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| **Testing Approach** |
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| Testing is a product-oriented, preventive activity that aims to ensure identification of and resolution of defects in the application. Testing for Buggy Cars Rating will include a *Validation Testing* approach for existing content or a *Standard Testing* approach for new solutions. |
| ***Validation Testing*** checks that output satisfies the requirements specified in the data collection worksheets (DCW) and ensures that the work product is in scope, contributes to the intended benefits, and does not have undesirable side effects. Validation testing is performed by inspecting, simulating, or prototyping. |
| ***Standard Testing*** checks that a specification is properly implemented and is performed by executing the code. |
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| **Key Guiding Principles of the Testing Approach**: |
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| The Testing Strategy addresses all aspects of the testing and provides a guideline for planning, executing, and management of testing activities. The Test Methodology utilizes a multi-phased approach with entry and exit criteria, key activities, and deliverables for each of the activities to address key testing considerations. |
| ***Test Management:*** Test Management plans, monitors and controls the Process, Scope, and Environment aspects of the Product Testing Strategy. |
| ***Test Environment:*** Testing environments and infrastructure build is not treated as a one-time activity.  The Build, and code version needs to be continuously adjusted and scaled. Devices, equipment, facilities and overall provisioning along with tracking and communications is included in the Test Environment. |
| ***Test Scope:*** Determines the scope of tests with each testing event. |
| ***Test Process***: Includes the monitoring of test execution, and the defect management process, and managing the tracking and reporting progress of all testing activities including the management of resources and training needs. |