

Module–2(Manual Testing)

1) What is Exploratory Testing ?

->. Exploratory Testing is a software testing approach where testers actively explore the application, identifying issues and assessing user experience without relying on predefined test cases.

2) What is traceability matrix ?

->Test conditions should be able to be linked back to their sources in the test basis, this is known as traceability matrix .

3)What is Boundary value testing?

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

4)What is Equivalence partitioning testing?

->Aim is to treat groups of inputs as equivalent and to select one representative input to test them all EP can be used for all Levels of Testing,

5) What is Integration testing?

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

6) What determines the level of risk?

-> Risk – A factor that could result in future negative consequences; usually expressed as impact and likelihood

-> Risks are of two types:

1) Project Risks

2) Product Risk

7)What is Alpha testing?

->This is an internal test performed by the development team or designated testers. It focuses on identifying major functional issues and verifying that the software meets the initial requirements.

->Alpha Testing is done within the organization.

8)What is beta testing?

->This involves a group of external users, often the target audience, testing the software in their own environment. The goal is to identify usability issues, gather feedback, and ensure the software performs as expected in real-world scenarios.

->Beta Testing is done in the user's environment.

9)What is component testing?

->A minimal software item that can be tested in isolation. A unit is the smallest testable part of software it is called component testing. component testing called as a unit testing and it's done by developer.

10)What is functional system testing?

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

->Specification – E.g. Requirements specification, Use Cases, Functional specification or maybe undocumented.

->Function – what the system does

11)What is Non-Functional Testing?

->Non-Functional Testing: Testing the attributes of a component or system that do not relate to functionality, e.g. reliability, efficiency, usability, interoperability, maintainability and portability.

12)What is GUI Testing?

->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.

13)What is Ad hoc testing?

-> Adhoc testing is an informal testing type with an aim to break the system. Main aim of this testing is to find defects by random checking. Adhoc testing can be achieved with the testing technique called Error Guessing.

14)What is Load testing?

->Load testing gives confidence in the system & its reliability and performance.

->Load Testing helps identify the bottlenecks in the system under heavy user

stress scenarios before they happen in a production environment.

15)What is stress Testing?

->stress testing in software testing is like pushing a system to its absolute limit. It's about finding out how it handles extreme loads or unexpected situations, and whether it can recover gracefully or crash when pushed too hard.

16)What is white box testing and list the types of white box testing?

->White Box Testing: Testing based on an analysis of the internal structure of the component or system. the testers require knowledge of how the software is implemented, how it works.it's also know as a glass box testing.

->There are white-box testing type is as the following:

technique:

- statement coverage
- Decision coverage
- Condition coverage

17)What is black box testing? What are the different black box testing techniques?

->Black-box testing: Testing, either functional or non-functional, without reference to the internal structure of the component or system.

->There are four specification-based or black-box

technique:

- Equivalence partitioning
- Boundary value analysis
- Decision tables
- State transition testing
- Use-case Testing
- Other Black Box Testing

18)Mention what are the categories of defects?

->Defects are commonly categorized into three severity levels: critical, major, and minor

19)Mention what big bang testing is?

-> In Big Bang integration testing all components or modules is integrated simultaneously, after which everything is tested as a whole. Big Bang testing has the advantage that everything is finished before integration testing starts.

20)What is the purpose of exit criteria?

-> Exit criteria is as the following:

Exit criteria :

- Successful Testing of Integrated Application.
- Executed Test Cases are documented
- All High prioritized bugs fixed and closed
- Technical documents to be submitted followed by release Notes.

21)When should Regression Testing be performed?

->smoke and sanity testing end after that performed Regression Testing.

22)What is 7 key principles? Explain in detail?

-> 7 key principles is as the following:

1.Testing Shows Presence of Defects

identify - There are some defects

not identify - There are no defects- currently it's error free

2.Exhaustive Testing is impossible

-> it's not possible to check every input condition

-> every combination of input are not check to possible

3. Early Testing

-> documentation testing

-> Parallel

4. Defect Clustering

-> defects are not evenly spread in a system

-> from one defect another defect should not affect

5. The Pesticide Paradox

-> Regularly Review and Revised Something to find some new defects

6. Testing is context dependent

-> Every Website needs to check differently

7. Absence of Error Fallacy

-> There is no Error

-> Requirement also not fulfilled

23) Difference between QA v/s QC v/s Tester

->

Quality Assurance	Quality Control	Testing
It is a subset of Software Test Life Cycle (STLC).	It is a subset of Quality Assurance.	Testing is the subset of Quality Control.
Preventive activities	It is a corrective process.	It is a preventive process.
Process oriented activities.	Product oriented activities.	Product oriented activities.
Focuses on processes and procedures rather than conducting actual testing on the system	Focuses on actual testing by executing Software with intend to identify bug/defect through implementation of procedures and process.	Focuses on actual testing.

24) Difference between Smoke and Sanity?

->) Difference between Smoke and Sanity is as the following:

Smoke Testing	Sanity Testing
Smoke Testing is performed to ascertain that the critical functionalities of the new program is working fine.	Sanity Testing is done to check the new functionality / bugs have been fixed
The objective of this testing is to verify "stability" of the system in order to with more rigorous testing	The objective of the testing is to verify the he "rationality" of the system in order proceed to proceed with more rigorous testing
This testing is performed by the developers or testers	Sanity testing is usually performed by testers
Smoke testing is usually documented or scripted	Sanity testing is usually not documented and is unscripted
Smoke testing is a subset of Regression	Sanity testing is a subset of Acceptance

testing	testing
Smoke testing is like General Health Check	Sanity Testing is like specialized health check up

25) Difference between verification and Validation

-> Difference between verification and validation is as the following:

verification	Validation
Verification ensures that the product is built correctly according to specified requirements.	validation checks if the built product meets user needs and expectations
. Verification is a static, internal process focused on documents and designs.	validation is a dynamic, external process involving actual product testing.
verification Purpose Preventing errors	validation purpose Detecting errors.

