**STLC & QA TESTING**

**1.MODELS OF SDLC**

**\*AGILE**

**\*WATERFALL**

**\*V SHAPED**

**\*ITERATIVE**

**\*SPIRAL**

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**2.STLC:**

**Software test life cycle**

**There are 6 phases of life cycle**

**1.Requirement analysis:**

**This phases is generally discussed with the testers and developers on user expectations.**

**2.Test planning: This is done by Test manager on efforts and cost estimations on the project.**

**3.Test case management: The tester has to write the test cases.**

**4.Test environment setup: usually the environment set up done by the system admin and testing team will analyze the quality of the product/applications**

**5.Test executions: Testers will test the test cases, solve all the defects and should be good to go .**

**6.Test closure: This is an Exit criteria, if customer accepts the product, done by managers and testers.**

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**3.Risk factors in Test plans:**

**1.tight timeline**

**2.undefined project scope**

**3.Insufficient resources**

**4.countinuously changing requirements**

**5.budget constraints**

**6.problems in integrations**

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**4.QA/QC**

**Qc is a subset of QA.**

**Qa is a defect prevention technique**

**While Qc is a reactive process**

**QA is an activity used to check if all the techniques are followed correctly to prevent the defect being araised.**

**But in QC ,once all the things are set ,we are going to test the software,to find any of the defect has been araised or not,and the we take necessary action to control the defect.**

**So As per my knowledge,Both QA/QC plays a vital role ,QA is the best solution to prevent the defects as it is process oriented than Qc funtions as it is product oriented.**

**5.Manual Testing/Automation testing**

**In manual testing, we perform the tests step by step without the help of tools whereas in automation testion tests are executed automaticallyusing automation tools.**

**manual testing needs human resources and its time consuming,and has risks for human error**

**Automation testing is faster ,and more reliable performed by tools and scripts**