

SNS COLLEGE OF TECHNOLOGY

Kurumbapalayam (Po), Coimbatore – 641 035

An Autonomous Institution

Accredited by NAAC – UGC with ‘A++’ Grade

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

**COURSE NAME: 23ITO201- Software Testing
(OPEN ELECTIVE)**

III YEAR / VI SEMESTER

1

Unit 4 - TEST MANAGEMENT

Topic : Testing Services and Test Planning , Test Plan Components

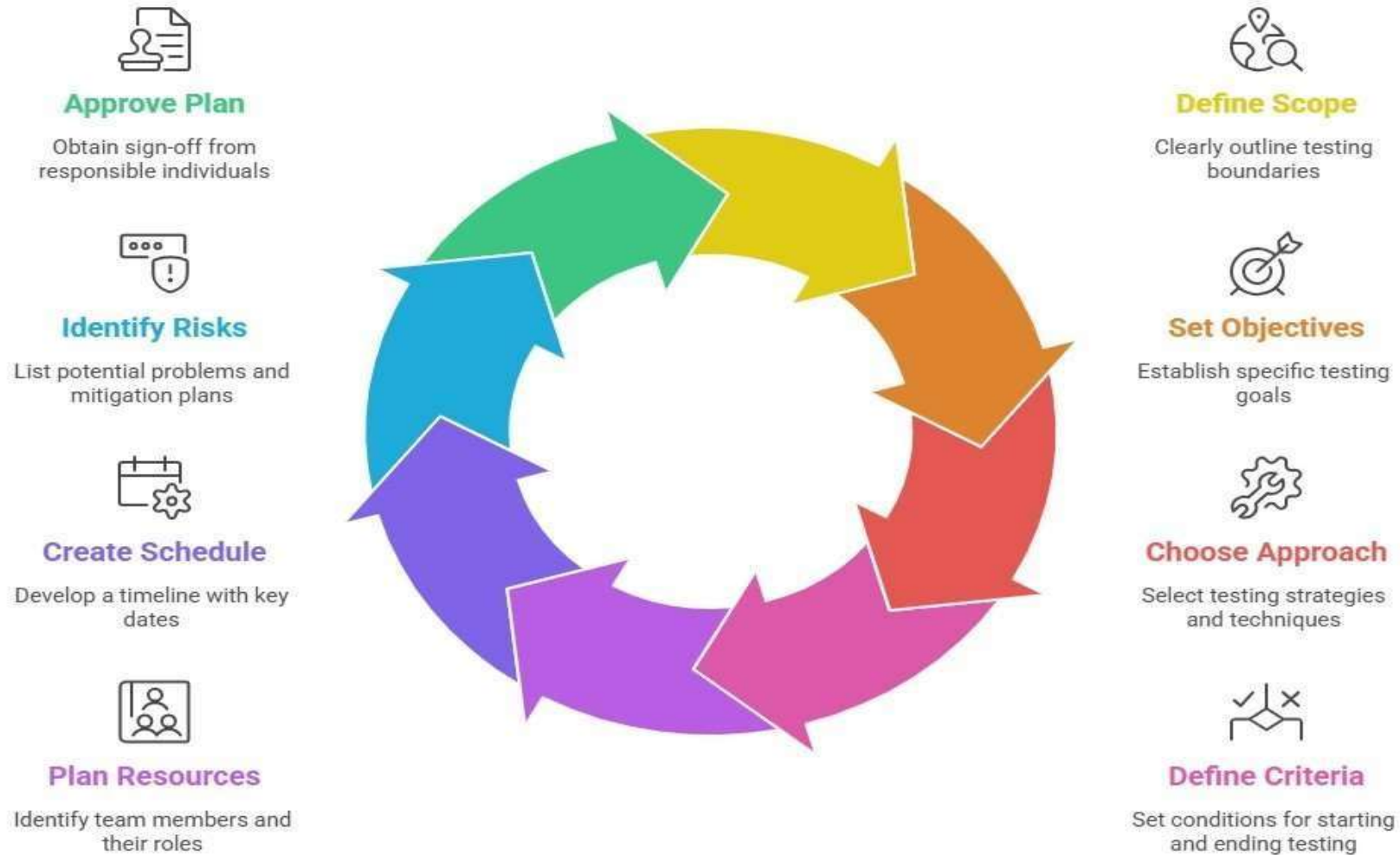
Empathy in Developing a Software Test Plan



