# **DOJO – Unit Testing in Java**

## **Background**

In a banking environment one tend to process card transactions. These transactions may have several properties such as amount, PIN and card number. The amount and card number is usually stored as a String because not everyone is running 64bit systems. The card number is sometimes located inside the Track 2 data field (together with additional data such as expiry date and applicable usages for this type of card).

All of this data should be validated and processed in the correct sequence (i.e. you do not want to reserve money before validating the PIN).

## **Reading to be done:**

Unit Testing - <https://zeroturnaround.com/rebellabs/dont-test-blindly-the-right-methods-for-unit-testing-your-java-apps/>

Mocking - <http://zeroturnaround.com/rebellabs/how-to-mock-up-your-unit-test-environment-to-create-alternate-realities/>

TDD - <https://zeroturnaround.com/rebellabs/if-and-when-you-should-use-test-driven-development/>

## **Cheat sheets:**

Junit - <http://dpj2eenotes.blogspot.co.za/2013/04/basic-junit-4-annotations-cheat-sheet.html>

Mockito - <https://casadelkrogh.dk/code/2014/10/14/mockito-cheat-sheet/>

Spring Integration Testing - <http://www.techferry.com/articles/spring-jUnit-annotations.html>