

Software Testing Notes

1. What is Software Testing?

Software Testing is the process of checking whether the software works correctly, has no bugs, meets requirements, and is user-friendly.

2. Why Testing is Important?

- Ensures quality
- Saves time & money
- Prevents failures
- Builds customer trust

3. Types of Testing

A. Manual Testing

B. Automation Testing

C. Functional Testing

D. Non-Functional Testing

4. Levels of Testing

- Unit Testing
- Integration Testing
- System Testing
- User Acceptance Testing (UAT)

5. STLC (Software Testing Life Cycle)

1. Requirement Analysis

2. Test Planning

3. Test Case Development

4. Environment Setup

5. Test Execution

6. Test Closure

6. Test Case Example

Test Case ID: TC_LOGIN_01

Scenario: Validate login with valid credentials.

7. Bug Life Cycle

New → Assigned → Open → Fixed → Retest → Verified → Closed → Reopen

8. Tools

Manual: Jira, TestRail

Automation: Selenium, Playwright, Cypress

API Testing: Postman

9. Beginner Roadmap

1. Basics

2. STLC & SDLC

3. Test cases & bug reports

4. API Testing

5. SQL

6. Automation tools

7. Git & Jira

8. Projects & resume