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Submitted To:

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Subject:

Software Quality Engineering

Objective:

Assignment 1

Agile (Scrum) Testing

**Agile (Scrum)Testing**

Scrum testing is a type of software testing that is performed to check the ability of the software or application to execute complicated processes. This testing also checks various other parameters of the software like quality, usability and performance. Execution of complex process needs complex software.

*Advantages of Agile*

* Scrum can help teams complete project deliverables quickly and efficiently
* Scrum ensures effective use of time and money
* Large projects are divided into easily manageable sprints
* Developments are coded and tested during the sprint review
* Works well for fast-moving development projects
* The team gets clear visibility through scrum meetings
* Scrum, being agile, adopts feedback from customers and stakeholders
* Short sprints enable changes based on feedback a lot more easily
* The individual effort of each team member is visible during daily scrum meetings

*Disadvantages of Agile*

* Scrum often leads to scope creep, due to the lack of a definite end-date
* The chances of project failure are high if individuals aren't very committed or cooperative
* Adopting the Scrum framework in large teams is challenging
* The framework can be successful only with experienced team members
* Daily meetings sometimes frustrate team members
* If any team member leaves in the middle of a project, it can have a huge negative impact on the project
* Quality is hard to implement until the team goes through an aggressive testing process

Product Backlog

Agile project management, product backlog refers to a prioritized list of functionality which a product should contain. It is sometimes referred to as a to-do list, and is considered an 'artifact' within the scrum software development framework

DoD-Checklist

The checklist that contains all the list of work to be checked before completion and it called as DoD in short. Whenever we do any work we need to have a checklist to make sure everything is completed.

Test Information

In Agile, testing is integrated directly into the development process so that bugs are discovered as early and as often as possible. As a result, testers can identify problems at every point in the development process, moving the product quickly towards release.

Prepare Test Plan

An Agile Test Plan is a very important document because it gives your Quality Assurance (QA) team the ability to have all high-level scenarios, business requirements and estimates in one place. Your QA Analyst or Agile Tester should fill out an Agile Test Plan during each sprint planning event. And just like the actual live document, it is always changing and evolving, depending on sprint requirements and overall timelines.

Test plan Includes

* User stories
* QA environment
* Testing scope
* Testing process
* Risks and dependencies
* Estimates and Exit criteria

Design Test Case

A test case might be created as an automated script to verify the functionality per the original acceptance criteria. After doing manual exploratory testing, QA testers might suggest other functionality be added to the application as well as updated test cases be incorporated in the automated test suite.

Conduct Testing

Agile Testing

Collect Test Results

This includes Collection and summarization Of Results. As We Know in Agile, processes are Repeated Multiple times and testing Reports are Generated and Updates many time, so final result is collected and Updates in records.

Report Preparation

Organizing and evaluating the information. Once you have researched a situation or topic and obtained all the information you need, you can then begin to organize your findings with a view to writing the report.

**Major companies using agile**

* CISCO
* PHILIPS
* IMB