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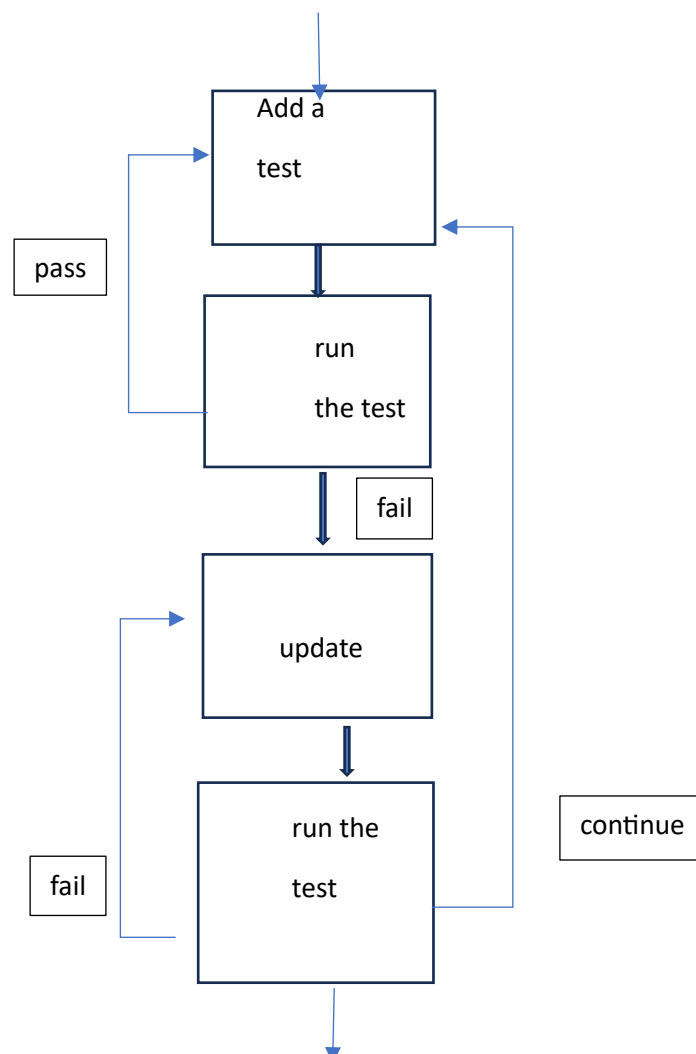
**Part 1: Answer Questions about AGILE Methodology (50%)**

1. What is test driven development? (10%)
2. List out the pros and cons of exploratory testing (used in Agile) and scripted testing? (10%)
3. How do you deal when requirements change frequently? (10%)
4. What qualities should a good agile tester have? (10%)
5. Why Continuous testing? (10%)

Ques1:

Test Driven Development: It is an evolutionary approach to combine the test first development(TFD), where we first write a test case before write a production code. It is the way where we think through design before write the code. Moreover, it is specification not validation. The goal of TDD is to write a clean code.

In Test first development(TFD)



stop

- a) first we add a test.
- b) Then we run the test
- c) Then update the test if any error
- d) And then again run the test.

## Question2

Exploratory testing : It is an hands on approach which means tester more focus on minimum planning and maximum test execution. Exploratory testing is useful in agile because of tight deadlines and focus on speedy results. And when the tester understand the requirements then they perform testing by using their skills and when the tester more familiar with the application then they can perform more test case and able to find more bugs.

Pros of exploratory testing:

- 1) A wide range of defects can be detected.
- 2) It is also possible to provide quick feedback about the project to development team.
- 3) Exploratory testing performed by many developer, testers, analysts, designers and each person have different point of view for specific test case.

Cons of exploratory testing:

- 1) Difficult to document Exploratory testing can be difficult to document.
- 2) There's a high risk of missing critical bugs with exploratory testing.
- 3) It's easy to lose focus on testing the planned feature with exploratory testing.

Scripted testing: Scripted testing is a software testing method that involves testers following a detailed step-by-step process to test a specific functionality.

cons:

- This technique doesn't find many bugs.
- It focuses on limited areas .

pros:

- 1) Scripted testing is a good choice for testing apps that are high risk, such as financial apps.
- 2) Scripted testing is good for simple or repetitive tasks that can be automated.

Question 3:

- Communicate the change: we can communicate with the project manager, developers, and business analysts to clarify the change's reasons, objectives, and priorities. And we can also assess how the change will impact the test plan, test cases, and more.
- Adapt the test plan: we can adjust the test plan to reflect changes as development progresses.
- Prioritize requirements: You can prioritize the most important requirements to ensure the project stays on track

Question 4

- 1) Agile tester should be able to understand the requirements quickly.
- 2) Agile tester should know Agile concepts and principals.
- 3) Communication must for agile tester as it requires a lot of communication with testers and business analyst.
- 4) Agile testers should be able to prioritize the work based on their requirements.

Question 5

Continuous testing is very important because it helps identify and fix errors in the development process.

- Continuous testing reduce risk.
- Improve test coverage because it starts early access all errors.
- Increase product quality because faster test cycle can lead to higher product quality because more testing take place.
- Continuous testing helps team experience immediate success.

## **Part 2: White a simple use case about submits an Admissions Inquiry Form (50%)**

**Feature:** Request Information for SFBU

As a new user to SFBU,

In order to \_\_\_\_\_,

I want to \_\_\_\_\_

**Scenario:** \_\_\_\_\_

**Given** Open the Chrome browser and launch the SFBU application

**When** \_\_\_\_\_

**And** \_\_\_\_\_

**And** \_\_\_\_\_

Solution:

Feature: Request Information for SFBU

As a new user to SFBU,

In order to ensure to enroll a program which fits for me,

I want to submit a Admissions Inquiry Form

Scenario: Verification of submit an Admissions Inquiry Form

Given Open the Chrome and launch the SFBU application

When Click REQUEST INFORMATION

And Open Admissions Inquiry Form

And Enter First Name, last Name

And Phone number

And then sign up for SMS Alerts that will shows option that is opt in and opt out select anyone from them and then we will get notifications

Then enter Email address

Then select anyone from Domestic or international students

Then tell more about you by entering

Program level I am interested ,

I will be starting in and

I am interested in the following programs .

Then successfully submitted admissions inquire form (or failed returns an error message) and then enter information again.

