Module 2

1. What is Exploratory Testing?

Ans.:- **Exploratory Testing** is a type of software testing where Test cases are not created in advance but testers check system on the fly. They may note down ideas about what to test before test execution.

1. What is traceability matrix?

Ans.:- To protect against changes you should be able to trace back from every system component to the original requirement that caused its presence.

1. What is Boundary value testing?

Ans.:- Boundary value analysis is a methodology for designing test cases that concentrates software testing effort on cases near the limits of valid ranges.

1. What is Equivalence partitioning testing?

Ans.:- The numbers fall into a partition where each would have the same, or equivalent, result i.e. an Equivalence Partition (EP) or Equivalence Class.

1. What is Integration testing?

Ans.:- Integration Testing is a level of the software testing process where individual units are combined and tested as a group.

1. What determines the level of risk?

Ans.:- A factor that could result in future negative consequences.

1. What is Alpha testing?

Ans.:- It is always performed by the developers at the software development site. Sometimes it is also performed by Independent Testing Team. It is always performed in Virtual Environment.

1. What is beta testing?

Ans.:- It is always performed by the customers at their own site. It is not performed by Independent Testing Team. It is performed in Real Time Environment.

1. What is component testing?

Ans.:- The testing of individual software components.

1. What is functional system testing?

Ans.:- Testing based on an analysis of the specification of the functionality of a component or system.

1. What is Non-Functional Testing?

Ans.:- Testing the attributes of a component or system that do not relate to functionality.

1. What is GUI Testing?

Ans.:- Graphical User Interface (GUI) testing is the process of testing the system’s GUI of the System under Test. GUI testing involves checking the screens with the controls like menus, buttons, icons, and all types of bars – tool bar, menu bar, dialog boxes and windows etc.

1. What is Adhoc testing?

Ans.:- Adhoc testing is an informal testing type with an aim to break the system. It does not follow any test design techniques to create test cases. Main aim of this testing is to find defects by random checking.

1. What is load testing?

Ans.:- load testing is carried out to check systems performance at different loads i.e. number of users accessing the system.

1. What is stress Testing?

Ans.:- Stress Testing is done to make sure that the system would not crash under crunch situations. Stress testing is also known as endurance testing.

1. What is white box testing and list the types of white box testing?

Ans.:- Testing based on an analysis of the internal structure of the component or system.

1. Statement Coverage
2. Decision Coverage
3. Condition Coverage
4. What is black box testing? What are the different black box testing techniques?

Ans.:- Testing, either functional or non-functional, without reference to the internal structure of the component or system.

1. Equivalance Partitioning
2. Boundary Value Analysis
3. Decision Tables
4. State Transicion testing
5. Use Case Testing
6. Mention what are the categories of defects.

Ans.:-

Arithmetic Defects.

Logical Defects.

Syntax Defects.

1. Mention what bigbang testing is?

Ans.:- In Big Bang integration testing all components or modules is integrated simultaneously, after which everything is tested as a whole.

1. What is the purpose of exit criteria?

Ans.:- Purpose of exit criteria is to define when we STOP testing either at the:

End of all testing – i.e. product Go Live

End of phase of testing (e.g. hand over from System Test to UAT).

1. When should "Regression Testing" be performed?

Ans.:- Testing of a previously tested program following modification to ensure that defects have not been introduced or uncovered in unchanged areas of the software, as a result of the changes made. It is performed when the software or its environment is changed.

1. Difference between QA v/s QC v/s Tester.

Ans.:-  QA sets the standards for how it should be done, QC ensures those standards are followed, and Testing checks that everything is up to the quality standards.

1. Difference between Smoke and Sanity?

Ans.:- Smoke test is done to make sure that the critical functionalities of the program are working fine, whereas sanity testing is done to check that newly added functionalities, bugs, etc., have been fixed. The software build may be either stable or unstable during smoke testing.

1. Difference between verification and Validation.

Ans.:- Validation is the process of checking whether the specification captures the customer's requirements, while verification is the process of checking that the software meets specifications. Verification includes all the activities associated with the producing high quality software.

1. Explain types of Performance testing.

Ans.:-

Load Testing :- Load testing examines how the system behaves during normal and high loads and determines if a system, piece of software, or computing device can handle high loads given a high demand of end-users.

Stress Testing / Endurance testing :- Stress Testing is done to make sure that the system would not crash under crunch situations. Stress testing is also known as endurance testing.

Spike testing :- Spike testing is a type of performance testing in which an application receives a sudden and extreme increase or decrease in load. The goal of spike testing is to determine the behavior of a software application when it receives extreme variations in traffic.

Volume testing :- It belongs to a group of non-functional testing that is performed as part of performance-testing where a software product or application with high volume of data is tested.