Achieving Effective Test Planning



Test Plan Component Cycle

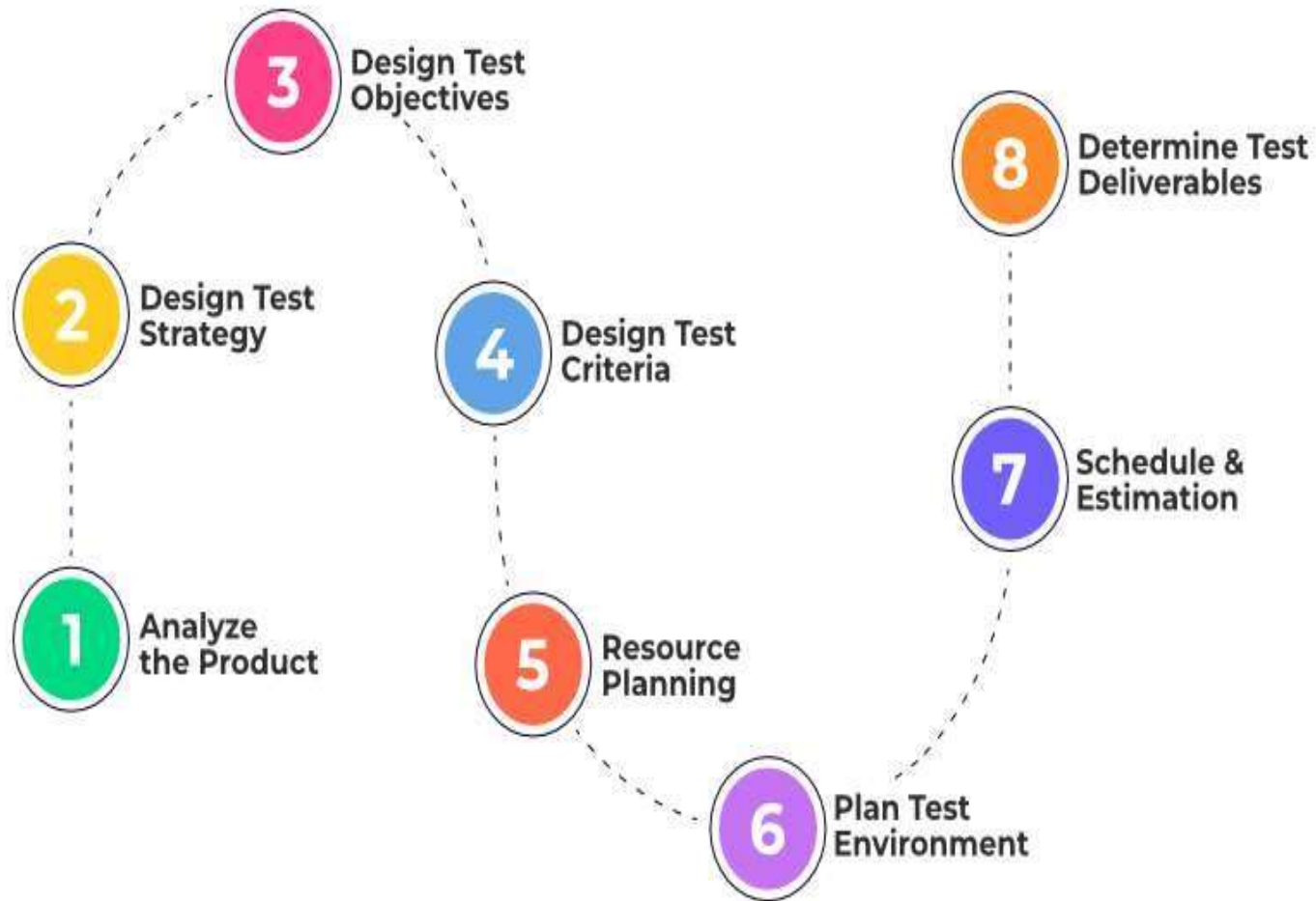


Factors	Roles
Who writes Test Plans?	Test lead, Test Manager, Test Engineer
Who reviews the Test Plan?	Test Lead, Test Manager, Test Engineer, Customer, Development Team
Who approves the Test Plan?	Customer, Test Manager
Who writes Test Cases?	Test Lead, Test Engineer
Who reviews Test Cases?	Test Engineer, Test Lead, Customer, Development Team
Who approves Test Cases?	Test Manager, Test Lead, Customer

Types of Test Plan



How to create a Test Plan?



Grouping test runs

Test plan creation

ID	TITLE	DURATION	PROGRESS
TP11	GA Release This will track July release for Login feature	Aug 31, 2023 - Nov 17, 2023 13 days left	<div style="width: 50%;"><div style="background-color: #28a745; height: 10px;"></div></div>
TP13	Test Plan August Release 1.1 Epic for Design fixes in August	Oct 25, 2023 - Nov 06, 2023 7 days left	<div style="width: 70%;"><div style="background-color: #28a745; height: 10px;"></div></div>
TP14	Filter Enhancement (Part of Sprint 13)	Oct 05, 2023 - Nov 14, 2023 3 days overdue	<div style="width: 60%;"><div style="background-color: #ffc107; height: 10px;"></div></div>

Create Test Plan

Title*

Start Date End Date

Description

Jira Issues

Example : Test Plan

Activity

Activity 2: Build a Test Plan (Group Activity)

Task:

Divide into groups and create a **Test Plan** for a **Library Management System**.

Instructions:

Each group must define:

- 1.Objective of testing
- 2.Scope (what to test / not test)
- 3.Testing approach