26) Explain types of Performance testing.

-> Types of Performance Testing

- Load testing
- Stress testing
- Endurance testing
- Spike testing
- Volume testing
- Scalability testing

-> Explanation is as the following:

1) Load testing:

-> Load testing gives confidence in the system & its reliability and performance.

-> Load Testing helps identify the bottlenecks in the system under heavy user stress scenarios before they happen in a production environment.

2) Stress testing:

-> stress testing in software testing is like pushing a system to its absolute limit. It's about finding out how it handles extreme loads or unexpected

situations, and whether it can recover gracefully or crash when pushed too hard.

3) Endurance testing:

->endurance testing, also known as soak testing. it is a type of performance test that evaluates how a system behaves under a sustained load for an extended period.

4) Spike testing:

->In software testing, spike testing is a performance testing technique that evaluates how a system behaves under a sudden, dramatic increase or decrease in load.

5)Volume testing:

->Volume testing, in software testing, is a type of performance testing that evaluates a system's ability to handle large volumes of data or transactions.

6)Scalability testing:

->Scalability testing in software testing evaluates a system's ability to handle increasing workloads or demands without compromising performance or stability

27)What is Error, Defect, Bug and failure?

-> Error is mistake in the code by developer.

->defect is a mistake that will be find by tester it's called Defect.

->If defect is accepted by developer team it's called Bug.

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

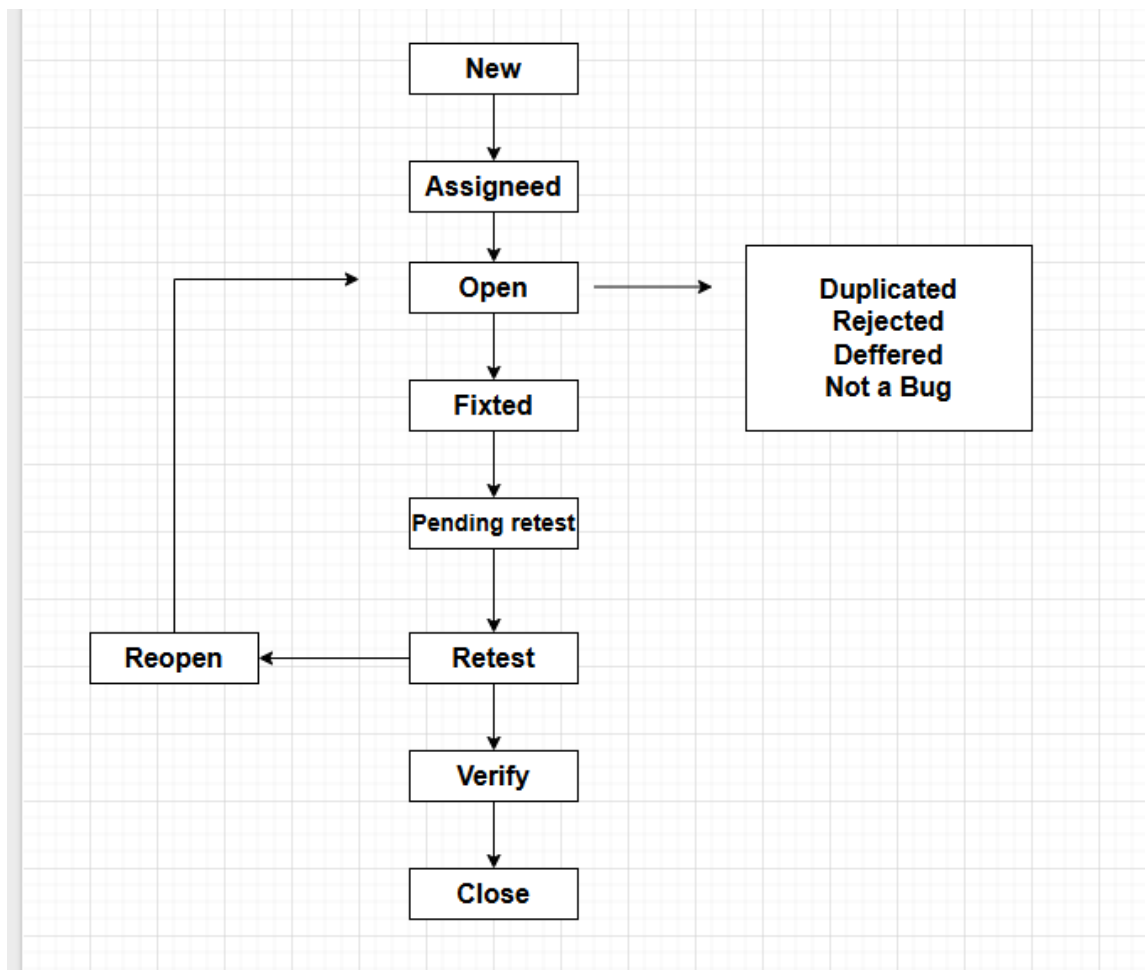
28)Difference between Priority and Severity

-> Difference between priority and Severity is as the following:

Priority	Severity
priority indicates the order in which bugs should be fixed	severity describes the impact of a bug on the software's functionality
priority determines how quickly it should be addressed.	Severity assesses the bug's overall impact
Assessed by Product managers, developers, or stakeholders	Assessed by Testing engineers or QA professionals

29)What is Bug Life Cycle?

->A computer bug is an error, flaw, mistake, failure, or fault in a computer program that prevents it from working correctly or produces an incorrect result. Bugs arise from mistakes and errors, made by people, in either a program's source code or its design.



30)Explain the difference between Functional testing and NonFunctional testing?

➔ Functional testing and Non Functional testing different is as the following is as the following.

