

1) What is regression? What is retesting?

Answer:

- ✚ Regression Testing is carried out in software testing to check if are introduced new defects in previously existing functionality. In other words, this type of testing is carried out to ensure that the existing functionality is working fine and there are no side effects of any new change or enhancements done in the application.
- ✚ Retesting is a type of testing that ensure if a particular defect has been fixed and if the functionality is working as expected.

2) What is the relationship between the following: error, bug, defect, fault, failure.

Answer:

- ✚ Defect is an error found after the application goes into production. Defect is the difference between expected and actual result in the context of testing. It is the deviation of the customer requirement.
- ✚ An error is a mistake, misconception, or misunderstanding on the part of a software developer.
- ✚ A bug is the result of a coding error. An Error found in the development environment before the product is shipped to the customer. An error in software or hardware that causes a program to malfunction.
- ✚ When a defect reaches the end customer it is called a Failure.
- ✚ A fault is an incorrect step, process or data definition in a computer program which causes the program to perform in an unintended or unanticipated manner. A fault is introduced into the software as the result of an error.

Defect, error, bug, fault and failure are a type of error which warns about mistakes which are in the application. In other words : A mistake in coding is called Error, error found by tester is called Defect, defect accepted by development team then it is called Bug, build does not meet the requirements then it Is Failure.

3) Name the difference between agile & v-model. (Please specify some roles and cycles for these)

Answer:

- ✚ Agile is iterative and incremental (this means that the testers test each increment of coding as soon as it is finished) and V-model it's rigid and the least flexible (if any changes happen mid way, not only the requirements documents but also the test documentation needs to be updated).

The V-Model is a Software life cycle model

V-model is a software development model that is based on the relationships between each phase of the development life cycle as described in a typical Waterfall model of software development and its associated phase of testing.

It explains how you go from high level concept to released product.

- At the top of the left V line, are the High level concepts.
- At the bottom of the V is the coding phase.
- At the top right V line is the released product.

Agile Testing

Agile testing is a software testing practice that follows the rules of the agile manifesto, treating software development as the customer of testing.

The role of a tester in an Agile project requires a wider variety of skills:

- Domain knowledge about the system under test
- The ability to understanding the technology be used
- A level of technical competency to be able to interact effective with the development team.

- 4) Please state what is black box testing? How about white box testing? You can also give an example.**

Answer:

✚ Black box testing: Black Box testing is testing the system without knowing implementation, design, or structure. It is a method of testing.

Example: A tester, without knowledge of the internal structures of a website, tests the web pages by using a browser; providing inputs (clicks, keystrokes) and verifying the outputs against the expected outcome.

✚ White box testing: White Box testing is another method, its just the opposite. White Box is testing when you do know everything about the system.

Example: A tester, usually a developer as well, studies the implementation code of a certain field on a webpage, determines all legal (valid and invalid) and illegal inputs and verifies the outputs against the expected outcomes, which is also determined by studying the implementation code.

- 5) In the images folder you have a login form. Create Test Cases for the given form. Please state the testing types (functional, non-functional, black box, white box, design technique) for each TC created.**

Test scenario ID	Login-form-1		Test Case ID	Login-Sign-in	
Test Case Description	Login – Positive test case		Test Priority	High	
Pre-requisite	A valid user account		Post-requisite	NA	
Testing Type: Functional, White Box, Decision Table Testing					
Test Execution Steps:					
S.No	Action	Inputs	Expected Output	Actual Output	Test Result
1	Launch Application	https://diprella.com.	Diprella home	Diprella home	Passed
2	Click on Sign-in button to login on the current application	https://diprella.com/sign-in	Diprella home	Diprella home	Passed
3	Enter correct Email& Password and click on login button (Sign in)	Email id: test@diprella.com Password: *****	Sign in - success	Sign in - success	Passed

Test scenario ID	Login-form-2			Test Case ID	Login-Sign-up
Test Case Description	Login – Positive test case			Test Priority	High
Pre-requisite	A valid email			Post-requisite	NA
Testing Type: Functional, White Box, Decision Table Testing Test Execution Steps:					
S.No	Action	Inputs	Expected Output	Actual Output	Test Result
1	Launch Application	https://diprella.com/sign-up	Diprella home	Diprella home	Passed
2	Enter a correct name	https://diprella.com/sign-up	Diprella home	Diprella home	Passed
3	Enter correct a valid Email& Password and click on login button (Sign up)	Email id: test@diprella.com Password: *****	Sign up - success	Sign up - success	Passed

6) Consider that you have found a defect in the form for the previous exercise. Create a bug report for it.

Answer:

Bug Number/id: #123

Bug Title: Sign-up button – it's not working

Reporter: Alexandra G

Summary: The button Sign-up is not working when I click on it after I introduced my personal data

Priority: Sever

Severity: Major

Steps to Reproduce: Introduce Name, Introduce a valid Email, Introduce a password which contains 8 letter, Click on Sign-up button

Expected Result: The Sign-up should working after I introduce data

Actual Result: The Sign-up is not working. The page is not charging.

Platform/Environment: PC

Operating system: Windows 10, version 1809

Browser: Chrome 53

Screenshot: image.png

Product: Login form - Diprella