

## Practical session 11

This work should be completed before the next lecture.

### Task 1: Design patterns in your customer application

Copy your NetBeans project from Task 3 of Week 10.

Refactor your code so that the following design patterns are used:

- Singleton
- Factory
- Builder
- Null Object
- Table Data Gateway
- Command

You can introduce the patterns in any order you choose.

#### Portfolio requirements:

- The NetBeans project for this completed task