Functional Testing	Non-Functional Testing
Functional testing is executed first	Non functional testing should be performed after functional testing
Manual testing or automation tools can be used for functional testing	Using tools will be effective for this testing
Easy to do manual testing	Tough to do manual testing
Business requirements are the inputs to functional testing	Performance parameters like speed , scalability are inputs to non-functional testing.
Functional testing describes what the product does	Nonfunctional testing describes how good the product works
Types of Functional testing are <ul style="list-style-type: none"> • Unit Testing • Smoke Testing • Sanity Testing • Integration Testing • White box testing • Black Box testing • User Acceptance testing • Regression Testing 	Types of Nonfunctional testing are <ul style="list-style-type: none"> • Performance Testing • Load Testing • Volume Testing • Stress Testing • Security Testing • Installation Testing • Penetration Testing • Compatibility Testing • Migration Testing

31) To create HLR & Testcase of

1) Instagram only first page:

-> **HLR :**

Functionality Id	Functionality Name	Description
101	Check website Link	Website Opens Properly.
102	Check Tab Preview	Preview is Visible Properly.
103	check the all fields available	email &password fields submit button forgot password link all are available

104	check the font style and size	font style and size are working fine and user show proper font style and size
105	check the email field	email field accept character number and special symbol
106	check the number field	number field accept unlimited charcte
107	check the username field	verify the username field accept number character and special symbol also
108	check the page is responsive	login page is responsive
109	check the page	when user enter email field and click the login button then login button is not working
110	check the page	when user enter password field and click the login button then login button is not working
111	check the password field	verify the password filed accept number ,character and special symbol.
112	check the password field	password filed accept unlimited character.
113	check the password field	verify the password filed accept number ,character and special symbol.
114	check the Login button	when user blank the email and password field and click Login button then login button is not clickable.
115	check the field	when user enter email and password placeholder move up side.
116	check the login with Facebook link	when user click the login with Facebook link it redirect to the Facebook login page

117	check the login with Facebook link	check the login with Facebook link clickable or not
118	check the Forgot password link	check the Forgot password field link clickable or not.
119	check the Forgot password link	when user click the forgot password link it redirect the reset your password page.
120	check the Sign up link	check the Sign up link is clickable or not.
121	check the Sign up link	when user click the Sign up link it redirect the sign up page.
122	check the meta link	when user click the meta link it redirect to the meta website.
123	check the about link	when user click the about link it redirect to about page.
124	check the blog link	when user click the blog link it redirect to blog page.
125	check the job link	when user click the job link it redirect the careers page.
126	check the help link	when user click the help link it redirect to the help page
127	check the API link	when user click the API link it redirect to another page.
128	check the privacy link	when user click the privacy link it redirect to privacy policy page.
129	check the terms link	when user click the terms link it redirect to terms of use page
130	check the locations link	when user click the location link it redirect to location page
131	check the Instagram lite link	it redirect to download the Instagram and APK.

132	check the Instagram thread link	it redirect the reels page
133	check contact uploading and help center link	it redirect the help center page
134	check the meta verified link	it refresh the page
135	check the language option	user can change the language
136	check username &password	when user enter valid username &password then successfully login
137	check username	verify username is invalid and password is valid then show error message
138	check password	verify the password is invalid and username is valid then show error message.
139	check both field are blank	verify the both field are blank then show error message but here login button is not clickable.
140	check the Grammer &spelling	check the login page inside all spelling are correct or not
141	check the hide button	it's proper work
142	check the google play store icon	it redirect the google play store to download the Instagram
143	check the apple store icon	it redirect the apple store to download the Instagram.

2) Facebook Login Page:

Functionality Id	Functionality Name	Description
101	Check website Link	Website Opens Properly.
102	Check Tab Preview	Preview is Visible Properly.
103	check the all fields available	email &password ,firstname ,surname,dat of birth, gender fields submit button forgot password link all are available
104	check the font style and size	font style and size are working fine and user show proper font style and size
105	check the first name field	first name field accept character number and special symbol and unlimited character are accepted
106	check the surname field	surname field accept character number and special symbol and unlimited character are accepted
107	check the date of birth field	date of birth field use drop down list we have select that.
108	check the gender field	gender field use radio button we have select only one .
109	check the page is responsive	login page is responsive
110	check the mobile no &email field	when user enter email field it accept number &special symbol and character like .com.co.in etc but mobile number field accept unlimited character

111	check the password	check the password field accept number ,character and special symbol.
112	check the password field	check the password filed have hide or show option
113	check the date of birth	when user select the date of birth today date and click the signup button it 's show error and directly ask the age and side select the option to date of birth dropdown.
114	check the sign up button	check the signup button is clickable or not
115	check the learn more link	check the link is clickable or not
116	check the learn more link	it's redirect to the help center page
117	check the terms link	check the link is clickable or not
118	check the terms link	check the link is clickable or not
119	check the privacy policy link	it's redirect to privacy policy page
120	check the Cookies policy link	check the link is clickable or not
121	check the Cookies policy link	it's redirect to Cookies Policy page
122	check the already have an account link	it is clickable or not
123	check the already have an account link	it's redirect to the login page

124	check the language	it's support many language like Gujarati ,Hindi, Marathi ,Telugu, Nepali and many more
125	check the + icon	it's open language chart and we select any language it's perfectly work.
126	check the sign up link	check it's clickable or not
127	check the sign up link	it's refresh the page
128	check the login link	check it's clickable or not
129	check the login link	it's redirect to the login page
130	check the messenger link	check it's clickable or not
131	check the messenger link	it's redirect to the messenger page
132	check the Facebook lite link	check it's clickable or not
133	check the Facebook lite link	it's redirect to the Facebook lite page
134	check the video link	check it's clickable or not
135	check the video link	it's redirect to the video page
136	check the meta pay link	check it's clickable or not
137	check the meta pay link	it's redirect to the meta pay page