- 4.Resources required
- 5.Schedule

Presentation:

Each group presents their plan in 3–5 minutes.

Section	Details
Test Plan Title	Module or Feature Name – Platform/Version
Prepared By	Name of the person preparing the test plan
1. Introduction	Brief summary of what is being tested and the purpose of this test plan
2. Testing Resources	Name and role of each tester involved in the test effort
3. Scope of Testing	In Scope: Features/modules covered Out of Scope: Features/modules excluded
4. Test Items	Specific flows, APIs, or components being tested
5. Testing Approach	Methodology used (manual, automation, or both) Types of testing: functional , UI , performance , security, accessibility
6. Test Environment	Devices, OS versions, tools, emulators/simulators, and any required setup
7. Test Schedule	Define timeframes for planning, execution, defect resolution, and reporting
8. Entry & Exit Criteria	Entry Criteria: Start the test when the environment is set up, the build is stable, and the necessary test data is ready for execution. Exit Criteria: End the test when all critical issues are resolved, required test coverage is achieved, and the test results are reviewed and approved.
9. Risks & Mitigation	List key risks or blockers and create contingency plans
10. Deliverables	Test cases, defect reports, execution logs, final summary report

MCQs: Testing Services & Test Planning

◆ Section A: Testing Services

1. Which testing service checks system performance under heavy load?

- A) Functional Testing
- B) Usability Testing
- C) Performance Testing
- D) Security Testing

