p><i>Example:</i></p> <ul style="list-style-type: none"> - User login with valid credentials; - Admin upload files to the app; - User create an event on the calendar. 	<p>Negative Testing</p> <p>Ensures the application can gracefully handle invalid data or unexpected user behavior. Execute the negative test cases.</p> <p><i>Example:</i></p> <ul style="list-style-type: none"> - Users see "incorrect username" when entering invalid user data; - Students should not upload files, only the admin should.
<p>Waterfall Methodology</p> <p>Old / Traditional project management method.</p> <p>A sequential, activity-based process in which each phase in the SDLC is performed sequentially from planning through implementation and maintenance</p>  <pre> graph TD A[Requirements] --> B[Design] B --> C[Implementation] C --> D[Verification] D --> E[Maintenance] </pre>	<p>Agile Methodology</p> <p>Aims for customer satisfaction through early and continuous delivery of useful software components developed by an iterative process using the bare minimum requirements.</p>  <pre> graph TD 1[1) Requirements] --> 2[2) Design] 2 --> 3[3) Develop] 3 --> 4[4) Release] 4 --> 5[5) Track & Monitor] 5 --> 1 </pre>	<p>User Story</p> <p>A small requirement. It describes the app's functionalities that are needed to deliver value to a specific stakeholder.</p> <p>Each story should be INVEST: Independent, Estimable, Negotiable, Small, Valuable, Testable. <i>PO writes stories and collects them in the Product backlog..</i></p> <p>User story format: As a <User>, I want to <feature> so that <goal></p>

Regression Testing

**User Acceptance
Testing (UAT)**

White Box Testing

Black Box Testing

Positive Testing

Negative Testing

**Waterfall
Methodology**

**Agile
Methodology**

User Story