**Course: Software Testing**

**Lab. Report #2 – Automated Requirements-Based API Unit Testing using JUnit**

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| --- | --- |
| Group #: |  |
| Student Names: |  |
|  |

# Unit testing plan

## List of the methods under test

## The chosen black-box test technique(s) and why you have decides to choose them

## How the team plans to organize their JUnit test suites (based on Appendix C in lab doc)

# Designing the unit test-cases using black-box test-case design techniques

Note: You should not include any test code in this section, but only the design of the test cases using the above methods, before coding them.

# Output of test suite execution: Include a screenshot of test suite execution in JUnit showing their Pass/Fail/Error status (showing the names of test methods)

# Based on the list of failed test cases (failures) in the previous section above, discuss the possible faults leading to those failures

Hint: Use the chain of software dependability threats: errors, fault, failure, as learned in the lectures

# How the team work/effort was divided and managed

## How the team work/effort of the lab was managed and divided

* You can say for example discuss which parts of the lab-work (e.g., classes under test, etc.) was done by who…
* And also discuss the meetings that you had to plan and run the lab work
* Etc.

## Writing the lab report

Fill up the following table to specify who wrote what part of the lab document:

|  |  |
| --- | --- |
| **Lab-report section** | **Written by** |
| 1- Introduction | Student A |
| 2-.. |  |
| … |  |

## Lessons learned from your teamwork in this lab

Only include lessons learned from **your teamwork in this section**. **“Technical”** lessons learned **shall be discussed in another section below.**

# Difficulties/ challenges encountered, overcoming them, and lessons learned

## Difficulties/ challenges encountered

Text…

## How did you overcome the above difficulties/ challenges?

Text…

## “Technical” Lessons learned

Only include **“technical”** lessons learned from **in this section**. Lessons learned **your teamwork shall be discussed in another section above.**

# Comments/feedback on the lab and lab document itself

This section has the following sub-sections.

## Did you find the lab a useful learning experience? How it helped you learn the new testing topics

Text…

## Was the lab document easy to follow?

Text…

## About time budget? (Was there too much/too little time for this lab?)

Text…

## Please provide your comments on how to improve the lab work and lab document

Text…