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Project: jEdit

Change Number: *[1,4]*

Date: *11/02/2019*

**Add Timestamps to Log**

1. **Change Request*:***

Add timestamps to the activity log. Displays the timestamp as yyyy/MM/dd/HH/mm/ss.

1. **Concept Location:**

**Table 1. The list of all the classes visited during concept location.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **File name** | **Tool used** | **Located?** | **Comments** |
| 1 | Log.java | “Find in Files” (Ctrl-F) | No | Tried using “Find in Files” to search for logs. I couldn’t find the file, so I ended up just searching through the where the activity log was enable in the JEdit program. It was located under utilities when running so I searched in the util directory for the activity logs. |

1. **Impact Analysis:**

**Table 2. The list of all the classes visited during impact analysis.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **Class name** | **Tool used** | **Impacted?** | **Comments** |
| 1 | \_log | “Find in Files” (Ctrl-F) | Yes | I found where the log outputs were by using “Find in Files” it located where the outputs of the activity logs. Added in timestamp in the \_log method. |

1. **Learning process:** *Include a partial UML* ***class diagram.*** *The class diagram must contain all the classes that you visited and all the relations (dependencies) between the classes that you understood. (see Figure 1). Mark the classes that were changed with red text as in the example.*

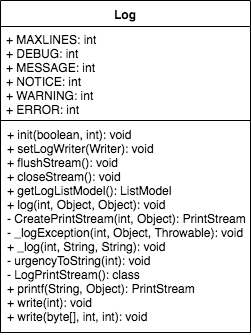
****

Figure . UML diagram of changes made

1. **Description of the implementation:**

Made changes to Log.java file in line 358 to 359 where the timestamp is formatted and outputted in the activity logs. It displays the year, month, day, and time. Imported java.text.\* to utilize the SimpleDateFormat method. The line of code is in the same file Log.java on line 29.

1. **Sources:**

<https://stackoverflow.com/questions/23068676/how-to-get-current-timestamp-in-string-format-in-java-yyyy-mm-dd-hh-mm-ss>

1. **Highlighted Source Code:**

**<Log.java>**

import java.io.\*;  
import java.util.\*;  
import javax.swing.\*;  
import javax.swing.event.\*;  
import java.text.\*;

…

//{{{ \_log() method  
private static void \_log(int urgency, String source, String message)  
{  
 // added timestamp here for change request 4  
 String timeStamp = new SimpleDateFormat("yyyy.MM.dd.HH.mm.ss").format(new Date());  
 String fullMessage = '[' + timeStamp + "]" +  
 '[' + *urgencyToString*(urgency) + "] " + source  
 + ": " + message; // added timestamp display