Answer: C

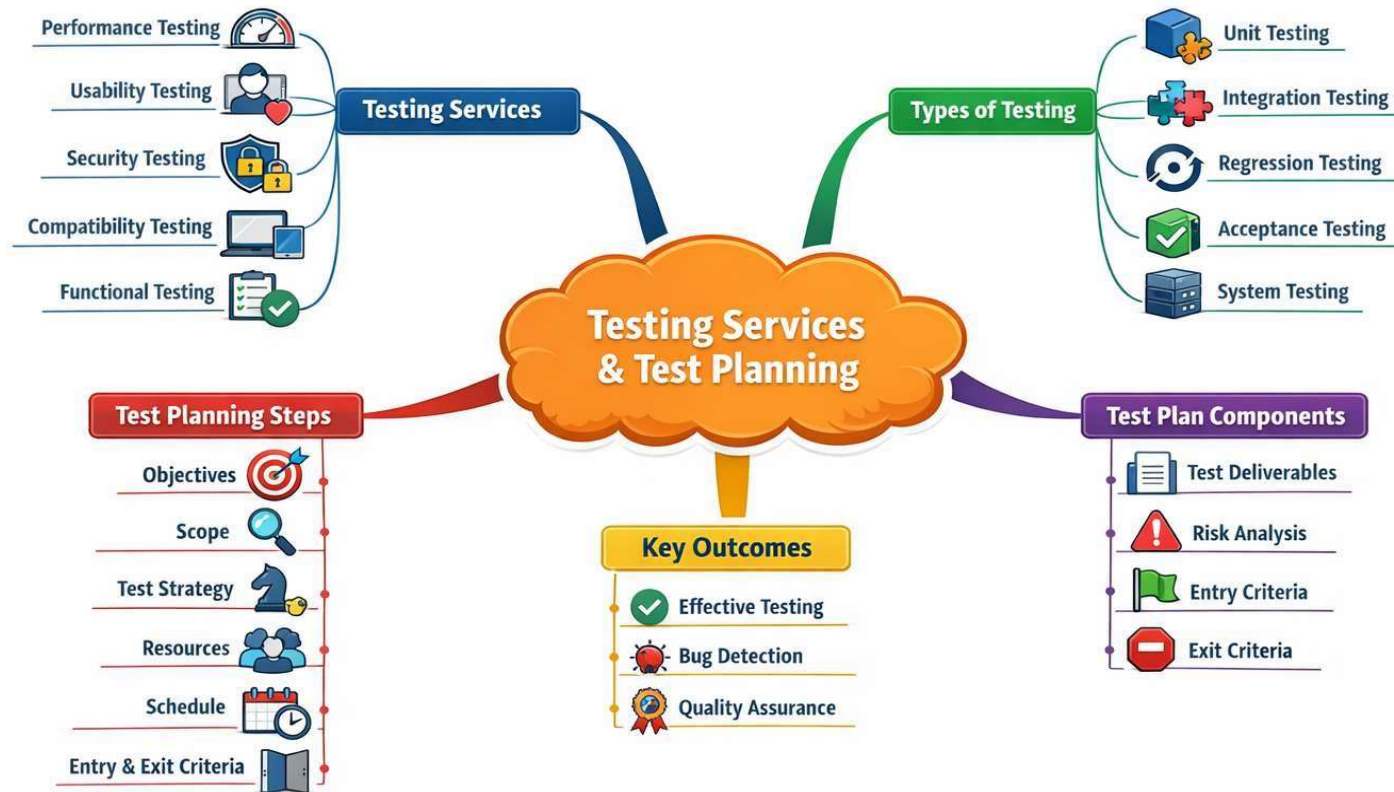
2. Which testing ensures the software is user-friendly?

- A) Security Testing
- B) Usability Testing
- C) Compatibility Testing
- D) Unit Testing

Answer: B

11

MINDMAP



TEXT BOOKS	
1.	Srinivasan Desikan and Gopalaswamy Ramesh, —Software Testing – Principles and Practices, Pearson Education, 2006.
REFERENCES	
1.	Ilene Burnstein, —Practical Software Testing, Springer International Edition, 2003
2.	Edward Kit, Software Testing in the Real World – Improving the Process, Pearson Education, 1995
3.	Boris Beizer, Software Testing Techniques – 2nd Edition, Van Nostrand Reinhold, New York, 1990.
4.	Aditya P. Mathur, —Foundations of Software Testing _ Fundamental Algorithms and Techniques, Dorling Kindersley (India) Pvt. Ltd., Pearson Education, 2008.

THANK YOU!

14