138	check the meta store link	check it's clickable or not
139	check the meta store link	it's redirect to the meta store page
140	check the meta quest link	check it's clickable or not
141	check the meta quest link	it's redirect to the meta quest page
142	check the Ray- Ban-meta link	check it's clickable or not
143	check the Ray- Ban-meta link	it's redirect to -meta page
144	check the meta AI link	check it's clickable or not
145	check the meta AI link	it's redirect to -meta AI page
146	check the Instagram link	check it's clickable or not
147	check the Instagram link	it's redirect to Instagram login page
148	check the threads link	check it's clickable or not
149	check the threads link	it's redirect to Threads page
150	check the Voting information center link	check it's clickable or not
151	check the Voting information center link	it's redirect to Voting information Center page
152	check the privacy policy link	check it's clickable or not

153	check the privacy policy link	it's redirect to privacy policy page
154	check the privacy center link	check it's clickable or not
155	check the privacy center link	it's redirect to privacy center page
156	check the about link	check it's clickable or not
157	check the about link	it's redirect to about page
158	check the create add link	check it's clickable or not
159	check the create add link	it's redirect to login page
160	check the create page link	check it's clickable or not
161	check the create page link	it's redirect to create page
162	check the developers link	check it's clickable or not
163	check the developers link	it's redirect to meta page
164	check the careers link	check it's clickable or not
165	check the careers link	it's redirect to careers page
166	check the cookie link	check it's clickable or not
167	check the cookie link	it's redirect to cookie page

168	check the ad choice link	check it's clickable or not
169	check the ad choice link	it's redirect to help center page
170	check the terms link	check it's clickable or not
171	check the terms link	it's redirect to policy center page
172	check the help link	check it's clickable or not
173	check the help link	it's redirect to help center page
174	check the contact uploading and non user	check it's clickable or not
175	check the contact uploading and non user	it's redirect to help center page
176	check the sign up	check the all the spellings are correct or not

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

-> is the difference between the STLC and SDLC is as the following:

SDLC	STLC
SDLC is stands for Software Development Life Cycle	STLC is stands for Software Testing Life Cycle)
The overall process of creating and delivering software, including all phases from planning to deployment and maintenance.	The specific process of verifying and validating software quality through testing.
Includes phases like planning, requirements gathering, design,	Includes phases like requirement analysis, test planning, test design, test

development, testing, deployment, and maintenance.	environment setup, test execution, and test closure.
To develop high-quality software that meets customer requirements.	To ensure the software is free of defects and meets quality standards before deployment
Responsibility Development team.	Responsibility Testing team

33)What is the difference between test scenarios, test cases, and test script?

Test scenario:

- >A Scenario is any functionality that can be tested. It is also called Test Condition, or Test Possibility.
- >Test Scenario is 'What to be tested'
- >Test scenario is nothing but test procedure.
- >The scenarios are derived from use cases.

Test case:

- >Test cases involve the set of steps, conditions and inputs which can be used while performing the testing tasks.
- >Test Case is How to be tested

Test script:

- >A test script in software testing is a set of instructions that will be performed on the system under test to test that the system functions as expected.
- >There are various means for executing test scripts.
 - Manual Testing
 - Automation Testing

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

- >Test Planning in STLC is a phase in which a Senior QA manager determines the test plan strategy along with efforts and cost estimates for the project.
- >The Test Plan gets prepared and finalized in the same phase.
 - Activities in Requirement Phase Testing
- >Preparation of test plan/strategy document for various types of testing
- >Test tool selection
- >Test effort estimation

- >Resource planning and determining roles and responsibilities.
- >Training requirement

35)What is priority?

- >Priority is Relative and Business-Focused.
- > Priority defines the order in which we should resolve a defect.
- >Priority can be of following types:

1. Low
2. medium
3. High
4. Critical

36)What is severity?

- >Severity is absolute and Customer-Focused.
- > 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.
- >severity can be of following types:

1. major
2. moderate
3. minor
4. cosmetic

37)Bug categories are...

- > 1 1. Functional: Issues with software functionality.
- 2. Performance: Slow performance, high resource usage.
- 3. Security: Vulnerabilities, data breaches.
- 4. Usability: User experience issues.
- 5. Compatibility: Issues with hardware/software configurations.
- 6. Localization: Issues with language or regional support.
- 7. UI (User Interface): Issues with UI layout, design.
- 8. Logic: Issues with business logic or algorithm.
- 9. Error Handling: Issues with error messages or handling.
- 10. Documentation: Issues with documentation accuracy.

38) Advantage of Bugzilla .

-> Bugzilla is an open-source issue bug tracking system.

-> Bugzilla is a defect tracking tool

-> Advantages is as the following:

Advantage:

1. Key features of Bugzilla includes
2. Advanced search capabilities
3. E-mail Notifications
4. Modify/file Bugs by e-mail
5. Time tracking
6. Strong security
7. Customization
8. Localization

39) Difference between priority and severity

-> Difference between priority and severity is as the following:

Priority	Severity
priority indicates the order in which bugs should be fixed	severity describes the impact of a bug on the software's functionality
priority determines how quickly it should be addressed.	Severity assesses the bug's overall impact
Assessed by Product managers, developers, or stakeholders	Assessed by Testing engineers or QA professionals

40) What are the different Methodologies in Agile Development Model?

-> The Agile methodology is a way to manage a project by breaking it up into several phases.

-> Agile is based on the iterative-incremental model.

Methodologies is as the following:

1) SCRUM :

-> SCRUM is an agile development method which concentrates particularly on how to manage tasks within a team based development environment.

-> Scrum is derived from activity that occurs during rugby match.

-> In scrum there are three roles and their responsibilities are explained as

following:

- 1) Scrum Master: Master is responsible for setting up the team, sprint meeting and removes obstacles to progress.
- 2) Product owner: The Product Owner creates product backlog, prioritizes the backlog and is responsible for the delivery of the functionality at each iteration.
- 3) Scrum Team: Team manages its own work and organizes the work to complete the sprint or cycle.

