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**Software Testing Day 9 – Defect Reporting**

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# Agenda

- User Acceptance Testing
- Importance of UAT
- Scope of UAT
- Alpha Testing
- Beta Testing



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## User Acceptance Testing

**User Acceptance Testing (UAT) is defined as testing the software by the user or client to determine whether it can be accepted or not.**

**This is the final testing performed once the functional, system and regression testing are completed.**

**The main purpose of this testing is to validate the software against the business requirements.**

**This validation is carried out by the end-users who are familiar with the business requirements.**

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## User Acceptance Testing

- Is the software suited to the end-users' needs?
- Does the software behave as they expected?
- Do they encounter problems using it? (Think about workflow differences/user compatibility)

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## User Acceptance Testing - Need

- **Protection against Faults:** UAT protects against the release of faulty, ineffective, or unfinished software products.
- **Bug Less SW:** UAT should be thorough and reflect user requirements to ensure that the software is not released with bugs. These issues can be costly and potentially damaging to the reputation of the software vendor.
- **Proper Testing -**In order for testing to work, each client must be tested against all available network connections with an equal probability and subject them at the end if they accept it – regardless of how many messages are sent without receiving one response back from our server
- **A key benefit of good UAT is that it keeps ongoing maintenance costs as low as possible. It's cheaper to fix functionality and usability issues early**

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## User Acceptance Testing - Types

### Types of User Acceptance Testing

1. Alpha UAT
2. Beta UAT
3. Operational Acceptance Testing (OAT)
4. Contract Acceptance Testing
5. Regulation AT

Notes



## User Acceptance Testing - Alpha

**Alpha UAT -Alpha UAT means that your user is tested before they get a hold of the product, so if you're testing users' usage patterns we recommend running an alpha test to ensure it can pass all acceptance tests prior to when beta gets deployed into production.**

- It enables more rapid validation in early adopters/testers which allows fast adjustments as the software progresses through development with each release cycle toward feature maturity.**
- It ensures that there is no opportunity for bugs or exploits once security updates become available based upon adoption levels achieved by products launched later during their life cycle such should be done at least six months after launch.**

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## User Acceptance Testing - Beta

- **Beta UAT means that users who have successfully completed one or more rounds of tests will be shown a popup stating if they are accepted for testing by the new version of Angular2 (a beta release).**
- **The application is tested in a natural environment.**
- **It reduces risks, and failures, and improves the quality of the product through customer feedback.**

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## User Acceptance Testing - Operational Acceptance Testing (OAT)

- **Operational Acceptance Testing (OAT)** is a software testing technique that evaluates a software application's operational readiness prior to release or production.
- The goal of operational acceptance testing is to ensure system and component compliance as well as the smooth operation of the system in its Standard Operating Environment (SOE).
- OAT Testing (Operational Acceptance Testing) is also known as Operational Readiness Testing (ORT) or Operational Testing.
- These test cases guarantee there are work processes set up to permit the product or framework to be utilized.
- This ought to incorporate work processes for reinforcement plans, client preparation, and different support cycles and security checks.

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## User Acceptance Testing - Contract Acceptance Testing

- **Contract Acceptance Testing refers to the process of testing developed software against predefined and agreed-upon criteria and specifications.**
- **When the project team agrees on the contract, they define the relevant criteria and specifications for acceptance.**

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## User Acceptance Testing - Regulation AT

- Regulation AT is generally called Compliance AT.
- This sort of affirmation testing is done to guarantee the thing dismisses no rules and rules that are set by the regulating associations of the particular country where the thing is being conveyed.
- Generally, things that are available from one side of the planet to the other should go through this testing type considering the way that different countries have different standards and rules set by discrete directing associations.

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## User Acceptance Testing Vs System Testing

Parameters	UAT	System Test
Testing Method	It is based on User Convenience and Feedback. Testing is done on the basis of meeting customer requirements.	It is based on the System/Feature Milestone – Testing done on the basis of meeting system/specs requirements.
Usage	UAT is done by Clients, Stakeholders, and Testers.	System testing is done by the Developer and Testers.
Types	Alpha UAT, Beta UAT, Operational acceptance testing, Contract AT, Regulation AT.	System and Integration Tests.
Test Cases	Test cases here include positive scenarios.	True and False (+/-) Test cases.
Testing Methodology	The testing methodology of UAT is based on Functional Tests.	Functional / Performance/ Other Tests.
Order of Execution	UAT is done after System Test.	The system Test is done first.

