

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