

CSCI 3901

Software Development Concepts



DALHOUSIE
UNIVERSITY

Faculty of Computer Science

Lab 6: “Managing Software”

Kishan Kahodariya

B00864907

Dhruv Patel

B00868931

Objective

Working Independently or in group of two students, using Junit and Makefiles write test script for newest release of HfxDonairExpress online ordering system to improve their build automation and to include your test cases in their existing testing setup.

Part 02 – Understanding Makefiles

Which file(s) are included in the SRC variable?

- Food.java
- HfxDonairExpress.java
- Menu.java

What file(s) does the all target depend on?

- hfxdonairexpress.jar

What is the command used to make the hfxdonairexpress.jar?

- make hfxdonairexpress.jar

What does the test target do? You may want to try running the command make test to see.

- **test target** tests all files in the folder and creates .class files for all java file i.e. Food.java, HfxDonairExpress.java and Menu.java along with hfxdonairexpress.jar file.

Questions

Why is it important to have a portable, reproducible build system that isn't tied to a particular IDE?

- We may not know which IDE a person uses. He may or may not use the same IDE as we are currently using. Also, it might happen if the IDE is discontinued and your ability to compile your code might be that of the previous IDE and you will need to re-do entire build system in this case. Implementing build system via makefiles can save you from this trouble.

How often should you run a class' test suite when developing a software system? Explain.

- Test suites should be run after any code changes are done to any class to ensure proper functioning without any errors. There can be no harm in running test suites again as this can confirm that your code logic is correct.

Can you see any reason to split test cases up into separate files, or should you just include all of your test cases for every class in the same file?

- Normally you would include all your test cases for every class in the same file. It is rare to split test cases into separate files and may be required in special cases where you want specific case for a particular/special scenario.