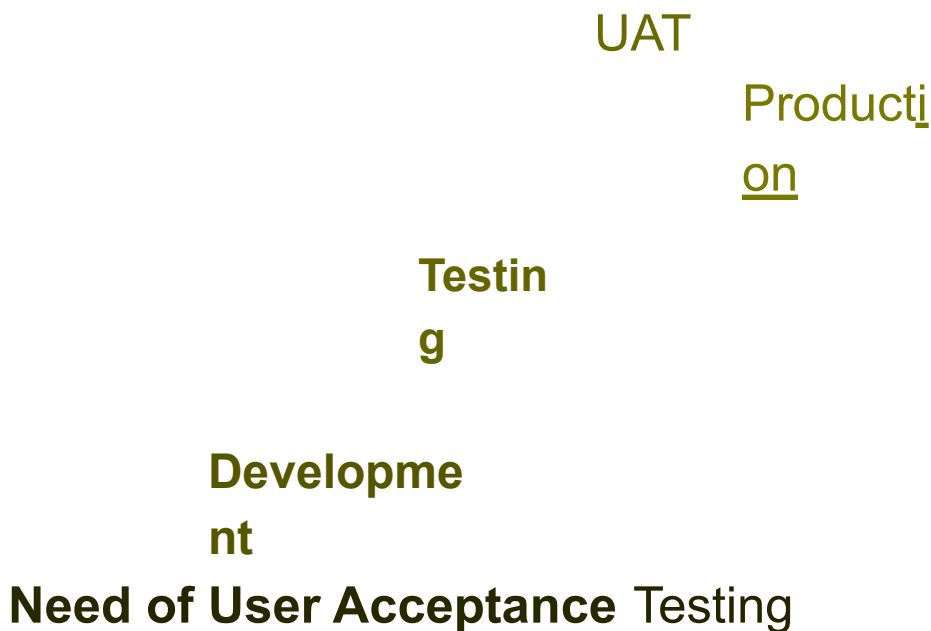Team id :
PNT2022TMID46283
Date : 15 November
2022

What is UAT?

User Acceptance Testing (UAT) is a type of testing performed by the end user or the client to verify/accept the software system before moving the software application to the production environment. UAT is done in the final phase of testing after functional, integration and system testing is done.

UAT

user acceptance

testing

Purpose of UAT

UAT

Producti
on

**Testin
g**

**Developme
nt**

Need of User Acceptance Testing

Need of User *Acceptan*ce Testing arises once
software has undergone Unit, Integration and
System testing because developers might have
built software based on requirements document
by their own understanding and further required
changes during development may not be
effectively communicated to them, so for testing
whether the final product is accepted by
client/end-user, user acceptance testing is
needed.

- Developers have included features on their "own" understanding

- Requirements changes "not communicated" effectively to the developers

Acceptance Testing and V Model

In VModel, User acceptance testing corresponds to the requirement phase of the Software Development life cycle(SDLC).
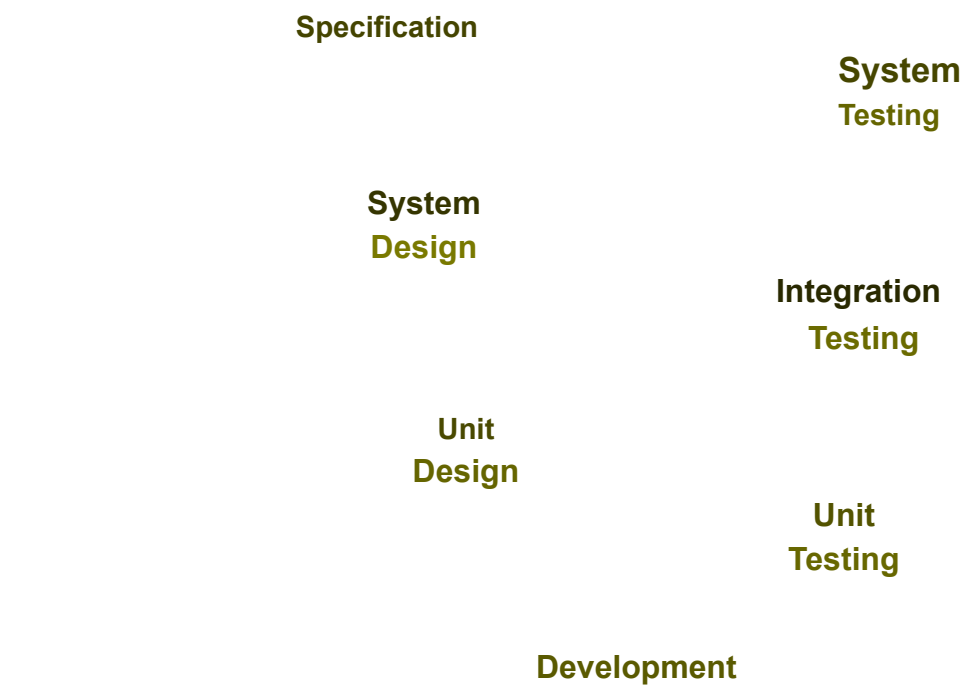
Business Case