Scrum Roles:

-> There are three scrum roles which list is as the following:

1) Product Owner

->Product Owner is the person who communicates with the clients understands their requirements.

->Product Owner is the responsible person from the company for software development.

2) Scrum Master

-> Scrum Master is the person who handles the scrum meeting.

3) Scrum Team

->The team comprises of persons who work on the project. It can be developers, testers or designers.

2)KANBAN :

-> Kanban is a very popular framework for development in the agile software development methodology.

-> It provides a transparent way of visualizing the tasks and work capacity of a team.

->It mainly uses physical and digital boards to allow the team members to visualize the current state of the project they are working on.

->Kanban originated in Toyota in the 1940s.

->Kanban's meaning in Japanese is billboards.

->The Kanban board has columns and story cards.

41)Explain the difference between Authorization and Authentication in

Web testing. What are the common problems faced in Web testing?

->

Authorization	Authentication
The process of verifying the identity of a user.	The process of verifying what access a user has.
Confirms who the user is.	Confirms what the user can do.
Login with username and password.	Admin users can delete data; regular users cannot.
First, during login or access attempt.	After authentication, when accessing resources.
Login credentials (username/password, biometrics, etc.)	Access control rules, roles, or permissions.
Access is denied with a login error.	Access is denied with a or similar error

Common Problems Faced in Web Testing:

1. Broken Links
->the link is wrong and incorrect.
2. Cross-Browser Compatibility Issues
->some functionality can only work only specified browser.
3. Security Vulnerabilities
->some application or web don't allow access all users.
4. Performance Issues
->if internet connection speed is low then application performance is slow.
5. Poor Responsiveness
-> check the website is responsive or not.
6. Form Validation Failures
->if user blank mandatory field and click on submit button then user face some error.
7. Broken Functionality
->UI elements are not working like button not clicked, radio button not allow to check at least one option.

8. Session Management Problems
->if Session expires then user face some problem .
9. Incorrect Error Handling
-> Error message is not display correctly .
10. Issues with Cookies
->if cookie are expires and user can't use web properly and face some issue.
11. Localization issue
->Language, format, or cultural context not applied correctly.

41)To create HLR & Testcase of Web Based (WhatsApp web , Instagram)

1. WhatsApp Web

-> **HLR :**

Functionality Id	Functionality Name	Description
101	Check website Link	Website Opens Properly.
102	Check Tab Preview	Preview is Visible Properly.
103	check the spelling	check the spelling are correct or not
104	check the font style and size	font style and size are working fine and user show proper font style and size
105	check the QR Code	check the QR code display the screen or not
106	check the internet	check the internet connection proper or not
107	check the camera	check the camera scan the QR code or not
108	check the page is responsive	page is responsive
109	check the step	verify and check the steps are correct or not
110	check the scanner	check when i scan the QR code and at that time internet is cut so

		what happen
111	check the scanner	check if the successfully scan QR then login successfully or not
112	check the login with phone no link	check the login with the phone no is clickable or not
113	check the login with phone no link	it's redirect enter phone no page
114	check the download button	check it's clickable or not
115	check the download button	when click the button it download the whatsapp exe file
116	check the get started link	check it's clickable or not
117	check the get started link	it's redirect the help center page
118	Check the whatsapp logout(using phone)	when user login after that user logout with his phone at that time whatsapp web is also log out
119	check the whatsapp logout(using web)	user also logout usign the WhatsApp web
120	check the back button	when user press browser back button it's redirect another page but whatsapp is also login
121	check the QR	when i login with the scanner and i closed the whatsapp web at that time whatsapp is login check it
122	check the another browser	check when i login with my account in google chrome but i open the Firefox and that time my whatsapp login is not show
123	check the user	check the user is already account on whatsapp

2) Instagram Web:

-> **HLR :**

Functionality Id	Functionality Name	Description
101	Check website Link	Website Opens Properly.
102	Check Tab Preview	Preview is Visible Properly.
103	check the all fields available	email & password fields submit button forgot password link all are

		available
104	check the font style and size	font style and size are working fine and user show proper font style and size
105	check the email field	email field accept character number and special symbol
106	check the number field	number field accept unlimited character
107	check the username field	verify the username field accept number character and special symbol also
108	check the page is responsive	login page is responsive
109	check the page	when user enter email field and click the login button then login button is not working
110	check the page	when user enter password field and click the login button then login button is not working
111	check the password field	verify the password field accept number ,character and special symbol.
112	check the password field	password field accept unlimited character.
113	check the password field	verify the password field accept number ,character and special symbol.
114	check the Login button	when user blank the email and password field and click Login button then login button is not clickable.
115	check the field	when user enter email and password placeholder move up side.
116	check the login with facebook link	when user click the login with facebook link it redirect to the facebook login page
117	check the login with Facebook link	check the login with facebook link clickable or not
118	check the Forgot password link	check the Forgot password field link clickable or not.
119	check the Forgot password link	when user click the forgot password link it redirect the reset your password page.
120	check the Sign up link	check the Sign up link is clickable or not.
121	check the Sign up link	when user click the Sign up link it redirect the sign up page.
122	check the meta link	when user click the meta link it

		redirect to the meta website.
123	check the about link	when user click the about link it redirect to about page.
124	check the blog link	when user click the blog link it redirect to blog page.
125	check the job link	when user click the job link it redirect the careers page.
126	check the help link	when user click the help link it redirect to the help page
127	check the API link	when user click the API link it redirect to another page.
128	check the privacy link	when user click the privacy link it redirect to privacy policy page.
129	check the terms link	when user click the terms link it redirect to terms of use page
130	check the locations link	when user click the location link it redirect to location page
131	check the instagram lite link	it redirect to download the Instagram and APK.
132	check the instagram thread link	it redirect the reels page
133	check contact uploading and help center link	it redirect the help center page
134	check the meta verified link	it refresh the page
135	check the language option	user can change the language
136	check username &password	when user enter valid username &password then successfully login
137	check username	verify username is invalid and password is valid then show error message
138	check password	verify the password is invalid and username is valid then show error message.
139	check both field are blank	verify the both field are blank then show error message but here login button is not clickable.
140	check the Grammer &spelling	check the login page inside all spelling are correct or not
141	check the hide button	it's proper work
142	check the google play store icon	it redirect the google play store to download the Instagram
143	check the apple store icon	it redirect the apple store to download the Instagram.

