Comments

1. The LogMessage method should have the camel case style, that is the recommended name would be logMessage.

- 2. The constuctor receives many parameters, which can be cumbersome at the time of invoking the method or to modify it. It is recommended to use a DTO in its place. Variables should not be static.
- 3. The 'initialized' variable is not being used.

```
private static boolean logToDatabase;

private boolean initialized;

private static Map dbParams;

private static Logger logger;

public JobLogger (boolean logToFileParam, boolean logToConsoleParam, boolean logToDatabaseParam, boolean logMessageParam, boolean logWarningParam, boolean logErrorParam, Map dbParamsMap) {
```

- 4. Objects are created to perform database and file operations without having validated that they have been required, so they can create unnecessary, wasting memory.
- 5. The connection to the database is not closed.

6. The errors management is not well defined. Specifically, when the file is read, when the connection is made and when the query was excecuted. It is recommended define a throws to each them.

7. The sentence "messageText.trim();" has no purpose. You must check the following lines related to length and value validation null.

8. The variable 'int t;' used to define the type of the message, is not mnemonic. The use of an ENUM is recommended.

```
int t = 0;
if (message && logMessage) {
    t = 1;
}
if (error && logError) {
    t = 2;
}
if (warning && logWarning) {
    t = 3;
}
```

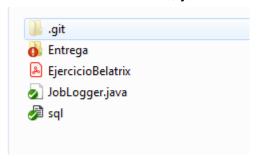
9. In the LogMessage method, you can omit the boolean type parameters, since that the constructor has already defined three variables that can be used to the same validations.

10. It is not necessary to send a HashMap parameter, it can have values by default loaded by a properties file, for example.

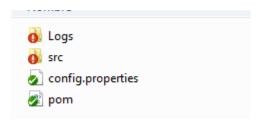
Repositorio

Se describe a continuacion el contenido del repositorio

En la raiz se encontrara, el archivo **sql.sql**, compatible con mysql, para crear una base de datos, y una tabla, usados para registrar la informacion en la base de datos. Tambien se encontrara este archivo PDF, y el archivo JobLogger.java, con version original del codigo.

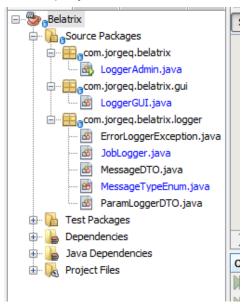


En la carpeta 'Entrega\Belatrix' ademas del codigo, se encuentra una carpeta 'Logs' en donde se guardaran los archivos Log, y un archivo 'config.properties' para registrar la conexión a la base de datos, y la ubicación de los archivos log.



Aplicación

Es un proyecto en maven:



La GUI es una consola para el registro de la informacion según los datos suministrados por el usuario: mensaje, tipo de mensaje y tipos de mensajes permitidos.

```
Enter Message to log:
Ejercicio belatrix
 Message is: Ejercicio belatrix
 Selected the message type:
 1. Warning
 2. Message
 3. Error
 You selected: 2
 Selected one or more types messages to Log
 1. Message
 Error
 3. Warning
 Type any character to stop
 ene 15, 2020 8:50:50 AM com.jorgeq.belatrix.logger.JobLogger logMessage
 INFORMACIÓN: Ejercicio belatrix
 ene 15, 2020 8:50:50 AM com.jorgeq.belatrix.logger.JobLogger logMessage
 INFORMACIÓN: Ejercicio belatrix
 ene 15, 2020 8:50:50 AM com.jorgeq.belatrix.logger.JobLogger logMessage
· INFORMACIÓN: Ejercicio belatrix
```

En el metodo 'main' se debe configurar en donde se va a guardar el log:

```
public static void main(String args[]) {
   LoggerGUI logGUI = new LoggerGUI();
   logGUI.showConsole();

   ParamLoggerDTO parametros = logGUI.getParams();
   parametros.setLogToFileParam(true);
   parametros.setLogToConsoleParam(true);
   parametros.setLogToDatabaseParam(true);
   JobLogger jl = new JobLogger(parametros);

   MessageDTO messageDTO = new MessageDTO();
   messageDTO.setMessage(logGUI.getMessage());
   messageDTO.setTipoMessage(logGUI.getMessageType());
```

El log sera similar a la siguiente imagen:

Se consulta la informacion en la base de datos:

```
mysql> show databases;
   Database
   belatrix
  employees
information_schema
  mysql
performance_schema
prueba
   ริงร
  rows in set (0.00 sec)
mysql> use belatrix;
Database changed
mysql> show tables;
| Tables_in_belatrix
l log_values
1 row in set (0.00 sec)
mysql> select * from log_values;
| id | message
                                                  typemessage | reg_date
       | Mensaje Prueba PARA IRME
| Ejercicio Belatrix
| Mensaje tipo error
                                                  MESSAGE
MESSAGE
ERROR
                                                                        2020-01-14 23:34:00
2020-01-15 14:06:50
2020-01-15 14:10:11
    1
2
3
3 rows in set (0.00 sec)
mysq1>
```