Scalability testing :- A scalability test is a type of load testing that measures the application's ability to scale up or down as a reaction to an increase in the number of users.

1. What is Error, Defect, Bug and failure?

Ans.:-

Error :- A mistake in coding is called error.

Defect :- error found by tester is called defect.

Bug :- defect accepted by development team then it is called bug.

Failure :- build does not meet the requirements then it is failure.

1. Difference between Priority and Severity.

Ans.:- Severity is basically a parameter that denotes the total impact of a given defect on any software. Priority is basically a parameter that decides the order in which we should fix the defects. Severity relates to the standards of quality. Priority relates to the scheduling of defects to resolve them in software.

1. What is Bug Life Cycle?

Ans.:- The duration or time span between the first time defects is found and the time that it is closed successfully, rejected, postponed or deferred is called as ‘Defect Life Cycle’.

1. Explain the difference between Functional testing and NonFunctional testing.

Ans.:- Functional testing ensures that the functions and features of the application work properly. Non-functional testing examines other aspects of how well the application works. Functional testing tests the functionality of an app. Non-functional testing tests the performance of these functions.

1. What is the difference between the STLC (Software Testing Life Cycle) and SDLC (Software Development Life Cycle)?

Ans.:- SDLC refers to a sequence of activities during the software development process, whereas STLC refers to a sequence of activities during software testing.

1. What is the difference between test scenarios, test cases, and test script?

Ans.:- A test scenario is any functionality that a software testing company can examine. It is also called a Test Condition or Test Possibility. A test case is a document that lists the steps a QA engineer needs to execute. A test script is a short program written in a programming language.

1. Explain what Test Plan is? What is the information that should be covered.

Ans.:- A document describing the scope, approach, resources and schedule of intended test activities.

Information to be covered:-

1. Test Policy
2. Master Test Plan/Test Strategy
3. Functional Test Plan
4. System Integ Test Plan
5. UAT Test Plan
6. What is priority?

Ans.:- Priority is defined as the order in which the defects should be resolved. The priority status is usually set by the testing team while raising the defect against the dev team mentioning the timeframe to fix the defect. The Priority status is set based on end users requirement.

1. What is severity?

Ans.:- It is the extent to which the defect can affect the software. In other words it defines the impact that a given defect has on the system.

1. Bug categories are…

Ans.:- bugs can be classified as urgent, high-, medium-, and low-priority.

1. Advantage of Bugzila.

Ans.:-

1. Open source, free bug tracking tool.
2. Automatic Duplicate Bug Detection.
3. Search option with advanced features.
4. File/Modify Bugs By Email.
5. Move Bugs Between Installs.
6. Multiple Authentication Methods (LDAP, Apache server).
7. What are the different Methodologies in Agile Development Model?

Ans.:- There are 5 main Agile methodologies: **Scrum, Kanban, Extreme Programming (XP), Lean Development e Crystal**.

1. Explain the difference between Authorization and Authentication in Web testing.What are the common problems faced in Web testing?

Ans.:- Authentication and authorization are two vital information security processes that administrators use to protect systems and information. Authentication verifies the identity of a user or service, and authorization determines their access rights.

1. Integration. Integration testing exposes problems with interfaces among different program components before deployment.
2. Interoperability.
3. Security.
4. Performance.
5. Quality Testing.
6. Write a scenario of only Whatsapp chat messages.

Ans.:-

1. Verify that the user can set a chat wallpaper.
2. Verify that the user sets privacy settings like turning on/off last seen, online status, read receipts, etc.
3. erify that the user can update notification settings like – notification sound, on/off, and show preview for both group and individual chats.
4. Verify that the user can take the complete chat backup of his chats.
5. Verify that the user can update the phone number that is used by the WhatsApp application.
6. Verify that the user can disable/delete his Whatsapp account.
7. Write a Scenario of Pen.

Ans.:- Positive:-

1. Verify the type of pen, whether it is a ballpoint pen, ink pen, or gel pen.
2. Verify that the user is able to write clearly over different types of papers.
3. Verify if the pen is with a cap or without a cap.
4. Verify the color of the ink on the pen.
5. Check the odor of the pen’s ink on writing over a surface.

Negative:-

1. Verify the functioning of a pen at extreme temperatures – much higher and lower than room temperature.
2. Verify the functioning of a pen at extreme altitude.
3. Check the functioning of a pen at zero gravity.
4. Verify the functioning of the pen by applying extreme pressure.
5. Verify the effect of oil and other liquids on the text written with a pen.
6. Write a Scenario of Pen Stand.

Ans.:- Positive:-

1. Verify that pen stand has proper balance.
2. Verify that pen stand has proper base.
3. Verify that multiple pens has put in this pen stand.
4. Verify that pen stand able to stand in every tempecture.
5. Verify that pen stand is put every place.