42)To create HLR and Testcase on this Links. <https://artoftesting.com/>

-> HLR :

Functionality Id	Functionality Name	Description
101	Check website Link	Website Opens Properly.
102	Check Tab Preview	Preview is Visible Properly.
103	check the all fields available	email &name,subject,comment or message fields submit button forgot password link all are available
104	check the font style and size	font style and size are working fine and user show proper font style and size
105	check the email field	email field accept character number and special symbol like .com,@
106	check the first name field	first name field accept unlimited character
107	check the first name field	verify the first name field accept number character and special symbol also
108	check the page is responsive	login page is responsive
109	check the last name field	verify the first name field accept number character and special symbol also
110	check the last name field	number field accept unlimited charcte
111	check the subject field	verify the subject filed accept number ,character and special symbol.
112	check the comment &messgae field	verify the message filed accept number ,character and special symbol.
113	check the comment (textarea) field	verify the textarea field increased the width as per user requirement.
114	check the submit button	it's clickable or not
115	check the submit button	it's send the our message to the server
116	check the page	check when user refresh the page all fields are clear
117	check the page	check when user add some filed and close the page after that open page and data should as it is or removed.
118	Check the page	check the spellings or correct or not
119	check the fields	check the all mandatory fields are

		marked as a asterisk sign
120	check the filed(without data)	check when user don't enter anything and click on submit button it's show error message
121	check the field	check when user enter some field and some leave as blank it' s show error.

43)Write a scenario of only Whatsapp chat messages.

->Verify that a user can send a text message to a contact successfully.

1. Verify that the sent message appears immediately in the chat window.
2. Verify that the recipient receives the message in real-time.
3. Verify that read receipts (blue ticks) appear when the message is read.
4. Verify that users can send emojis, stickers, and GIFs in chat messages.
5. Verify that users can receive and view text messages from contacts.
6. Verify that users can delete a message for themselves or everyone in the chat.
7. Verify that users can forward a message to another contact or group.
8. Verify that users can reply to a specific message in the chat thread.
9. Verify that the chat scrolls automatically to show the latest message.
10. Verify that messages are not sent if there is no internet connection.
11. Verify that a message fails to send if the recipient has blocked the sender.
12. Verify that corrupted or unsupported file formats cannot be sent in chat.
13. Verify that sending excessively large messages is restricted or flagged.
14. Verify that messages are not delivered if the recipient's phone is off or disconnected for a long time.
15. Verify that the app shows an error if the message fails due to server issues.
16. rify that users cannot send messages to contacts not saved or verified.
17. Verify that deleted messages are removed from both sender and receiver as per the time limit.
18. Verify that message timestamps reflect the correct time zone of the sender and receiver.

44)Write a Scenario of Pen.

->scenario of pen:

1. verify and check the pen length as per specification.
2. verify and check the pen is ballpoint or gel pen.
3. verify and check the outer body of the pen.

4. verify and check the outer color of pen.
5. verify and check the brand name is visible or not.
6. verify that user is able to write clearly on different type of paper.
7. check the weigh of the pen.
8. verify the pen work properly on different type of paper(rough, smooth).
9. verify the pen is with cap or without cap.
10. verify the ink color of the pen.
11. verify the text written by pen is erasable or not.
12. verify the pen is waterproof or not.
13. verify and check the pen gravity.
14. Verify if the pen can support multiple refills or not.
15. check the strength of the outer body.
16. verify that the user is able to refill the pen with all the supported ink types.
17. check the how much pressure is required to write with the pen.
18. verify and check the written using pen is faded or not.
19. verify and check we can easily write using the pen.

45)Write a Scenario of Pen Stand.

->scenario of Pen Stand:

1. verify and check the pen stand as per specification.
2. verify and check the pen stand weight.
3. verify and check the pen stand is plastic ,wood or metal.
4. verify and check the pen stand design is as per the specification.
5. Verify that the pen stand can hold multiple pens without falling.
6. Verify that the pen stand is stable on a flat surface.
7. Verify that the pen stand can hold pens of different sizes and thickness.
8. Verify that the pen stand is made of non-breakable material
9. Verify that the pen stand design allows easy removal and placement of pens.
10. Verify that the pen stand can also hold other stationery items like pencils, scissors, markers.
11. verify and check the color of the pen stand.
12. verify and check the pen stand how much space required.
13. verify and check the pen stand pen does not get stuck in the pen stand.
14. Verify that the pen stand does not leak color or paint when wet.

46)Write a Scenario of Door.

->scenario of Door :

1. verify and check the door as per specification.
2. verify and check the door weight is as per specification.
3. verify and check the door color is as per specification.
4. Verify that the door opens and closes smoothly without noise.
5. Verify that the door locks and unlocks properly with the correct key.
6. Verify that the door handle is easy to grip and operate.
7. Verify that the door closes completely without gaps.
8. erify that the door does not shake when closed.
9. verify the door material is wood or Matel.
10. verify the door material is strong or not.
11. Check if the door opens inwards or outwards.
12. verify if the door is single door or bi-folded door.
13. Verify if the door is sliding door or rotating door.
14. check the quality and strength of the door.
15. Check the type of locks in the door.
16. Verify if the door is having stopper or not.
17. Verify if the door closes automatically or not – spring mechanism.
18. Check the door condition when used extensively with water.
19. Check the amount of force- pull or push required to open or close the door.
20. Check the door condition in different climatic conditions- temperature, humidity etc.

47)Write a Scenario of ATM.