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## User Acceptance Testing Vs System Testing

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## User Acceptance Testing Prerequisites

- Business Requirements must be available.
- Application Code should be fully developed
- Unit Testing, Integration Testing & System Testing should be completed
- No Showstoppers, High, Medium defects in System Integration Test Phase –
- Only Cosmetic error is acceptable before UAT
- Regression Testing should be completed with no major defects
- All the reported defects should be fixed and tested before UAT
- Traceability matrix for all testing should be completed
- UAT Environment must be ready
- Sign off mail or communication from System Testing Team that the system is ready for UAT execution

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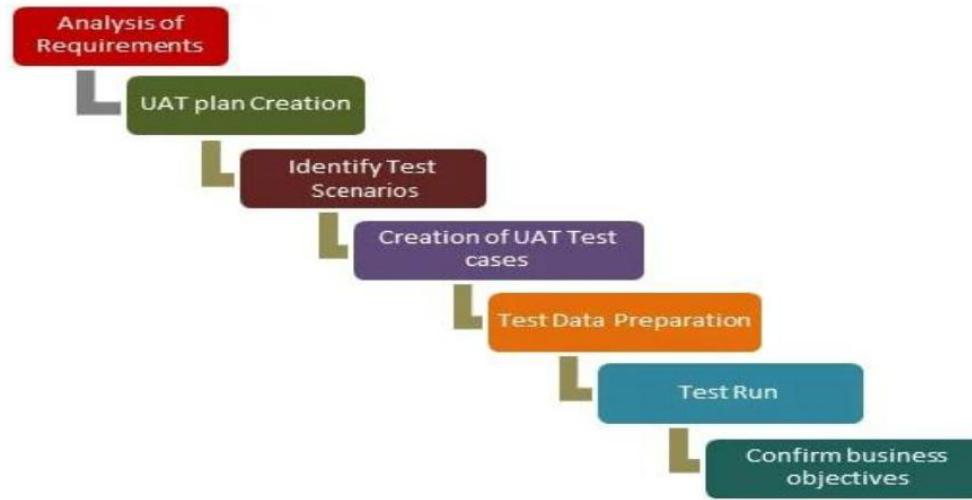
## User Acceptance Testing Prerequisites

### How to execute UAT Tests

UAT is done by the intended users of the system or software. This type of Software Testing usually happens at the client location which is known as Beta Testing. Once Entry criteria for UAT are satisfied, following are the tasks need to be performed by the testers

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## User Acceptance Testing Prerequisites



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## User Acceptance Testing Prerequisites

### Step 1) Analysis of Business Requirements

One of the most important activities in the UAT is to identify and develop test scenarios. These test scenarios are derived from the following documents:

- Project Charter
- Business Use Cases
- Process Flow Diagrams
- Business Requirements Document(BRD)
- System Requirements Specification(SRS)

Notes



## User Acceptance Testing Prerequisites

### Step 2) Creation of UAT Plan:

The UAT test plan outlines the strategy that will be used to verify and ensure an application meets its business requirements. It documents entry and exit criteria for UAT, Test scenarios and test cases approach and timelines of testing.

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User Acceptance Testing Prerequisites

Step 3) Identify Test Scenarios and Test Cases:

Identify the test scenarios with respect to high-level business process and create test cases with clear test steps. Test Cases should sufficiently cover most of the UAT scenarios. Business Use cases are input for creating the test cases.

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## User Acceptance Testing Prerequisites

### Step 4) Preparation of Test Data:

It is best advised to use live data for UAT. Data should be scrambled for privacy and security reasons. Tester should be familiar with the database flow.

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## User Acceptance Testing Prerequisites

### Step 5) Run and record the results:

Execute test cases and report bugs if any. Re-test bugs once fixed. Test Management tools can be used for execution.

