WAITS IN SELENIUM:-

There are three types of waits in Selenium

1) Implicit wait

2) Explicit wait

3) Fluent wait

1) Implicit wait:

a) when we know the exact time taken by Browser to load the web page then we use implicit wait

b) Implicit wait is applicable to all the page

Syntax:

driver.manage().timeouts().implicitlyWait(20, TimeUnit.SECONDS);

2) Explicit Wait:

When we don't know the exact time to load webpage then we use explicit wait.

Syntax:

WebDriverWait wait = new WebDriverWait(driver,10);

wait.until(ExpectedConditions.invisibilityOfElementLocated(By.xpath(xpathExpression)));

3)Fluent wait

In fluent wait, we use a time unit with expected conditions to be happen to break the delay and provide a frequency unit also.

FluentWait<WebDriver> wait2 = new FluentWait<WebDriver>(driver);

wait2.withTimeout(20,TimeUnit.SECONDS);

wait2.pollingEvery(5,TimeUnit.SECONDS);

wait2.ignoring(NoSuchElementException.class);

Verification / Assertion in testing

There are two types of Assertions:

1) Hard assert

2) Soft assert

1) Hard assert:

In hard Assert if assertion get to fail the immediate exception will be thrown for current @Test and the next line in the current @Test will not be executed and it fails the test.

Once the current test will fail testNG execute the next @Test.

2) Soft assert:

In soft assert assertion get fail then it records the failure event and continues the execution

It will not fail the test.

Method of assertion:

Assert.assertEquals();

Assert.assertNotEquals();

Assert.assertNull();

Assert.assertNotNull();

Assert.assertTrue(Condition);

Assert.assertFalse(Condition);

How to handle exception in Java:-

Error:

Error are system generated means it occurs due to system compatibility not due to the code written by programmer.

For example : stack overflow, error cannot handle program code.

Exception :-

Exceptions are occur due to the programming code where programmer can handle by using try and catch block.

User defined exception:

The exception which are made by user known as user defined exception.

```
public static void main(String args[]){
int a=5;
int b=0;
int c=3;
try{
c=a/b;
System.Out.println(c);
}
Catch(ArithmeticException e )
{
b=5;
c=a/b;
System.Out.println(c);
```

throw, throws, throwable

throw:

throw is a keyword used to throw an exception explicitly by program.

throws:

throws keyword is used method declarations indicate that method may throw particular

Exception.

```
public class DemoMain {

    public static void main(String[] args) throws InterruptedException {
    }
```

throwable:

throwable is supermost class of throws.

---

final,finally,finalize

final:-

final is keyword in java use to restrict the value of variables or overriding of method or inheritance of class .

we cannot change the value of final variable

final method cannot be override.

A final class can not be inherited

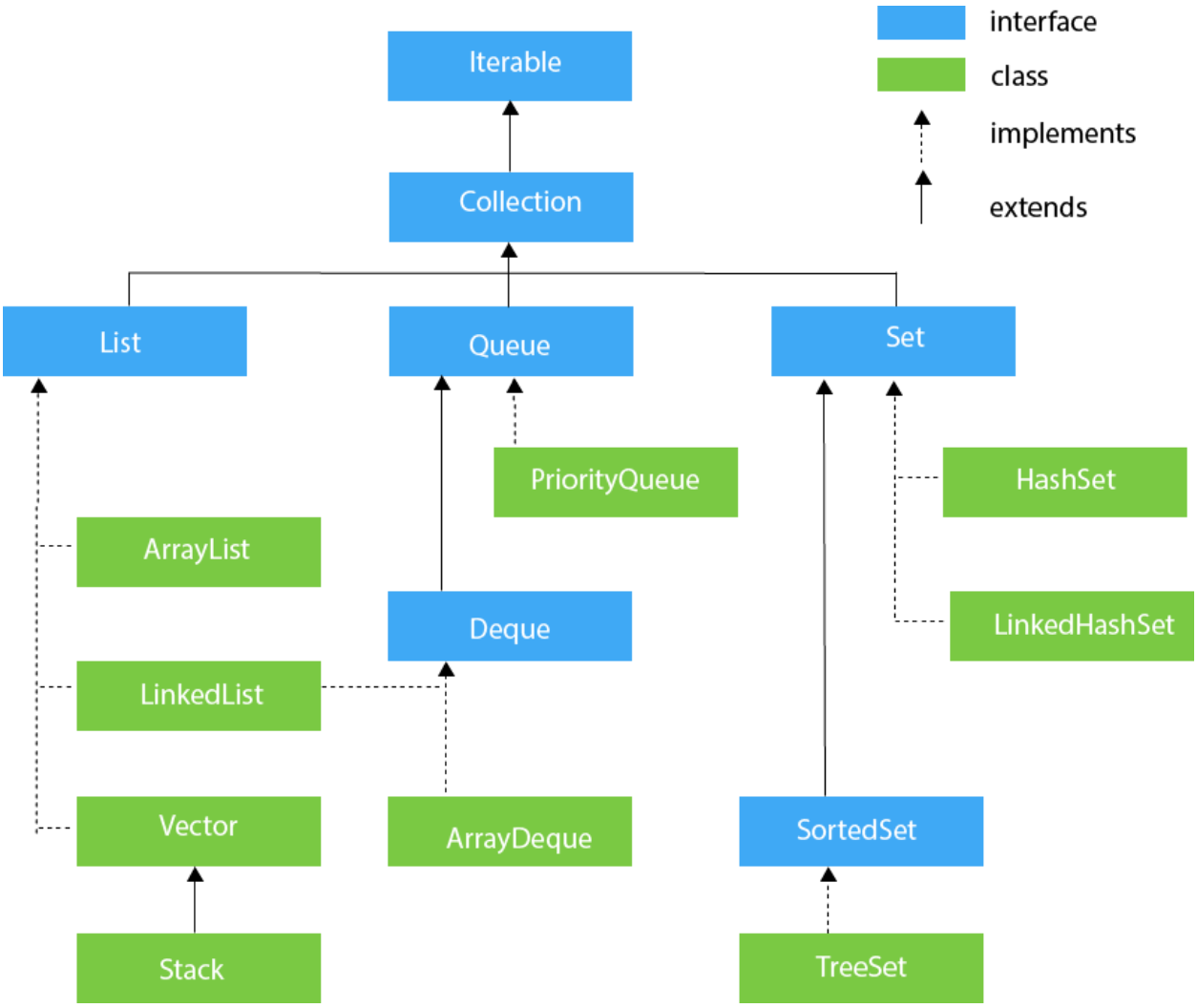
finally:-

finally is a block used with try and catch blocks the code under finally block will be executed either exception is arrived or exception is not arrived.

finalize:-

finalize is a method use to erase the garbage value or garbage data .

Collection


interface
class
implements
extends
Iterable
Collection
List
Queue
Set
PriorityQueue
HashSet
ArrayList
Deque
LinkedHashSet
LinkedList
Vector
ArrayDeque
SortedSet
Stack
TreeSet

Difference between

	Data Structure	**Default capacity**	**Duplicate value**	**Null value**	**Order of Insertion**
Array List	Reliable	10	Yes	Yes	Yes
Vector	Doubly	10	Yes	Yes	Yes
Linked List	Linear	Not fix	Yes	Yes	Yes
Hash set	Hash Table	Not fix	Not fix	Only one	Random Insertion
Linked Hash	Hybrid	Not fix	Not fix	Only one	Yes
Tree Set	Balanced tree	Not fix	Not fix	Only one	Ascending Order
Priority Queue	Heap	Not fix	Yes	Not fix	Random Insertion

LIST	**SET**
1)Allow duplicate value	1)Does not allow duplicate value
2)Any number of null value	**2)**only one number of null value
3)List maintain insertion order	**3)** Set does not maintain insertion order

Array List	**Vector**
1)Array list is not synchronize	1)Vector is synchronize
2)Array list is not thread safe	2)Vector is thread safe
3)Not a legacy class	3)Having legacy class
4)High performance	4)Low performance
5)Data structure reliable	5)Data structure doubly

Sr. No.	Key	ArrayList	LinkedList
1	Internal Implementation	ArrayList internally uses a dynamic array to store its elements.	LinkedList uses Doubly Linked List to store its elements.
2	Manipulation	ArrayList is slow as array manipulation is slower.	LinkedList is faster being node based as not much bit shifting required.
3	Implementation	ArrayList implements only List.	LinkedList implements List as well as Queue. It can acts as a queue as well.
4	Access	ArrayList is faster in storing and accessing data.	LinkedList is faster in manipulation of data.

Hash Map	Hash Table
1)Hash Map is not Synchronize	1)Hash Table is Synchronize
2)Hash Map is not thread safe	2)Hash table is thread safe
3) Hash Map is not a legacy class	3) Hash table having legacy class
4) Hash Map is high performance	4) Hash table has low performance
5)Data structure reliable	5)Data structure Doubly
6)Can store one null key and any number of null value	6)Cannot store null key and null value.

Which type of Selenium Exception you handle in your career.

1)WebDriverException:-

When URL is not well found then we get this exception

2)UnreachableBrowserException:-

If we interrupt the browser while execution then we get this exception

3)NoAlertPresentException:

When we try to handle the other popup using alert interface at that time we get this exception

4)UnhandleAlertException:

When we are tring to perform action on the main page without handling alert popup at that time we get this exception

5)UnexpectedTagnameException

When we are tring to handle the customize list box using select class at that time we use this exception

6)InvalidElementStateException:

When you are trying to handle the disable element then we will get this exception.

7)StellException:

In performing action on element selenium found that element is not present on downpage which was previously located or identified

After refreshing the page all the element for DOM(document object model)page get corrupted at that time use this exception.

8)UnsupportedOperationException:-

When we are trying to deselect any single selected checkbox or list box at that time get this exception.

How to execute the fail test cases only?

-After execution testNG generate the suit file called as testNG-failed.xml on executing this suit we can execute fail test case.

How to take Screenshot of fail Test case?

-By using listener interface , in that ITestListener is important class of listener interface

What was your rolls and responsibility in previous company?