->scenario of ATM:

1. Verify that all the labels and text boxes, buttons, images, and links are present on the screen.
2. Check the informative text written displayed on the screen is clearly visible and legible.
3. Verify that the application's UI is responsive i.e. it should adjust to different screen resolutions of ATM machines.
4. Verify that the size, color, and UI of the different objects are as per the specifications.
5. Verify the type of ATM machine, if it has a touch screen, both keypad buttons only, or both.
6. Verify that on properly inserting a valid card different banking options appear on the screen.

7. Verify that the ATM powers on and displays the welcome screen.
8. Verify that the ATM accepts a valid debit/credit card.
9. Verify that the touch of the ATM screen is smooth and operational
10. Verify that the user is presented with the option to choose a language for further operations.
11. check the user is asked to enter a pin number before display any card account details.
12. Verify that there is a limited number of attempts up to which the user is allowed to enter the pin code.
13. Check that the pin is displayed in masked form when entered.
14. Verify that the user is presented with different account type options like- saving, current, etc.
15. Verify that the user is allowed to get account details like available balance.
16. Verify that the ATM dispenses the correct amount of cash.
17. Verify that the ATM returns the card after the transaction is completed.
18. Verify that a transaction receipt is printed when the option is selected.
19. Verify that the ATM ends the session after inactivity timeout.
20. Verify that the ATM supports multiple languages if configured.
21. Verify that the ATM does not accept an expired or blocked card.
22. Verify that the ATM does not proceed if the wrong PIN is entered 3 times.
23. Verify that the ATM shows an error if the network is unavailable.
24. Verify that the ATM does not complete the transaction if the card is removed too early.
25. Verify that the ATM session is terminated after multiple failed login attempts.

48)When to used Usability Testing?

->Usability testing is a technique used to evaluate a product or system by testing it with real users.

-> The goal is to observe how easily and effectively users can complete tasks, identify any problems or confusion they face, and improve the overall user experience.

When to Use Usability Testing:

1. During the design phase to validate prototypes and find design issues early.
2. Before the final product launch to ensure the interface is intuitive and user-friendly.

3. When introducing new features to check if users can easily understand and use them.
4. After a redesign to verify improvements or uncover new issues.
5. When user feedback or complaints indicate usability problems.
6. During beta testing to gather real user insights.
7. To ensure compliance with accessibility and usability standards.
8. To improve user satisfaction, reduce errors, and increase product adoption.

49)What is the procedure for GUI Testing?

-> GUI stands for Graphical User Interface.

->GUI testing is the part of system testing.

-> 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. Check that the images have good clarity
2. Check that the images are properly aligned
3. Check the positioning of GUI elements for different screen resolution
4. Check Font used in application is readable
5. Check the alignment of the text is proper
6. Check the Color of the font
7. check the warning messages is display proper
8. check the spelling
9. check the header is proper aligned
10. check the size ,position, height and width of the element.
11. check the zoom in and zoom out properly

50)Write a scenario of Microwave Owen.

->scenario of Microwave Owen:

1. Verify that the Microwave Owen is as the specification.
2. Verify the Microwave Owen material is used.
3. Verify that the microwave oven powers on when connected to a power source.
4. Verify that the door closes properly and locks during operation.
5. Verify that the microwave starts cooking when the timer is set and the start button is pressed
6. Verify that the oven stops heating when the timer ends.
7. Verify that the light inside the oven turns on during operation.
8. Verify that the microwave heats food evenly at a given power level.

9. Verify that the pause/stop button works correctly during a cycle.
10. Verify that the display shows accurate time and settings.
11. Verify that the microwave does not start if the door is open.
12. Verify that the oven does not heat if the start button is not pressed.
13. Verify that the microwave does not operate if power is disconnected.
14. Verify that the microwave stops immediately when the door is opened mid-cycle.
15. Verify that the oven does not allow input of invalid timer values
16. Verify that the display shows an error if the sensor or fuse is damaged.
17. verify and check the color of Microwave Owen is as per the specification.
18. verify and check the logo and brand is present or not.
19. Check the oven's functionality with different kinds of food – solid, and liquid.
20. Check the oven's functionality with different food at different temperatures.
21. Verify the oven's functionality with different kinds of container material.
22. Verify that the digital display is clearly visible and functions correctly.
23. Verify that the oven's door gets closed properly.
24. Verify that the oven's door opens smoothly.

51)Write a scenario of Coffee vending Machine.

->scenario of Coffee vending Machine:

1. Verify that the Coffee vending Machine is as the specification.
2. verify and check the outer body and internal part of the Coffee vending machine.
3. verify and check the color or the Coffee vending machine.
4. verify and check the brand and logo is present or not.
5. verify and check the brand and logo is display properly or not.
6. Verify the power requirements of the machine.
7. Verify that the digital display displays correct information.
8. Check if the machine can be switched on and off using the power buttons.
9. Check for the indicator lights when the machine is switched on-off.
10. Verify that the functioning of all the buttons work properly when pressed.
11. Verify that each button has an image/text with it, indicating the task it performs.
12. Verify that system should display an error when it runs out of ingredients.
13. Verify that pressing the coffee button multiple times leads to multiple serving of coffee.

14. Verify that machine should not make too much sound when in operation.
15. Verify the input mechanism for coffee ingredients-milk, water, coffee beans/powder, etc.
16. Verify that the quantity of hot water, milk, coffee powder per serving is correct.

52)Write a scenario of chair.

-> scenario of chair:

1. Verify that the chair is as the specification.
2. verify and check the weight of the chair.
3. verify and check the color of the chair.
4. verify and check the weight of the chair.
5. verify and check the material of the chair is wood, plastic.
6. Check if the chair's leg are level to the floor.
7. Check the usability of the chair as an office chair, normal household chair.
8. Check if there is back support in the chair.
9. Check if there is support for hands in the chair.
10. Check if cushion is provided with chair or not.
11. check the chair material is brittle or not.
12. Check the condition when washed with water or effect of water on chair.
13. Check the height of the chair's seat from floor.
14. verify and check the easily can move one place to another .
15. verify and check the how much space is required to chair.