Notes



## User Acceptance Testing Prerequisites

### Step 6) Confirm Business Objectives met:

Business Analysts or UAT Testers needs to send a sign off mail after the UAT testing. After sign-off, the product is good to go for production. Deliverables for UAT testing are Test Plan, UAT Scenarios and Test Cases, Test Results and Defect Log

Notes



## User Acceptance Testing – Entry / Exit criteria for UAT

**Entrance Criteria Define the test situations or criteria that must be in place before a specific test is performed, e.g,**

- 1. Requirements, design, and specifications have been approved.**
- 2. UAT Plan has been approved.**
- 3. Unit testing and system testing have been completed.**
- 4. UAT test scripts have been written and reviewed before execution.**

Notes



## User Acceptance Testing – Entry / Exit criteria for UAT

### Exit Criteria

Define what needs to be performed (i.e., criteria) to consider the testing finished, e.g.,

1. All test scripts have been executed, reviewed, and approved.
2. All incidents identified during UAT testing were logged and resolved.
3. Regression testing was performed for all resolved incidents.

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## User Acceptance Testing – Test Deliverables

**UAT test deliverables include the following documents:**

- **The User Acceptance Test Plan.**
- **Test scripts with supporting documentation (e.g., tester, test dates, results, incidents, logs.)**
- **UAT Traceability Matrix (if applicable).**
- **The UAT Summary Report**

Notes



## User Acceptance Testing - Qualities of UAT Testers

UAT Tester should possess good knowledge of the business. He should be independent and think as an unknown user to the system.

Tester should be Analytical and Lateral thinker and combine all sort of data to make the UAT successful.

Tester or Business Analyst or Subject Matter Experts who understand the business requirements or flows can prepare test and data which are realistic to the business.

Notes



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Notes



## User Acceptance Testing - Best Practices

Following points needs to be considered to make UAT Success:

- Prepare UAT plan early in the project life cycle
- Prepare Checklist before the UAT starts
- Conduct Pre-UAT session during System Testing phase itself
- Set the expectation and define the scope of UAT clearly
- Test End to End business flow and avoid system tests
- Test the system or application with real-world scenarios and data
- Think as an Unknown user to the system
- Perform Usability Testing
- Conduct Feedback session and meeting before moving to production

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User Acceptance Testing –Test Plan document

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User Acceptance Testing – Alpha testing

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The main objective of alpha testing is to refine the software product by finding and fixing the bugs that were not discovered through previous tests.

Alpha Testing is a type of software testing performed to identify bugs before releasing the software product to the real users or public

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User Acceptance Testing – Scope

User Acceptance Testing addresses the broadest scope of requirements; therefore, the UAT must cover the following areas:

Operational Requirements ensure requirements for data capture, data processing, data distribution and data archiving are met.

Functional Requirements ensure all business functions are performed as per the business rules.

Interface Requirements ensure all business systems linked to the software system in UAT pass and receive data or control as defined in the requirements specification.

The user, with limited help from the developers, is responsible for:

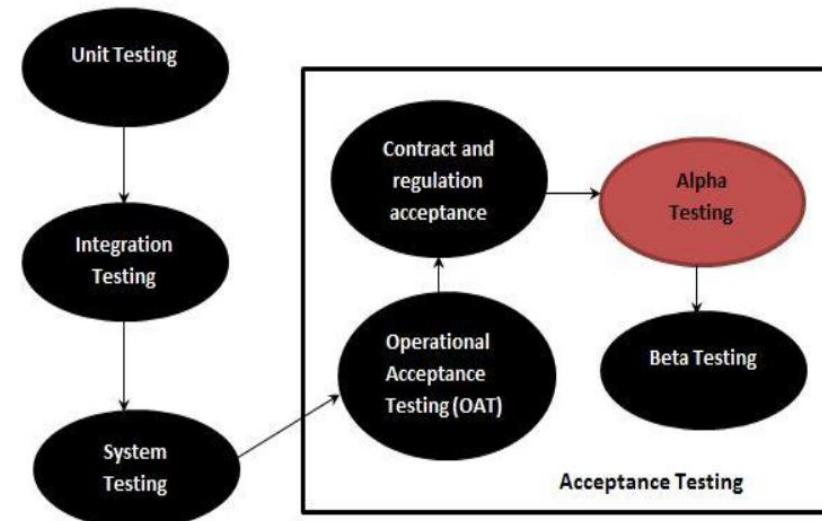
- Planning tests
- 2. Executing tests
- 3. Reporting and clearing incidents

