We are LB\*, a CX design studio

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In this article, we will discuss

• Agile Testing Strategies.

**Agile Test Plan** 

• The Agile Testing Quadrant.

• Risk of Automation in Agile Process.

We create design-driven impact through innovative

• QA challenges with agile software development.

Life Cycle

Lighting Beetle

• Agile Test Plan.

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What is Agile Testing?

**AGILE TESTING** is a testing practice that

software development. Unlike the Waterfall

method, Agile Testing can begin at the start of

Testing methodology is not sequential (in the

sense it's executed only after coding phase)

but continuous.

follows the rules and principles of agile

the project with continuous integration

between development and testing. Agile

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## A ESCOLA DE DESIGN Static Vs Dynamic

Agile Methodology Agile Testing **Retesting Vs Regression** Testing

Quality Assurance Vs **Quality Control** 

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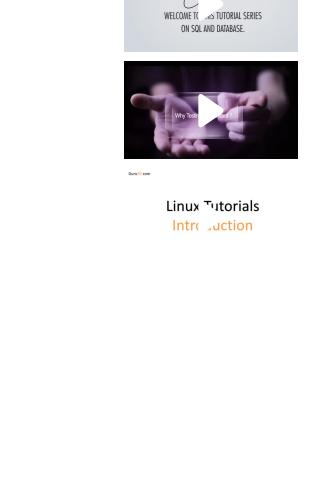
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Agile test plan includes types of testing done in that iteration like test data requirements,

infrastructure, test environments, and test results. Unlike the waterfall model, in an agile

model, a test plan is written and updated for every release. Typical test plans in agile



Production

release X

Operate and support

7. Resourcing

1. Testing Scope

8. Deliverables and Milestones

2. New functionalities which are being tested

3. Level or Types of testing based on the features complexity

that meets the changing needs of stakeholders

- **Agile Testing Strategies**
- Agile testing life cycle spans through four stages

4. Load and Performance Testing

5. Infrastructure Consideration

Mitigation or Risks Plan

- Iteration 0 Construction Iteration Deliver a working system

Initiate the project

(a) Iteration 0

#### The following steps are set to achieve in Iteration 0 a) Establishing a business case for the project

on.

and security testing.

d) Outline one or more candidate architectures e) Identifying the risk

The second phase of agile testing methodology is Construction Iterations, the majority of

implements a hybrid of practices from XP, Scrum, Agile modeling, and agile data and so

c) Outline the key requirements and use cases that will drive the design trade-offs

Start work on release X+1

**Agile Testing Strategy** 

During the first stage or iteration 0, you perform initial setup tasks. It includes identifying

people for testing, installing testing tools, scheduling resources (usability testing lab), etc.

Release (End

Deploy release X into

Game)

production

(b) Construction Iterations

f) Cost estimation and prepare a preliminary project

the testing occurs during this phase. This phase is observed as a set of iterations to build an increment of the solution. In order to do that, within each iteration, the team

b) Establish the boundary conditions and the project scope

In construction iteration, the agile team follows the prioritized requirement practice: With each iteration, they take the most essential requirements remaining from the work item stack and implement them.

Construction iteration is classified into two, confirmatory testing and investigative testing.

Confirmatory testing concentrates on verifying that the system fulfills the intent of the

investigative testing detects the problem that confirmatory team has skipped or ignored. In

Investigative testing, tester determines the potential problems in the form of defect stories.

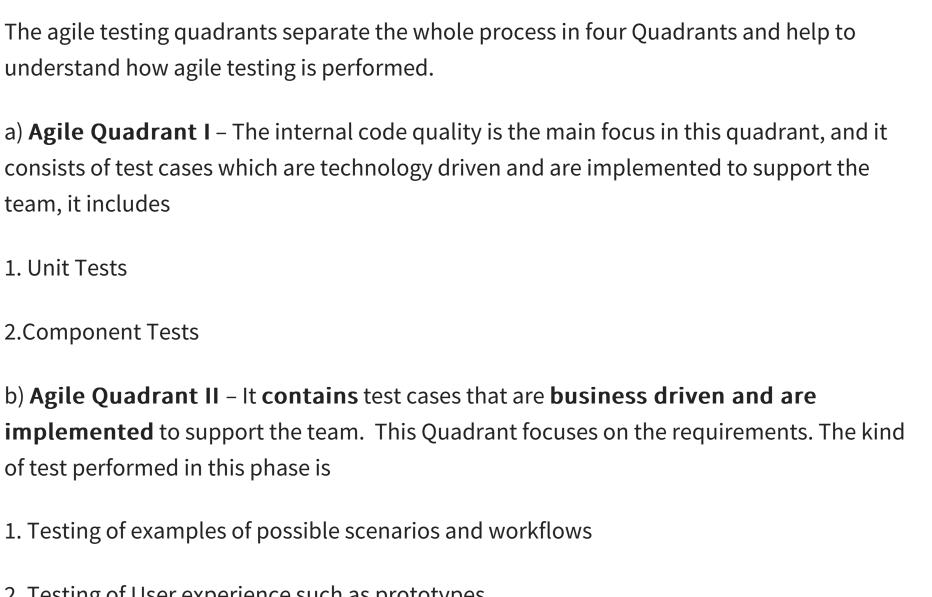
Investigative testing deals with common issues like integration testing, load/stress testing,

stakeholders as described to the team to date, and is performed by the team. While the

