

Exercises, SDJ1

Exercise: A Config file

Imagine that you have an application with a file to read at startup, a file to use to synchronize with the model every time you add or remove an element, a file to use for backup, and a logfile to log all use of the application. These files could be text files, binary files or xml files. In order to minimize hardcoded values, your program reads a config file, to get the filenames and types.

The config file could look something like the following:

```
<config>
  <file>
    <filename>gradelist0.xml</filename>
    <purpose>startup</purpose>
    <type>xml</type>
  </file>
  <file>
    <filename>gradelist1.xml</filename>
    <purpose>synchronize</purpose>
    <type>xml</type>
  </file>
  <file>
    <filename>backup.xml</filename>
    <purpose>backup</purpose>
    <type>xml</type>
  </file>
  <file>
    <filename>gradelistLog.txt</filename>
    <purpose>log</purpose>
    <type>text</type>
  </file>
</config>
```

Make a program to read the config file. It is optional if you 1) uses a DOM parser to read the config-file information as strings or 2) create a model for it first and uses the MyXmlConverter to read the file (in this case, the model may be a class containing a file with filename, type and purpose, and a file list class with an ArrayList of files).

Note you do not need the full application, just a class with a main method (and possible a model for the file and file list) to show that you can read the file and print out the resulting texts without tags.