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## User Acceptance Testing – Alpha testing



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## User Acceptance Testing – Alpha testing

### How do we run it?

**In the first phase of alpha testing, the software is tested by in-house developers during which the goal is to catch bugs quickly.**

**In the second phase of alpha testing, the software is given to the software QA team for additional testing.**

**Alpha testing is often performed for Commercial off-the-shelf software (COTS) as a form of internal acceptance testing, before the beta testing is performed.**

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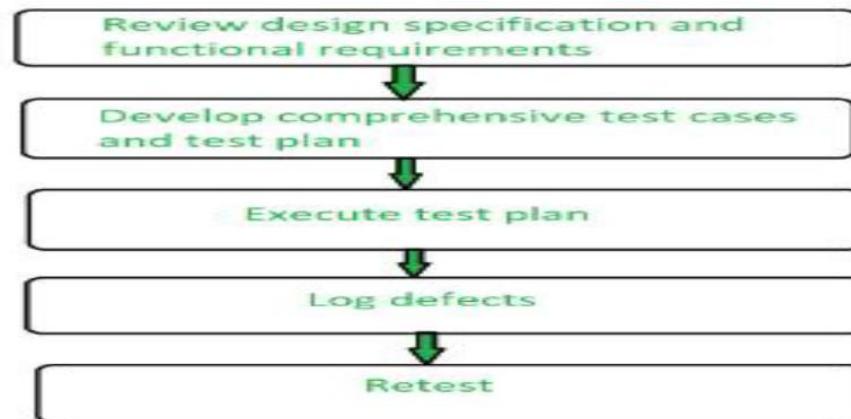
## User Acceptance Testing – Alpha testing

### Alpha Testing Process:

1. Review the design specification and functional requirements.
2. Develop comprehensive test cases and test plans.
3. Execute test plan
4. Log defects
5. Retest once the issues have been fixed

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## User Acceptance Testing – Alpha testing



### Phases of Alpha Testing:

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## User Acceptance Testing – Alpha testing

### Advantages of Alpha Testing:

- Better insight about the software's reliability at its early stages.
- Free up your team for other projects.
- It reduces delivery time to market.
- Early feedback helps to improve software quality.

Notes



## User Acceptance Testing – Alpha testing

### Disadvantages of Alpha Testing:

- It will need a longer time for test plan execution if the project is large.
- Sometimes, the defects in the products can be unknown during this alpha testing.
- It is difficult to test the entire product since it is still under development.
- For smaller projects, time spent on alpha testing is not worthy enough.
- It does not carry out reliability and security testing.
- This test will only cover the business requirements mentioned by the client. The project team will not go through the deep testing of each and every module.
- It requires a separate lab environment for testing.

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## User Acceptance Testing – beta testing

**Real users perform this testing.**

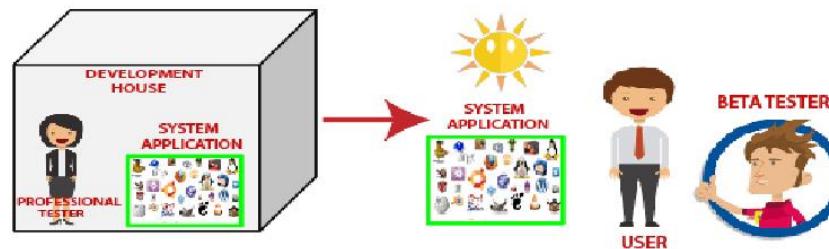
**This testing executed after the alpha testing. In this the new version, beta testing is released to a limited audience to check the accessibility, usability, and functionality, and more.**

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## User Acceptance Testing – beta testing



BETA TESTING OF THE PRODUCT IN  
REAL WORLD ENVIRONMENT

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User Acceptance Testing – beta testing

## Features of beta testing

- Beta testing used in a real environment at the user's site. Beta testing helps in providing the actual position of the quality.
- Testing performed by the client, stakeholder, and end-user.
- Beta testing always is done after the alpha testing, and before releasing it into the market.
- Beta testing is black-box testing.
- Beta testing performs in the absence of tester and the presence of real users
- Beta testing is performed after alpha testing and before the release of the final product.
- Beta testing generally is done for testing software products like utilities, operating systems, and applications, etc.

