What is a test plan?

🡪A test plan is a detailed document that outlines the steps, objectives, and strategy for testing a software product. It also includes the resources needed for testing, such as human resources, software, and hardware.

**🡪**The five most important elements of a test plan are: Test strategy, Objectives, Schedule, Estimates, Deadlines.

🡪A test plan is a base for every software's testing. It helps determine how much effort is needed to validate the quality of the application being tested.

1.Test Scope: Defines the scope of testing, including the features, functionalities, and components of the software product or system that will be tested.

2.Test Objectives: Specifies the goals and objectives of testing, such as validating functional requirements, verifying performance metrics, or assessing usability aspects.

3.Test Approach: Describes the overall approach and strategies for testing, including the types of testing to be performed (e.g., unit testing, integration testing, system testing) and the testing techniques to be employed.

4.Test Environment: Details the hardware, software, tools, and resources required for testing, including test environments, test data, and any third-party dependencies.

5.Test Deliverables: Lists the documents, reports, and artifacts to be produced as part of the testing process, such as test cases, test scripts, test reports, and defect logs.

6.Test Schedule: Outlines the timeline and milestones for testing activities, including the start and end dates, testing phases, and key milestones (e.g., test planning, test execution, test closure).

7.Test Responsibilities: Assigns roles and responsibilities to individuals or teams involved in the testing process, including testers, developers, project managers, and other stakeholders.

8.Risks and Mitigation Strategies: Identifies potential risks and challenges associated with testing and outlines mitigation strategies to address them.

9.Approvals and Sign-off: Specifies the process for obtaining approvals and sign-off from relevant stakeholders, including the criteria for acceptance and readiness for release.

10. Test Strategy: Its high level plan consisting of principles that guide the overall software testing process.

**Test Case:**

A test case is a document that contains a set of instructions to test a specific feature or functionality in software. The test case includes the steps, data, prerequisites, postconditions & expected results necessary to verify a feature.

Steps: The steps required to verify a feature.

Data: The data required to verify a feature

Pre-requisites: The pre-requisites required to verify a feature.

Post conditions: The post conditions required to verify a feature.

Expected results: The expected results of a test scenario.

**Test case template**: