**ASSINGMENT**

**GIT**:

Git is a tool. It is used to push the code to remote and pull the code to the remote. It is source code management tool.

It is also called as local eclipse workspace, web based tool and GitHub Remote.

**GIT COMMAND:**

**$ git config --global user.email (registered email id):**

It is one time activity. It is configure part of our email id’s.

**$ git config --global user.name registered name:**

It is one time activity. It is configure part of our user name’s.

**$ git init :**

It is used to initialise the empty repository and it is an empty file. It is one time activity.

**$ git remote add orgin URL:**

It is one time activity for one repository. It is used to create the link between the remote and the local.

**$ git add . :**

It is used to add the local code to the remote.

**$ git commit –m “comments” :**

It is used to commit the code to the remote.

**$ git remote –v:**

It is used to check wheather both fetch and push are in same url or not.

**$ git push –u orgin master:**

It is used to push the code to the master.

**$ git clone Url:**

It is used to download the project from remote to local workspace.

**$ git fetch:**

It is used to fetch the entire branch.

**$ git checkout branch name:**

It is used to switch remote to our branch.

And again repeat

**$ git add .**

**$ git remote add orgin Url**

**$ git commit –m “comments**”

**$ git push –u orgin branch name**

It is used to push the code our branch.

**$ git pull orgin master:**

It is used to pull the code from remote to local

**$ git push –force:**

It is used to push the code from local to remote and it is break the code also.

**MANUAL TESTING**

**Five key reasons:**

**User Experience :**

* Human Tester’s can easily identify when something look off.
* Automated Tester’s does not identify our visual errors.

**Exploratory Testing:**

* It is an think activity. Tester’s are more involved in minimum planning and maximum execution.

**Manual Test Report And Descriptive:**

* Only manual tester’s clearly understand and write report that explain our problem . It is more static in nature.

**Initial Investment Of Time And Money:**

* Manual Testing is less reliable testing method because it is conducted by human tester’s. Compare to Automation, Manual Testing is low cost. It is easily find out the errors and mistakes. It is only save the money and time consuming is high.

**Manual Testing is User Friendly:**

* ROI delivered by manual tester’s and proves to be good

**TESTING TYPES:**

There are two types

* Functional Testing ( AT, MT, WST)
* Non Functional Testing (PT, UT, AT)

**Functional Testing:**

* It is type of software testing where the system against the functional requirement or specification.
* Functions or Features are tested by feeding them input and examine the output
* Functional Testing is nothing but checking the functionalities of the particular project
* It is used to check the each and every component of the application is working or not

**Non Functional Testing:**

* It is type of software testing to check the non functional aspects such as (performance,usability and reliability)etc of software application.
* Non functional parameters are never addressed by function testing.

**Difference :**

**Functional Testing**

* Checking only the functionalities of the project
* Functional Testing is executed first
* Manual Testing or Automation Tool can be used this testing
* Easy to do manual testing

**Examples** : Unit Testing,Regression Testing, Integrated Testing,Smoke Testing and Sanity Testing

**Non Functional:**

* Checking the non functionalities aspects such as performance,usability and reliability of the software application
* Non Functional testing should be performed after functional testing
* Using tools this testing will be more effective
* Tough to do manual testing

**Examples**: Performance Testing, Usability Testing Accessbility Testing etc:

**About Selenium:**

* Selenium is paid tool and it is an open source . It is only used for Web Based Applications. It is not used for desktop applications.

**About Unified Functional Testing (or) Quick Test Proffessional :**

* UFT or QTP is used for Wed Based and Desktop Applications also.
* It is an open source

**Appium Tool**

* It is a tool used for mobile application.

**Manual Testing:**

* It is process of finding out of defects or bugs in a software program.
* Tester plays an important roles of end users and verify all the feature of the application is working or not
* The tester manually execute test script without any automation tool

**Performance Testing:**

* Perforence Testing is a process of determining speed,responsiveness and stability of a computer ,network or software program define under a work load.

**Defect Clustering:**

* When small number of modules contains most of the bugs detected and show the most operational failures

**Pesticide Paradox:**

* When the same test case repeated over again and again , eventually the test cases will no longer find new bugs.

**Web Based Services:**

* It is a technology independent and application platform .
* It is unit of managed code. It can be remotely invoked using http and activated using http request.
* It is used to expose the functionality of the existing code over the network ,once it is exposed on the network other application can using functionality of the program
* It can be accept different application like share the data ,talk the data and services among themselves.

**Usability testing:**

* It is type of testing which means small set of target end users of the software systems and expose the defects.
* The main purpose of the usability testing, easy to use the application and flexibility in handling control.
* It is also know as User Experience design testing(UX).

**Accessibitlity Testing:**

* It is type of software testing and subset of usability testing
* It performed ensure that the process being tested by people dissabilites like hearing ,color blindness and other disadvantage groups