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Software Testing

What is Software testing ?

It can be stated as the process of validating and verifying that a **software** program or application or product where it **meets** the business and technical **requirements** of the client which has no **bugs and errors.**

Categories in Software Testing..

-Manual Testing

-Automation Testing

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Why Testing ?

Why does s/w have bugs ?

- **No communication or miscommunication**
- **Time pressure**
- **Software complexity**
- **Programming mistakes**

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Testing Techniques

Black Box Testing

No knowledge of internal programing design or code is required.

Tests are based on requirements and functionality.

White Box Testing

Knowledge of internal programing and code is required

Tests are based on coverage of codes and conditions

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Test Cases

Unit Test Cases

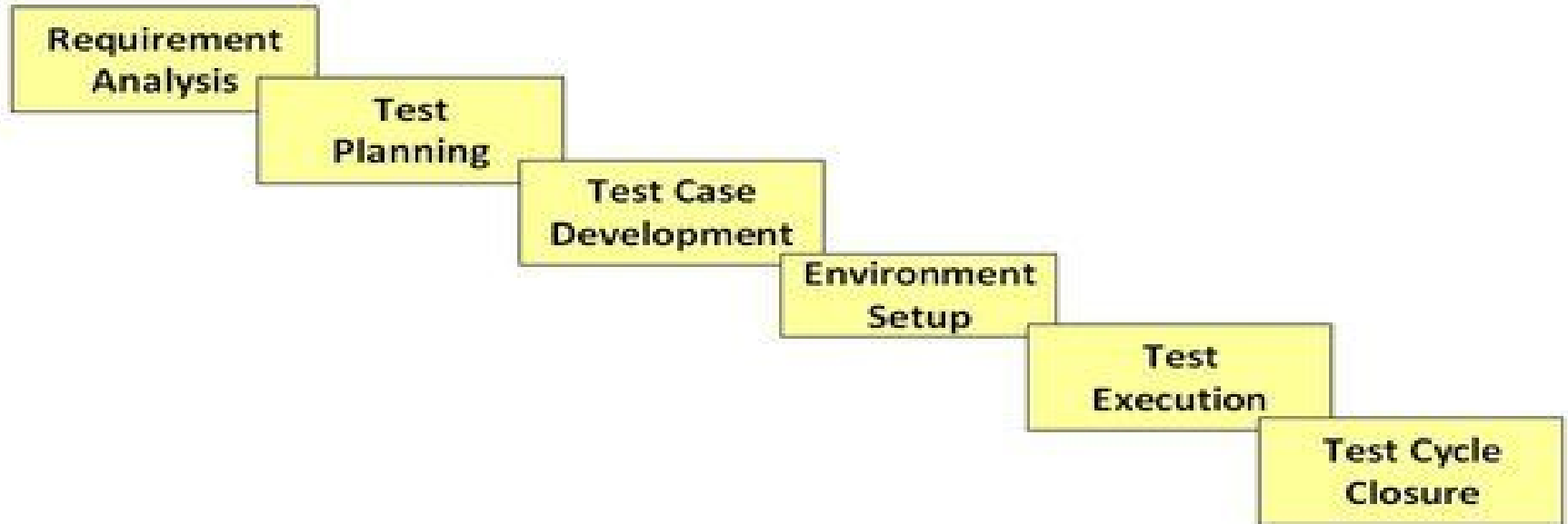## Functional Test cases

Levels of testing

Levels of Testing:

- Unit Testing(Done by Developers)
- Integration Testing(Combining two or more modules)
- System Testing (Testing full application based on the requirements)
- User Acceptance Testing (Based on the user needs and testing will be done in client place)

Software Testing Life Cycle

Bug Life Cycle

1. New/open
2. Assigned
3. Fixed
4. Retest
5. Reopen
6. close

THANK YOU

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