Release Testing

Requirements

Acceptance Testing

System

Specification

System
Testing

System
Design

Integration
Testing

Unit
Design

Unit
Testing

Development

Prerequisites of User Acceptance Testing:

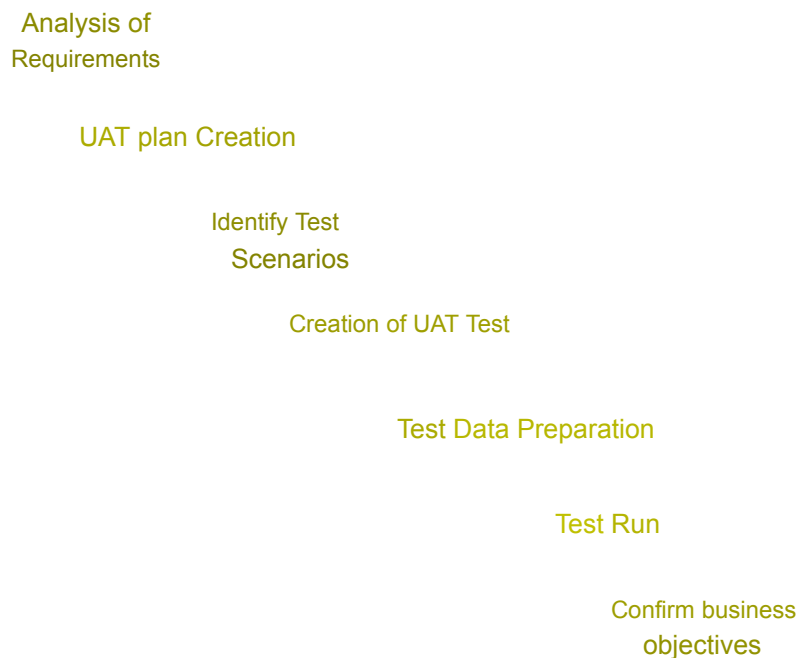Following are the entry criteria for User
Acceptance Testing:

• Business Requirements must be

available. Application Code should be fully
developed

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:

Analysis of Requirements

UAT plan Creation

Identify Test Scenarios

Creation of UAT Test

Test Data Preparation

Test Run

Confirm business objectives

UAT Process

- Analysis of Business Requirements

- Creation of UAT test plan

- Identify Test Scenarios

- Create UAT Test Cases

- Preparation of Test Data(Production like Data)

- Run the Test cases

UAT Tools

There are several tools in the market used for User acceptance testing and some are listed for reference:

Fitness tool: It is a Java tool used as a testing engine. It is easy to create tests and record results in a table. Users of the tool enter the formatted input and tests are created automatically. The tests are then executed and the output is returned back to the user.

Watir: It is toolkit used to automate browser-based tests during User acceptance testing. Ruby is the programming language used for inter process communication between ruby and Internet Explorer.

Example Guidelines for UAT

- Most of the times in regular software

developing scenarios, UAT is carried out in the QA environment. If there is no staging or UAT environment UAT is classified into Beta and Alpha testing but it is not so important when software is developed for a service based industry UAT makes more sense when the customer is involved to a greater

extent

Conclusion:

• In Software Engineering, Full form of UAT is User Acceptance Testing. UAT is one of the many flavors of testing that has emerged over last twenty-five years. With UAT, the client can be sure "What to expect" from the product rather than assuming.