**Test Process**

In our company, we follow **Agile scrum** framework for testing the project. Once we got the new project, an initial project **Kickoff meeting** will take place, where we discuss who is **client**, tentative project **duration** and **delivery** and identify the resources. Then **“User Stories”** are made from product owner and complied to **“Product Backlog”**. From product backlog, **BRS** is made by our business analyst. Then, **RTM, Test plan** is made by our team manager and senior test lead and it’ll signed off by our client. As per the test plan, we make test **environment** and making of SCRUM **teams**  consist of 5 to 7 members each. Then, **“Sprint”** is created based on user stories and **work is assigned** to testers based on “sprint”. Then our testers do creation of **test data, test case** from BRS, writing of **test scripts** for automation. We do **“Smoke Testing”** in order to ensure all critical functionalities of the program are working fine or not and if they **fail this test**, no further testing activity is performed and all modules are **assign** back to **developers** for fix. If **it is passed**, **test execution** takes place. If any **bug is found** that get assigned to module developer and get logged in bug tracking tool **“Bugzilla”** tool.. As per our standards, All defects are assigned based on **4 severity level** like urgent, high, medium and low. On **bug fix** tester do bug **verification** and **regression** testing of all related modules. If **bug passes** the verification it is marked as verified and marked as **closed**. **Otherwise** bug is **assigned** as per **our standards again**. **“Daily review meeting”** will take place in order about status of our project and also **“sprint review meeting”** will takes on once sprint is over to know about challenges faced. And finally, **test result, defect report, test summary report and test procedure guidelines** are delivery to client.

**Raise a defect**

When my Test Case is failed, I will analyse the failing causes.

To file the bug we use Bugzilla is a Defect tracking tool,

* login into the existing account

### Creating a new Bug-report

* Enter severity, Summary, Description
* Submit
* Bug Id is created
* Add additional information to the assigned bug like URL, keywords, whiteboard, tags
* select deadline date and also status of the bug

Then I will raise a defect that will be get assigned to the Developer. I will provide the short description of the bug, Title of the bug and steps to reproduce the bug, Provide snapshots, Log Files and other supported files if needed. Also, the bug priority, severity,OS versions, software platform, browser and browser version number etc. should be mentioned.

**When to stop testing**

* Deadlines (release deadlines, testing deadlines, etc.)
* Test cases completed with certain percentage passed
* Test budget depleted
* Coverage of code/functionality/requirements reaches a specified point
* Bug rate falls below a certain level
* Beta or alpha testing period ends

**What if there isn’t enough time for thorough testing?**

Use **risk analysis** to determine where testing should be focused. This requires judgement skills, common sense, and experience. (If warranted, formal methods are also available.) Considerations can include:

* functionality is most **important** to the project’s intended purpose?
* functionality is most **visible** to the user?
* functionality has the largest **safety** impact?
* aspects of the application are most important to the customer
* functionality has the largest **financial** impact on users

**When do you feel automation is better?**

* When our product is **stable** to automate
* For **regression** test, we can **save time** by using automation
* Release acceptance testing, quickly we can perform regression on every release!

But we need a skilled resources to develop automation, to maintain automation and to upgrade automation suites,tools etc..

**If developer says the defect raised is not a defect, what do you do? or Defect can be seen in QA machine not on Developer machine, how do you handle this situation?**

* Check the requirement functionality, to make sure your test case is correct
* Analyse the root causes of the bug
* Take the help of your senior(Manager/Lead) to reproduce the bug in a better way
* Provide the snapshots, log files and system information
* If the developer is sitting in your office just show the bug how it is reproducible
* Reproduce the bug on another machine
* Include the Product owner/Business owner in the email thread related to the bug.

**High Severity bug in your project**

While I’m testing student profiling module, the application righly get the student details and saved it in database but retrieving the same data, through my test scripts I found that ZIP CODE and PHONE NUMBER are swapped. Since, both are number, so data types mismatch error are never thrown. Maybe it mistake of developer logic or SQL query.

### **Requirement Traceability Matrix**

* document that maps and traces user requirement with test cases.
* all test cases are covered so that no functionality should miss while doing Software testing.

**Continuous Testing**

* it's a methodology
* process of testing **early**, testing **often**, test **everywhere**, and **automate**.
* focuses on achieving continuous quality & improvement at every step of the Continuous Delivery Process.