

Unit 1 – Compulsory assignment

Using the information of the Newspapers database that you created last unit, build the following Java application:

The database is corrupted, and the company is going to use a file system to store the information until the database is recovered:

- The information will be stored in text files: newspapers.txt, articles.txt, articles-type.txt
- The application should have the following options:
 - Show all newspapers
 - Show articles by type
 - Append a new article: Make sure that the newspaper and the article-type exist
 - Delete a newspaper: If it has any article, ask the user, and if so, delete articles before deleting newspaper
- Use a constructor(String fileLine) for the model classes to convert the line into an object, and a toStringTextFile() method to do the opposite.

```
□public class Newspaper {
7
         private int id;
8
         private String nombre;
         private double precio;
10
         private String director;
11
12
         public Newspaper (String linea) {
13
             String[] charArray = linea.split(";");
14
             this.id = Integer.parseInt(charArray[0]);
15
             this.nombre = charArray[1];
             this.precio = Double.parseDouble(charArray[2]);
16
17
             this.director = charArray[3];
18
19
20
         public String toStringTextFile() {
             return id + ";" + nombre + ";" + precio + ";" + director;
21
22
```

- The file paths are stored into a Properties file.
- The user's name and password needed to access the files are stored into a Yaml file. The application has to verify the credentials of the user before loading the main scene.

Use java.NIO library. Use singleton patterns for the Properties and Yaml files. Use a layered architecture.

Example of Newspaper's file:

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