



*“Management is the crux of environment you work in ”*





# Regression Testing in Agile and Importance of Documentation

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# Agenda

- 1 Regression Testing in Agile
- 2 Categories of Regression Testing
- 3 Documentation in Agile
- 4 Optimization of Regression Testing
- 5 Challenges
- 6 Goals of Regression Testing



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# Regression Testing in Agile



# Regression and Agile

- ◇ Relevance of Regression Testing
  - Procedures for effective execution
    - Identifying testcases to be executed
    - Identifying improvements
    - Identify the time of execution
    - Outline what needs to be automated
    - Analyse the outcome





# Categories of Regression Testing

## **End to End Testing**

Test incorporates end-to-end testing of 'all' the core functionalities of the product

## **Sprint Level Testing**

Is focused on testing the new functionalities that are implemented since the last release.





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# Optimization of Regression Cycle



# How to Optimize?

- ◇ Regression test selection
- ◇ Regression test tracking mechanism
- ◇ Monitoring changes
- ◇ Periodic clean-up
- ◇ Regular screening
- ◇ Metrics analysis







# Reduce, Recycle, Reuse and Recover

## Reduce

- Identify what needs to be tested
- Identify and remove obsoleted test cases

## Reuse

- Use the test cases that are created for the previous sprints.

## Recycle

- Test cases by monitoring executions to gather test inputs that can be used for retesting

## Recover

- Generate test cases from older obsolete test cases





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# Documentation





# Documentation In Agile

**Test Cases**

**Test Scenarios**

**Sprints/Jiras/  
Story  
Boarding**



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# Challenges



# CHALLENGES FACED IN REGRESSION TESTING



■ Increase time and effort



■ Lack of concentration



■ Rerunning of testcases



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# Goals of Regression Testing





# WHAT ARE THE GOALS?

- To ensure no ripple has introduced
- Ensure that the quality is not suffered
- Re- examine the previously working functionality





# Thanks!

## Any questions?

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