Again for, confirmatory testing there are two aspects **developer testing** and **agile** acceptance testing. Both of them are automated to enable continuous regression testing throughout the lifecycle. Confirmatory testing is the agile equivalent of testing to the specification. Agile acceptance testing is a combination of traditional functional testing and traditional acceptance testing as the development team, and stakeholders are doing it together. While

finalization of system and user documentation. The final agile methodology testing stage includes full system testing and acceptance testing. In accordance to finish your final testing stage without any obstacles, you should

**Exploratory Testing Functional Test** Scenarios Examples **Usability Testing** Story Tests UAT (User Acceptance Testing) Prototypes Simulations Alpha/ Beta



2. Exploratory Testing 3. Pair testing with customers

d) Agile Quadrant IV - This quadrant concentrates on the non-functional

requirements such as performance, security, stability, etc. With the help of this quadrant, the application is made to deliver the non-functional qualities and expected value. 1. Non-functional tests such as stress and performance testing

2. Security testing with respect to **authentication** and hacking

kind of testing done in this quadrant is

friendly system. X D 6. Load testing

QA challenges with agile software development

biggest challenge for QA

positives

seamless

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cause failing of tests

address the business suits

puts more pressure on QA team

**Risk of Automation in Agile Process** • Automated UI provides a high level of confidence, but they are slow to execute, fragile to

• Many commercially available automation tools provide simple features like automating the capture and replay of manual test cases. Such tool encourages testing through the UI and leads to an inherently brittle and difficult to maintain tests. Also, storing test

• A test set up and tear down procedures are usually missed out during test automation,

• Productivity metrics such as a number of test cases created or executed per day can be

Members of the agile automation team must be effective consultants: approachable,

• Automation may propose and deliver testing solutions that require too much ongoing

Automated testing may lack the expertise to conceive and deliver effective solutions

cooperative, and resourceful, or this system will quickly fail

terribly misleading, and could lead to making a large investment in running useless tests

while Performing manual testing, a test set up and tear down procedures sounds

expected quality of the product, a mixture of testing types and levels is required

• If the automated test are initiated manually rather than through CI (Continuous

Integration) then there is a risk that they are not regularly running and therefore may

• Automated tests are not a replacement for an exploratory manual testing. To obtain the

Conclusion Agile methodology in software testing involves testing as early as possible in the software development lifecycle. It demands high customer involvement and testing code as soon as it becomes available. The code should be stable enough to take it to system testing.

Extensive regression testing can be done to make sure that the bugs are fixed and tested.

Mainly, Communication between the teams makes agile model testing success!!!

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Static Testing is a type of

software testing in which

software application is...

**SOFTWARE TESTING** 

developer testing is a mix of traditional unit testing and traditional service integration testing. Developer testing verifies both the application code and the database schema. (c) Release End Game Or Transition Phase The goal of "Release, End Game" is to deploy your system successfully into production. The activities include in this phase are training of end users, support people and operational people. Also, it includes marketing of the product release, back-up & restoration, have to test the product more rigorously while it is in construction iterations. During the end game, testers will be working on its defect stories. (d) Production After the release stage, the product will move to the production stage. The Agile Testing Quadrants **Business Facing** Supporting the team Critique Product Performance & **Unit Tests Load Testing Component Tests** Security Testing **Technology Facing** 

2. Testing of User experience such as prototypes 3. Pair testing

c) Agile Quadrant III - This quadrant provides feedback to quadrants one and two. The

test cases can be used as the basis to perform automation testing. In this quadrant, many

rounds of iteration reviews are carried out which builds confidence in the product. The

4. Collaborative testing

5. User acceptance testing

1. Usability Testing

3. Infrastructure testing 4. Data migration testing 5. Scalability testing Secure your catch with a modern and user **OPEN** 

a) Chances of error are more in agile, as documentation is given less priority, eventually

b) New features are introduced quickly, which reduces the available time for test teams to

identify whether the latest features are according to the requirement and does it truly

g) Change in their role from being a gate-keeper of quality to being a partner in Quality

h) Requirement changes and updates are inherent in an agile method, becoming the

c) Testers are often required to play a semi-developer roled d) Test execution cycles are highly compressed e) Very less time to prepare test plan

f) For regression testing, they will have minimal timing

maintain and expensive to build. Automation may not significantly improve test productivity unless the testers know how to test • Unreliable tests are a major concern in automated testing. Fixing failing tests and resolving issues related to brittle tests should be a top priority in order to avoid false

cases outside the version control system creates unnecessary complexity • In order to save time, much times the automation test plan is poorly planned or unplanned which results in the test fail

maintenance relative to the value provided

• Automated testing may be so successful that they run out of important problems to solve, and thus turn to unimportant problems.

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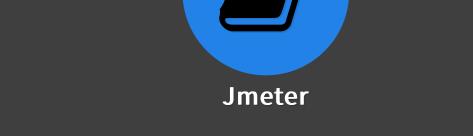


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