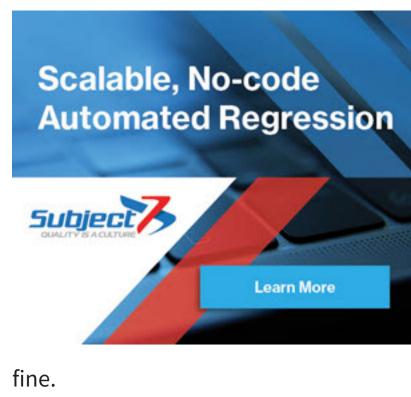
What is Regression Testing? Definition, Test Cases (Example)



What is Regression Testing?

REGRESSION TESTING is defined as a type of software testing to confirm that a recent program or code change has not adversely affected existing features.

Big Data ✓

Let coders code

and testers test.

Automated

Regression.

Subjec:

Testing

Tutorials

Basis Path Testing

Performance Testing

Non Functional Testing

Regression Testing

Test Formality

No-code

Regression Testing is nothing but a full or partial selection of already executed test cases which are re-executed to ensure existing functionalities work

This testing is done to make sure that new code changes should not have side effects on the

existing functionalities. It ensures that the old code still works once the latest code changes are done. In this tutorial, we will learn

• Need of Regression Testing

- How to do Regression Testing
- Selecting test cases for regression testing
- Regression Testing Tools • Regression Testing and Configuration Management
- Difference between Re-Testing and Regression Testing • Challenges in Regression Testing
- Practical Application of Regression Testing Example with a Video
- **Need of Regression Testing**
- The **Need of Regression Testing** mainly arises whenever there is requirement to change

application or not. Moreover, regression testing is needed, when a new feature is added to the software application and for defect fixing as well as performance issue fixing.

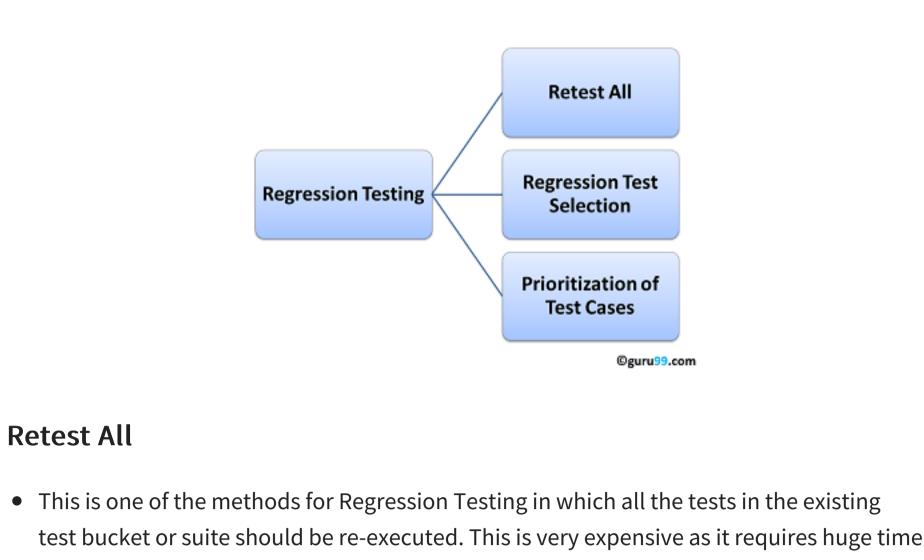
How to do Regression Testing In order to do Regression Testing process, we need to first debug the code to identify the bugs. Once the bugs are identified, required changes are made to fix it, then the regression

the code and we need to test whether the modified code affects the other part of software

testing is done by selecting relevant test cases from the test suite that covers both modified and affected parts of the code.

Software maintenance is an activity which includes enhancements, error corrections, optimization and deletion of existing features. These modifications may cause the system to work incorrectly. Therefore, Regression Testing becomes necessary. Regression Testing can be carried out using the following techniques:

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Regression Test Selection

cycles.

and resources.

Regression Test Selection is a technique in which some selected test cases from test suite are executed to test whether the modified code affects the software application or not. Test cases are categorized into two parts, reusable test cases which can be used in further regression cycles and obsolete test cases which can not be used in succeeding

functionalities. Selection of test cases based on priority will greatly reduce the regression test suite.

selecting the following test cases -

Test cases which have frequent defects

Prioritization of Test Cases

Selecting test cases for regression testing It was found from industry data that a good number of the defects reported by customers were due to last minute bug fixes creating side effects and hence selecting the Test Case for regression testing is an art and not that easy. Effective Regression Tests can be done by

• Prioritize the test cases depending on business impact, critical & frequently used

• Test cases of Functionalities which has undergone more and recent changes All Integration Test Cases • All Complex Test Cases • Boundary value test cases

Automation of regression test cases is the smart choice in such cases. The extent of

Following are the most important tools used for both functional and regression testing in

A sample of Failure test cases

• Functionalities which are more visible to the users

• Test cases which verify core features of the product

If your software undergoes frequent changes, regression testing costs will escalate. In such cases, Manual execution of test cases increases test execution time as well as costs.

software engineering:

be allowed

automation depends on the number of test cases that remain re-usable for successive regression cycles.

be used for browser-based regression testing.