Negative:-

1. Verify that wood is used is proper.
2. Verify that meterial is proper which is used in this stand.
3. Verify that effect of oil and other liquids on this pen stand.
4. Write a Scenario of Door.

Ans.:-

1. Verify if the door is single door or bi-folded door.
2. Check if the door opens inwards or outwards.
3. Verify if the door is single door or bi-folded door.
4. Check if the door opens inwards or outwards.
5. Verify that the dimension of the doors are as per the specifications.
6. Verify that the material used in the door body and its parts is as per the specifications.
7. Verify that color of the door is as specified.
8. Verify if the door is sliding door or rotating door.
9. Check the position, quality and strength of hinges.
10. Check the type of locks in the door.
11. Write a Scenario of ATM.

Ans.:-

1. Verify the ‘ATM Card Insertion Slot’ is as per the specification

2. Verify the ATM machine accepts card and PIN details

3. Verify the error message by inserting a card incorrectlyVerify the error message by inserting an invalid card (Expired Card)

4. Verify the error message by entering an incorrect PIN

5. Verify that the user is asked to enter the PIN after inserting a valid ATM Card

6. Verify that PIN is encrypted

7. Verify that there is an action like blocking of card occurs when the total no. of incorrect PIN attempts get surpassed

8. Verify the user is allowed to do only one cash withdrawal transaction per PIN request

9. Verify the machine logs out of the user session immediately after successful withdrawal

10. Verify the message when there is no money in the ATM

44. When to used Usablity Testing?

Ans.:- usability testing can and should be conducted on the current iteration of a product before beginning any new design work, after you've begun the strategy work around a brand new site or app.

1. What is the procedure for GUI Testing?

Ans.:-

1. Manual Testing. This approach involves human tester, where each screen is manually checked to validate each functionality by creating and executing test cases
2. Record and Replay Testing. GUI record and replay tools are used to test applications for their user interface.
3. Model-based testing
4. Write a scenario of Microwave Owen.

Ans.:-

1. Verify that the dimensions of the oven are as per the specification provided.
2. Verify that the oven’s material is optimal for its use as an oven and as per the specification.
3. Verify that the oven heats the food at the desired temperature properly.
4. Verify that oven heats food at the desired temperature within a specified time duration.
5. Verify the ovens functioning with maximum attainable temperature.
6. Verify the ovens functioning with minimum attainable temperature.
7. Verify that the oven’s plate rotation is speed is optimal and not too high to spill the food kept over it.
8. Verify that the oven’s door gets closed properly.
9. Verify that the oven’s door opens smoothly.
10. Verify the battery requirement of the microwave oven and check that it function’s smoothly at that power.
11. Write a scenario of Coffee vending Machine.

Ans.:-

1. UI scenario – Verify that the dimension of the coffee machine is as per the specification
2. Verify that outer body, as well as inner part’s material, is as per the specification
3. Verify that the machine’s body color as well brand is correctly visible and as per specification
4. Verify the input mechanism for coffee ingredients-milk, water, coffee beans/powder, etc
5. Verify that the quantity of hot water, milk, coffee powder per serving is correct
6. Verify the power/voltage requirements of the machine
7. Verify the effect of suddenly switching off the machine or cutting the power. The machine should stop in that situation and in power resumption, the remaining coffee should not get come out of the nozzle.
8. Verify that coffee should not leak when not in operation
9. Verify the amount of coffee served in single-serving is as per specification
10. Verify that the digital display displays correct information
11. Check if the machine can be switched on and off using the power buttons
12. Write a scenario of chair.

Ans.:-

1. Verify that the chair is stable enough to take an average human load
2. Check the material used in making the chair-wood, plastic etc
3. Check if the chair’s leg are level to the floor
4. Check the usability of the chair as an office chair, normal household chair
5. Check if there is back support in the chair
6. Check if there is support for hands in the chair
7. Verify the paint’s type and color
8. Verify if the chair’s material is brittle or not
9. Check if cushion is provided with chair or not
10. Check the condition when washed with water or effect of water on chair
11. Verify that the dimension of chair is as per the specifications
12. Verify that the weight of the chair is as per the specifications
13. Check the height of the chair’s seat from floor
14. To Create Scenario (Positive & Negative) facebook Chat on Mobile.