-

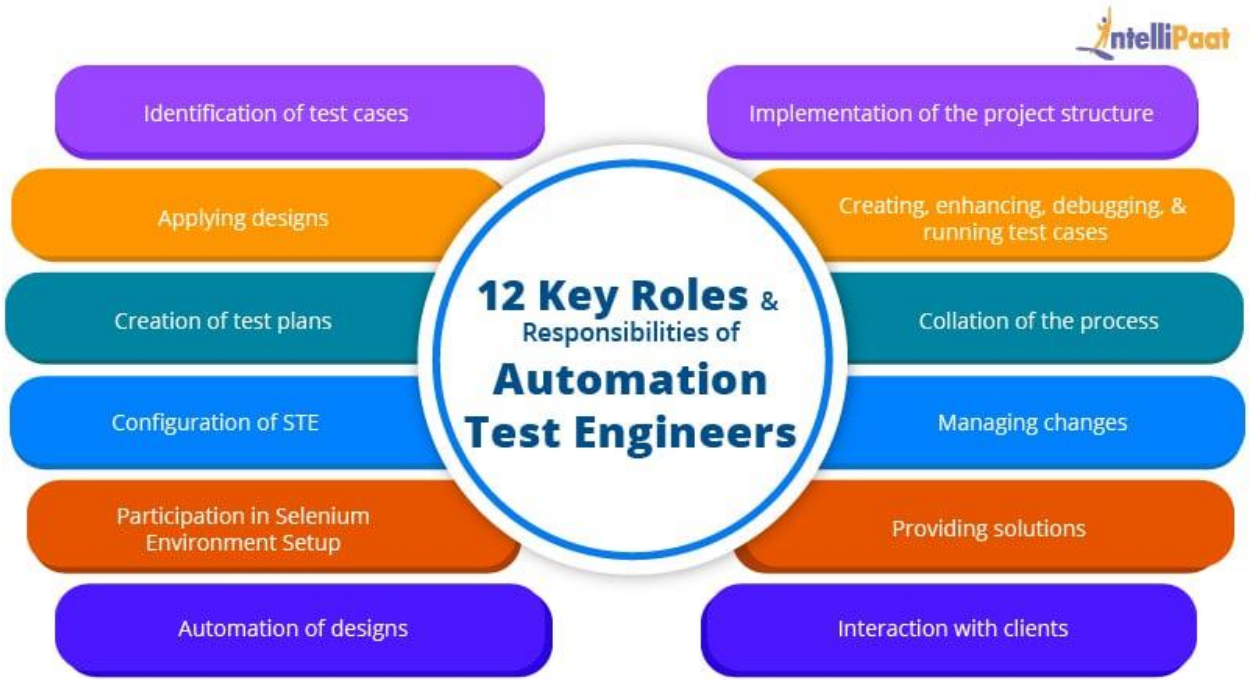
Roles in Manual testing-

- Review and analyze system specifications
- Collaborate with QA Engineers to develop effective strategies and test plans
- Execute manual test cases and analyze results
- Evaluate product code according to specifications
- Create logs to document testing phases and defects
- Report bugs and errors to development teams
- Help troubleshoot issues
- Conduct post-release/ post-implementation testing.
- Work with cross-functional teams to ensure quality throughout the software development lifecycle.

OR

As a manual tester I have Experience of Sanity testing ,system and functionality testing in system and functionality testing –I have hands experinrce to work on functional testing non functional testing ,user accepting testing

Roles and respncibility in Automation testing:



OR

-Locating the Webelements, creating the POM classes and test classes ,preparing test data for execution.

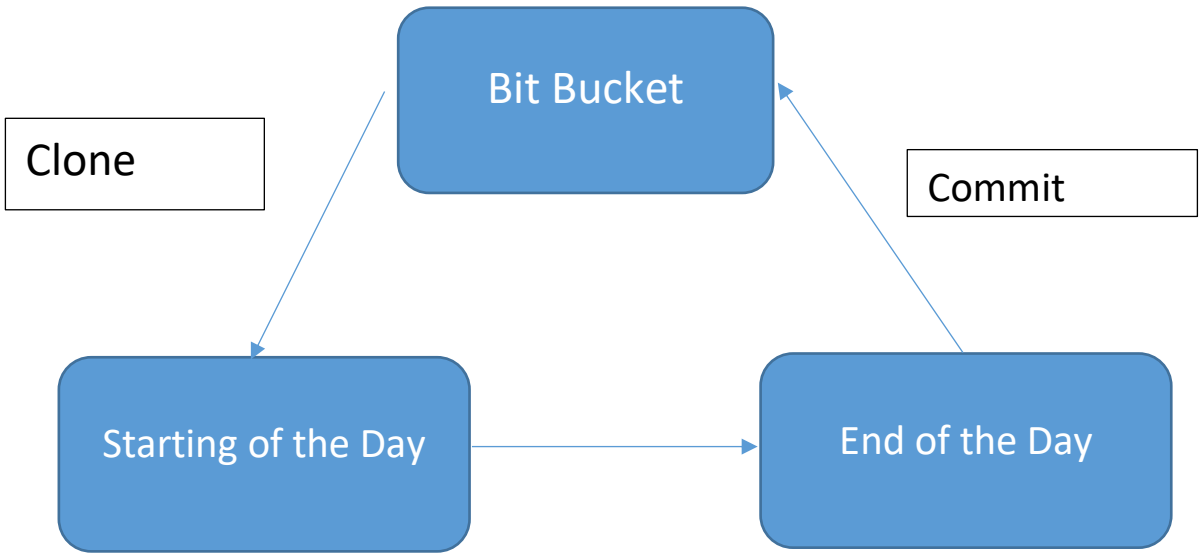
-Identifing automation test cases from regression suit.

Where you maintain your source code?

-1)Bit bucket

2)github

How to clone and Commit?



Project –Right click-Team-commit,pull

What is Jenkin?

-Use to automate the project where we can execute our test suit on specific time ,we can set the timers for execution of Jenkin

-Jenkin support the maven plug-in.

Do you handle the Jenkin?

-No(Sinear do this)