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Testing Fundamentals

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1. Introduction to Quality Assurance
2. Software Development Life Cycle
3. Software Testing Life cycle
4. Testing Types
5. Testing Levels
6. Defect Life cycle

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1. Introduction to Quality Assurance

- What is testing?
- Who does testing?
- When to Start Testing and When to Stop Testing
- Difference between Testing and Debugging
- Testing Myths

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What is Testing...?

- Testing is the process of evaluating a system or its component(s) with the intent to find that whether it satisfies the specified requirements or not

- Testing is executing a system in order to identify any gaps, errors or missing requirements in conflicting to the actual requirements

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Who does Testing...?

- Software Tester
- Software Developer
- Project Lead/Manager
- End User

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When to start Testing?

- It is always better to start the application right from the beginning of SDLC rather than waiting for the testing phase.

- Once test plan, test cases etc... are written and approved

- Once the environment is ready

- Once the build is given to QA team to test

- Test data is ready.

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When to stop Testing?

- Completion of test case execution.
- Completion of Functional and code coverage to a certain point.
- Bug rate falls below a certain level and no high priority bugs are identified.
- Management decision.

Difference between Testing and Debugging

- **Testing**
  - It involves the identification of bug/error/defect in the software without correcting it..
  - Normally professionals with a Quality Assurance background are involved in the identification of bugs.

- **Debugging**
  - It involves identifying, isolating and fixing the problems/bug. .
  - Developers who code the software conduct debugging upon encountering an error in the code.

Testing Myths.....!!

- Testing cannot be started if the product is not fully developed
- Testing ensures 100% Defect free product.
- Missed defects are due to Testers.
- Testers should be responsible for the quality of a product.
- Test Automation should be used wherever it is possible to use it and to reduce time.
- Automated testing is more powerful than manual testing
- Any one can test a Software application
- A tester’s task is only to find bugs

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