

# What, Why, When, Who, Where, How of software testing?



**Software** has become almost inevitable in today's world . It's like **Electricity** in the early 21st century . computers ,mobile phones ,calculators, lab testing equipments were some of the examples. But today the technology has so evolved that we find it everywhere like :

- Smartphone's – we never wake up without **facebook**, **whatsapp** pings .
- Mac books ,ultra books, Tablets – 'Laptop' is no longer used term .
- Watches and fitness bands – This is a big WOW! – an arm band could do many things for you.
- **Banks** – ever imagined transfer of money with few clicks from your phone. Only Hollywood **movies** used to have these kind of onscreen clippings.



The list goes on and on. Now we will look at the 5W of

**5W's of Testing are :**

## **1.What is software testing?**

Is a process, in which all the phases like Test planning, Test development, Test execution, Result analysis, Bug tracking and Reporting are accomplished successfully.

To simply define '*Verification & Validation of software is called Testing*'.

## **2.Why software testing is required?**

Is required to Identify defects, isolate, subjected to fixes and ensure a quality product .

Examples include:

- We have mission critical situations where 'failure is unacceptable'.
- Banks, flight controls ,intelligence systems ,antivirus ,security etc should run reliably,each and every time with accuracy.
- My friend bought a LED television and found a defect in compatiability. It required to send back to the vendor for installing a patch . Imagine how difficult the whole process would be ?

### **3. When do we test a software ?**

This depends on various factors and based on the requirement . for example a Gmail login page can be tested once the login form is completed. We will discuss about the details in later posts.

### **4. Who is responsible for testing the software ?**

Test Engineer's , QA analysts , Programmer analysts and hierarchy has many paths. we should accept the fact that its not that easy(as one thinks) to test , it requires the following skill sets:

- Knowledge of Basic principles of testing.
- Types of Testing and their applicable areas.
- Test Management
- Test Automation
- Organisation and People Management

### **5. Where does software testing takes place?**

Its everywhere, But to be specific In the service and product based organisations, client's workplace etc.

### **6. How is Software testing Performed?**

Testing is considered a project of its own. Although it is one of the phases of a software project. It includes Test Planning, design, execution, reporting, maintenance , support. This will be covered under software testing life cycle post.