

# Software Testing LifeCycle

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Subject :- Software Testing

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# Types and Scopes of Testing

- ❖ Manual Testing
  - Tests conducted manually by testers/users
  - Testing pace is comparatively slower
- ❖ Automated Testing
  - Tests conducted in automated environments
  - Testing pace is very fast
- ❖ Functional Testing
  - Testing components for their usage
    - Features
    - Adaptability of component
- ❖ Non Functional Testing
  - Testing components as whole
    - Data flow
    - Compatability
    - Resource Utilization
    - Load and Stress

# Levels of Testing

- ❖ Unit Testing
- ❖ Integrated Testing
- ❖ System Testing

# Initial Steps

- ❖ Requirement Analysis
- ❖ Planning the tests
- ❖ Designing Test Cases
- ❖ Setting up Testing Environments



# Conducting Tests

- Run Tests
  - Run tests using use cases
  - Give accurate variables and input for every designed scenario
- Track Defects
  - Analyse the issues yielded
  - Maintain a record
- Regression Tests
  - Re-conduct the tests once the issues have been solved
  - Test the entire system as whole

# Pre Deployment UAT

- Users Team
  - Gather potential users of the product for testing
  - Guide them to use the product thoroughly on the user's end
- Activity Analysis
  - Analyse and identify the issues arose during user activity
  - Report and record the bugs/errors
- Deployment
  - Once UAT has yielded bug-free results, push the components to deployment.