Ans.:- Positive:-

1. Check the received messages counts should be displayed on the ‘Facebook Message’ icon
2. Check the user gets all received messages in his inbox.
3. Check that only ‘message contacts’ will display on the left-hand side of the message box
4. Check the profile picture display on the left-hand side of the inbox is correct for each user
5. Check ‘Active’ users display with a green dot in the message box

Negative:-

1. Check unread messages are highlighted so that the user can identify it
2. Check received messages counts should be displayed with Inbox on the ‘Messages’ page
3. Check messages will get displayed in the Inbox of ‘User1’ only when ‘sender’ is connected with user1 on Facebook
4. Check messages will get displayed in the ‘Other’ tab of ‘User1’ if ‘sender’ is not connected with user1 on Facebook
5. Check the user can search contacts in the message box
6. To Create Scenario (Positive & Negative) Gmail

Ans.:- Positive:-

1. Verify that gmail display properly.
2. Verify that all mails displayed here.
3. Verify that all gmail owner displayed.
4. Verify that gmail contains proper texts.
5. Verify that side menu is displayed properly.

Negative:-

1. Verify that gmail page is responsive.
2. Verify that side menu is responsive.
3. Verify that user is able to open and close side menu.
4. Verify that gmail fonts is proper.
5. Verify that CC and BCC is displayed in all mails.

60. To Create Scenario (Positive & Negative) Online shopping to buy product (flipkart).

Ans.:- Positive:-

1. User navigation through all the pages of the application
2. None of the links in the applications should be broken.
3. Company logo, products, prices, and their description should be visible.
4. Products should be listed category-wise on the application.
5. Products should be displayed which match the search criteria.

Negative:-

1. Verify product price is correct along with shipping charges, VAT. VAT and shipping charges should be correctly applied.
2. Confirm VAT varies based on the number of products in the cart.
3. Verify all the payment methods are correctly working such as net banking, credit/debit card, and PayPal using dummy numbers for testing.
4. Ensure payment is refunded to the customer when a product is cancelled based on payment id.
5. Make sure the emails and invoices sent to the customer after a product is purchased by the user.

61. Write a Scenario of Wrist Watch.

Ans.:-

1. Verify the type of watch – analog or digital.
2. In the case of an analog watch, check the correctness time displayed by the second, minute, and hour hand of the watch.
3. In the case of a digital watch, check the digital display for hours, minutes, and seconds is correctly displayed.
4. Verify the material of the watch and its strap.
5. Check if the shape of the dial is as per specification.
6. Verify the dimension of the watch is as per the specification.
7. Verify the weight of the watch.
8. Check if the watch is waterproof or not.
9. Verify that the numbers in the dial are clearly visible or not.
10. Check if the watch is having a date and day display or not.

62. Write a Scenario of Lift(Elevator).

Ans.:-

1. Verify the dimensions of the lift
2. Verify the type of door of the lift is as per the specification
3. Verify the type of metal used in the lift interior and exterior
4. Verify the capacity of the lift in terms of the total weight
5. Verify the buttons in the lift to close and open the door and numbers as per the number of floors
6. Verify that lift moves to the particular floor as the button of the floor is clicked
7. Verify that lift stops when up/down buttons at particular floor are pressed
8. Verify if there is an emergency button to contact officials in case of any mishap
9. Verify the performance of the floor – the time is taken to go to a floor
10. Verify that in case of power failure, lift doesn’t free-fall and get halted in the particular floor

63. Write a Scenario of whatsapp Group (generate group).

Ans.:-

1. Check how many users can log into the group chat.
2. Check how many users are active.
3. Check how many users can be limited to the channel or groups.
4. Check the limit of the users that can be active on all the channels or groups.
5. Check all the members can view the message.
6. Check if all the messages are accessible by the moderator or admin.
7. Check if a normal user can send a text message to a specific user.
8. Check if the users are restricted from creating their groups.
9. Check if the channel can connect with the available integration apps.
10. Check if the user can open multiple channel windows.
11. Check if the user gets the avatar from the gravatar.

64. Write a Scenario of instagram ( video call with chat ).

Ans.:-

1. Verify the Camera should be available on the Mobile phone.
2. Verify the Camera driver should be available and installed.
3. Verify the Camera Icon should be available on the Mobile phone menu.
4. Verify the availability of Led Flash in the Camera.
5. Verify the availability of a Single Led Flash in the Camera.
6. Verify the availability of a Dual Led Flash in the Camera.
7. Verify the availability of Dual Cameras on Mobile phones.
8. Verify the availability of a Torchlight Camera on a Mobile phone.
9. Verify the availability Panorama feature in the Camera.

65. Write a Scenario of Whatsapp payment.

Ans.:-

1. Check if all the labels and boxes are visible.
2. Verify the payment gateway company logo or name.
3. Check if the credit card number is masked or not.
4. Verify that all the payment options are visible.
5. Check if the color scheme matches the specifications.
6. Check if the user gets a confirmation message or mail if the payment is successful.
7. Check if a pop-up appears if the session has expired.
8. Verify that the user gets information about unsuccessful payment.
9. Check if double payment is not occurring in any case.
10. Check what happens after the session gets expired. Does the payment still occur?
11. Verify if the respective payment option triggers the right payment gateway.