A sample of Successful test cases

Regression Testing Tools

Quick Test Professional (QTP): HP Quick Test Professional is automated software designed to automate functional and regression test cases. It uses VBScript language for automation. It is a Data-driven, Keyword based tool. Rational Functional Tester (RFT): IBM's rational functional tester is a Java tool used to

automate the test cases of software applications. This is primarily used for automating

Regression Testing and Configuration Management

regression test cases and it also integrates with Rational Test Manager.

Selenium: This is an open source tool used for automating web applications. Selenium can

Configuration Management during Regression Testing becomes imperative in Agile Environments where a code is being continuously modified. To ensure effective regression tests, observe the following:

• No changes must be allowed to code, during the regression test phase. Regression test code must be kept immune to developer changes. • The database used for regression testing must be isolated. No database changes must

• Code being regression tested should be under a configuration management tool

Regression testing means testing your software application when it undergoes a code change to ensure that the new code has not affected other parts of the software.

Challenges in Regression Testing:

Large Test Suites

Regression **Testing**

• With successive regression runs, test suites become fairly large. Due to time and budget

Practical Application of Regression Testing Example with a Video What is Regression Testing? Software Testing T Partilhar

Click here if the video is not accessible **Conclusion:**

Software Testing

Agile/Scrum

Methodology

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SDLC

method that checks the Agile Automation Testing Fuzzing is a software testing server side or... Agile Automation Testing in technique of putting invalid Read more » software development is an or random... approach of using... Read more »

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Backend Testing is a testing



Difference between Re-Testing and Regression Testing: Retesting means testing the functionality or bug again to ensure the code is fixed. If it is not fixed, Defect needs to be re-opened. If fixed, Defect is closed. Also, Check out the complete list of differences over here.

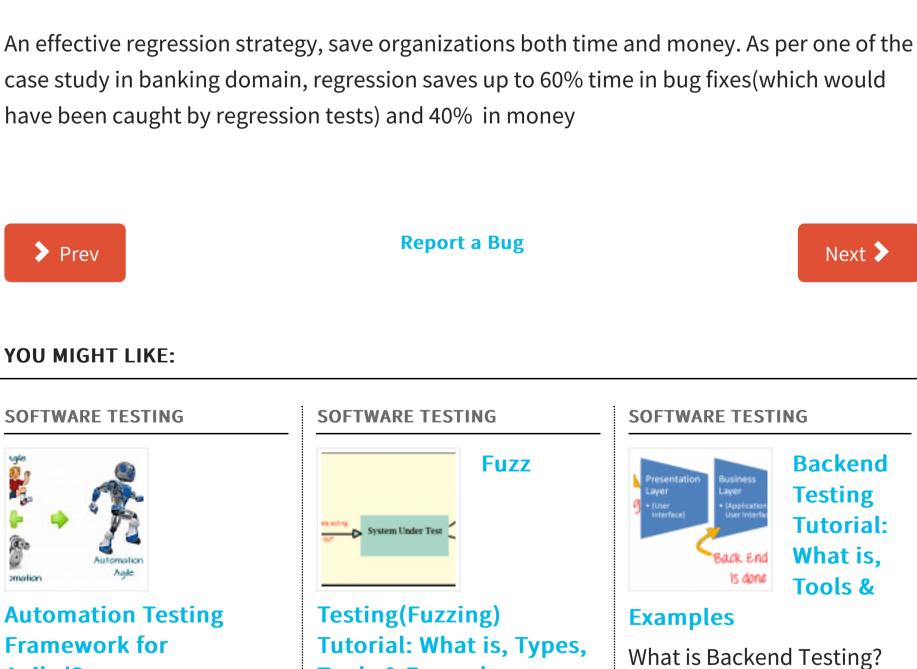
Limited Resource

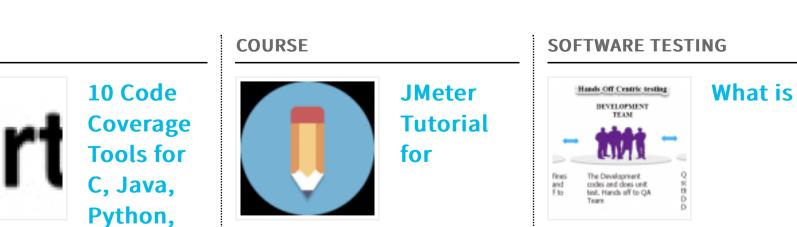
• Minimizing the test suite while achieving maximum Test coverage remains a challenge • Determination of frequency of Regression Tests, i.e., after every modification or every build update or after a bunch of bug fixes, is a challenge.

Following are the major testing problems for doing regression testing:

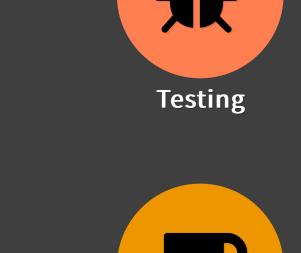
constraints, the entire regression test suite cannot be executed

egression Testing?





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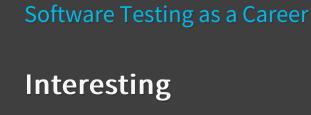






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