53)To Create Scenario (Positive & Negative)

1)Gmail (Receiving mail)

-> scenario of Gmail (Receiving mail):

1. Verify that Gmail receives emails sent from another Gmail account.
2. Verify that Gmail receives emails sent from a different domain.
3. Verify that the received email appears in the "Inbox" folder.
4. Verify that the subject and content of the email are displayed correctly.
5. Verify that email attachments are received and accessible.
6. Verify that the timestamp of the received email is accurate.
7. Verify that the sender's name and email address are shown correctly.
8. Verify that email notifications are triggered when a new email is received.
9. Verify that Gmail does not receive an email if the sender's email address is invalid. Verify that Gmail does not receive spam emails in the Inbox.
10. Verify that Gmail does not receive the email if the network connection is

down.

11. Verify that Gmail blocks and filters malicious/phishing emails to the Spam folder.
12. Verify that emails with unsupported or harmful attachments are flagged or rejected.
13. Verify that Gmail does not deliver emails if the Google account is deactivated.
14. Verify that Gmail does not receive delayed messages due to sender server issues.

2)Online shopping to buy product (Flipkart)

-> scenario Online shopping to buy product:

1. Verify that a user can log in or not.
2. Verify that the product catalog is visible and products can be browsed or searched.
3. Verify that a user can add a product to the cart successfully.
4. Verify that the product details (name, image, price, stock, etc.) are displayed correctly.
5. Verify that the cart updates correctly when a product is added or removed.
6. Verify that the checkout process starts successfully from the cart.
7. Verify that a valid shipping address can be added/selected.
8. Verify that a user can select a valid payment method.
9. Verify that payment is processed and a confirmation message is shown.
10. Verify that an order confirmation email/SMS is sent after purchase.
11. Verify that the user cannot add a product to the cart if it is out of stock.
12. Verify that the system shows an error for invalid coupon codes.
13. Verify that the user cannot proceed to checkout with an empty cart.
14. Verify that the purchase fails if the payment method is invalid or fails.
15. Verify that the system does not allow checkout without a shipping address.
16. Verify that an error is displayed if network connectivity is lost during payment.
17. Verify that duplicate orders are not placed if the "Buy Now" button is clicked multiple times.
18. Verify that the user cannot place an order if item quantity exceeds stock.
19. Verify that an appropriate message is shown if the product is removed from the store before checkout.

54)Write a Scenario of Wrist Watch.

->scenario of Wrist Watch:

1. Verify that the wrist watch displays the correct time.
2. Verify that the date updates automatically at midnight.
3. Verify that the hands move accurately on an analog watch.
4. Verify that digital time is displayed in the correct 12/24-hour format.
5. Verify that the watch keeps accurate time over 24 hours.
6. Verify the material of the watch and its strap.
7. Check if the shape of the dial is as per specification.
8. Verify the dimension of the watch is as per the specification.
9. Verify the weight of the watch.
10. Check if the watch is waterproof or not.
11. Verify that the stopwatch or timer functions work correctly.
12. Verify that the numbers in the dial are clearly visible or not.
13. Check if the watch is having a date and day display or not.
14. Verify the color of the text displayed in the watch – time, day, date, and other information.
15. Verify if the brand of the watch and check if its visible in the dial.

55)Write a Scenario of Lift(Elevator)

-> scenario of Lift:

1. Verify the design of the lift is as per the specification.
2. Verify the type of door of the lift is as per the specification.
3. Verify the capacity of the lift in terms of the total weight.
4. Verify that the lift moves to the particular floor as the button of the floor is clicked.
5. verify the which material is used to made lift.
6. verify the door is automatic or manually.
7. verify all button are perfectly work or not.
8. verify light and fan in the lift.
9. Verify that in case the multiple floor number button is clicked, the lift should stop on each floor
10. verify the emergency button is available or not.
11. verify the emergency button is working or not.
12. verify open and close button is working properly or not.

13. verify the all button are pressed normally or not.

56)Write a Scenario of WhatsApp Group (generate group)

->scenario of WhatsApp Group :

1. Verify that a user can create a new WhatsApp group.
2. Verify that the group name can be set or not.
3. Verify that the group is created after adding at least one participant.
4. Verify that the group photo can be added during creation.
5. Verify that the group appears in the chat list after creation.
6. Verify that the creator is automatically made the group admin.
7. Verify that participants receive a notification when added to the group.
8. Verify that the group can include members from both phone contacts and invite links.
9. Verify that the newly created group allows sending and receiving messages.
10. verify that user can see how many person see his message.
11. verify that user can group videocall or not.
12. verify user can voice call or not.
13. verify other person change the Group icon or not.
14. verify other person can change the bio or not.
15. verify user can send image/video/contact /location or document etc or not.
16. verify user can send forwarded image or not.
17. verify user can use payment option or not.
18. verify user can send voice message or not.

57)Write a Scenario of Whatsapp payment

-> scenario of Whatsapp payment:

1. verify that payment option is available or not.
2. verify that without internet connection user can use the payment option or not.
3. verify payment option is open or not.
4. verify that user link bank account to WhatsApp payment.
5. verify UPI setup complete or not.
6. verify user link valid phone number to bank account.
7. verify user can send money which user use WhatsApp payment option or not.
8. verify user can receive money from WhatsApp account or not .
9. verify that confirmation message display or not.
10. verify that amount is deduct from the sender account or not.

11. verify that amount increased receiver account or not.
12. verify that sender and receiver receive text message when user transaction .
13. verify the transaction history is saved sender and receiver or not.
14. verify if user enter 3 time invalid PIN then user block account or not.
15. when user enter valid pin then user will do further process.
16. verify user have multiple account then user can easily switch account or not.