



# REGRESSION TESTING



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# Regression Testing Overview

- Regression testing is a crucial part of the software testing process.
- It involves retesting previously tested functionalities to ensure that recent changes or bug fixes have not introduced new defects or caused any regression.
- The goal of regression testing is to ensure that the software continues to function as expected after modifications or updates.



# Importance of Regression Testing

- Detecting Regression Issues:
  - Regression testing helps identify any unintended side effects or issues introduced by changes in the software.
  - It ensures that the fixes or enhancements do not adversely impact existing functionalities.
- Ensuring Software Stability:
  - By conducting regression testing, the stability of the software is maintained.
  - It helps prevent the reintroduction of previously resolved defects and ensures that the software remains reliable.



# Regression Testing Techniques

- **Retest All:**
  - In this approach, all previously executed test cases are retested.
  - It provides maximum coverage but can be time-consuming and resource-intensive.
- **Regression Test Selection:**
  - This technique selects a subset of test cases from the existing test suite based on specific criteria.
  - Criteria may include areas impacted by changes or high-risk functionalities.
- **Test Case Prioritization:**
  - Test cases are prioritized based on their importance and potential impact.
  - Higher priority test cases, critical functionalities, or frequently used features are given more attention during regression testing.
- **Automated Regression Testing:**
  - Automation tools and scripts are used to execute regression tests efficiently.
  - It helps save time and effort, especially when regression testing needs to be performed frequently or on a large scale.

# Best Practices for Regression Testing

- **Maintain a Comprehensive Test Suite:**
  - A well-maintained test suite ensures adequate coverage of key functionalities.
  - Regularly update and review the test suite to include new test cases and remove redundant ones.
- **Monitor Test Environment:**
  - Ensure that the test environment accurately represents the production environment.
  - Consistently monitor and update the test environment to avoid any inconsistencies.
- **Collaboration and Communication:**
  - Foster effective collaboration between development and testing teams to ensure smooth regression testing.
  - Maintain open communication channels to report and address any issues or concerns promptly.





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**See you in Next Video**

