TEST STRATEGY

**TEST STRATEGY**

* *A test strategy is a guideline to be followed to achieve the test objective and execution of test types mentioned in the testing plan*
* *This is a high level document which is prepared by the project manager.*
* *This document is created for the entire product from the requirement analysis.*
* *Test strategy is only prepared once.*
* *It contains the scope and objective, business issues, testing approach, test deliverables, defect tracking approach, automation, and risks.*

**Sections in Test Strategy**

* *Introduction to to agile*
* *Guiding standards*
* *Requirement strategy*
* *Quality and Test objectives*
* *Test Scope*
* *Testing Types*
* *Test design strategy*
* *Test environment strategy*
* *Test execution strategy*
* *Test automation strategy*
* *Test management*
* *Risks and assumptions*
* *Defect management strategy*

**Introduction to to agile**

* *Iterative approach to software development*
* *Highly collaborative*
* *Guiding principles e.g. continuous design improvement*

**Guiding standards**

* *Shared responsibility*
* *Data management*
* *Test management*
* *Test automation*

**Requirement strategy**

**Quality and Test objectives**

* *Accuracy*
* *Integrity*
* *Maintainability*
* *Availability*
* *Interoperability*
* *Performance*

**Test Scope and Testing**

* *Unit testing*
* *Code analysis(static and dynamic)*
* *Integration testing, Feature and functional testing, data conversion testing*
* *System testing, security testing, environment testing*
* *Performance and availability testing*
* *Regression testing*
* *Acceptance testing*

**Test design strategy**

* *Specification based techniques(black box testing techniques)*
* *Structure based techniques(White box testing techniques)*
* *Experience based testing(exploratory testing)*

**Test environment strategy**

* *Development environment, Integration environment, Staging Environment, Production environment*.

**Test execution strategy**

* *Agile testing must be iterative.*
* *Testers cannot rely on having complete specification.*
* *Testers should be flexible.*
* *Have wide range of skills with one or more specialities.*
* *Focus on exploratory testing.*

**Test automation strategy**

* *Use a planned approach*
* *Increase the quality of test automation code*
* *Automate stable and high priority test case first*

**Test management**

**Risk and assumptions**

**Defect management strategy**

* *Defect classification( critical, major, minor or trivial)*
* *Defect life cycle*