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## User Acceptance Testing – beta testing

What is a beta version of the software?

1) Closed beta version: Closed beta version, also known as a private beta, it is released to a group of selected and invited people. Those people will test the software and evaluate their features and specifications. This beta version represents the software which is capable of delivering value, but it is not ready to be used by everyone. Because it shows the issues like lack of documentation or missing vital features.

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## User Acceptance Testing – beta testing

CLOSED BETA

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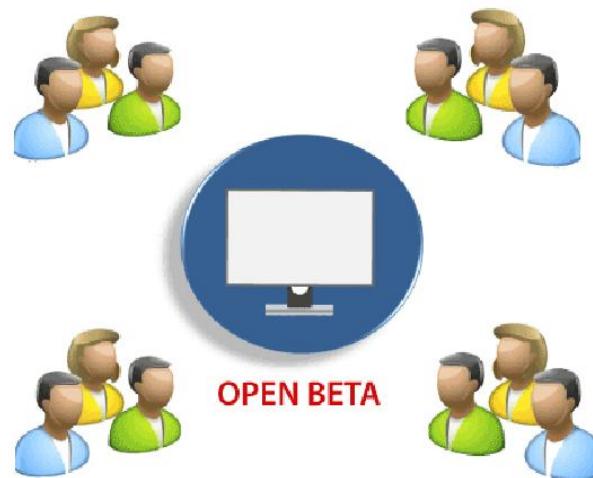
## User Acceptance Testing – beta testing

2) Open beta version: Open beta is also known as a public beta. The open beta opened to the public. Any user as a tester can assess the beta version to provide the relevant feedback and reviews. Open beta version improves the quality of the final release. This version helps to find the various undetected errors and issues.

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## User Acceptance Testing – beta testing



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## User Acceptance Testing – beta testing

### What is the lifecycle of Beta Testing?

The process of beta testing follows the following steps:

1. Planning: Like another testing process, beta testing also supports proper planning. In this stage, the team prepares a testing strategy and defines the goal of testing. In this case, the team establishes the need of users for testing, duration, and necessary details related to the process.
2. Participant Recruitment: This is the second stage of the beta process in which the team recruits a group of selected end-users for testing. This group can change as per the requirement of the organization and the product.

3. Product Launch: When a team of users (testers) recruited. The beta version of the product is launched or installed at the client or user side, and users will test the product for quality assurance.

4. Collect and Evaluate Feedback: When the testing finished, developers will collect the feedback provided by the testers and evaluate it. In the end, based on the feedback, issues, and bugs are fixed and resolved by the responsible individual team.

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## User Acceptance Testing – beta testing

What are the entry criteria for Beta Testing?

- Sign off the document from alpha testing.
- Beta version of the software should ready.
- The environment should be ready to release the software application to the public.
- To capture the real-time faults environment should be ready.

What are the exit criteria for Beta Testing?

- All the major and minor issues resolved.
- The feedback report should prepare.
- The delivery of beta test summary report.

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## User Acceptance Testing – beta testing

### What are the disadvantages of Beta Testing?

Disadvantages of beta testing is:

- 1.In this type of testing, a software engineer has no control over the process of the testing, as the users in the real-world environment perform it.
- 2.This testing can be a time-consuming process and can delay the final release of the product.
- 3.Beta testing does not test the functionality of the software in depth as software still in development.
- 4.It is a waste of time and money to work on the feedback of the users who do not use the software themselves properly.

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User Acceptance testing – beta testing

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What are the advantages of Beta Testing?

Beta testing performed at the end of the software testing lifecycle. Beta testing offers numerous benefits to testers, software developer, as well as the users. In the assistance of this type of testing, it enables developers, testers to test the product before its release in the market. The

- 1.Beta testing focuses on the customer's satisfaction.
- 2.It helps to reduce the risk of product failure via user validations.
- 3.Beta testing helps to get direct feedback from users.
- 4.It helps to detect the defect and issues in the system, which is overlooked and undetected by the team of software testers.
- 5.Beta testing helps the user to install, test, and send feedback regarding the developed software.

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