

These are the steps to create the Aspect Files for the HRM software system using the Forensic-Ready Logger approach:

1. Install in your local computer MySQL Workbench and MySQL Community Server version 8.0.12.
2. Additionally, install the Eclipse IDE for Java Developers Version: 2018-09 (4.9.0) and the JDK Java version: 13.0.1
3. In our Github repository, go to the branch: Projects/FRL/Incident_Model_Version/Database/ and download the database dump file: ForensicReadyLogger_Database_Dump.sql
4. In MySQL Workbench, open the database dump file as a SQL Script and then execute the script.
5. In our Github repository, go to the branch: Projects/FRL/Incident_Model_Version/ForensicReadyLogger/ and download all the files present there.
6. In your local computer, go to the Eclipse Workspace folder and create a folder called ForensicReadyLogger and copy all the files downloaded in the step 4.
7. In our Github repository, go to the branch: Projects/HRM/Original_Version/HRMApplication/ and download all the files present there.
8. In our Github repository, go to the branch: Projects/HRM/Original_Version/JAR/ and download the HRMApplication.jar file.
9. In your local computer, create two folders named: Input and Output.
10. In the Input folder, copy all the files that were downloaded in the step 6. Also copy the JAR file downloaded in the step 7.
11. In Eclipse, open the ForensicReadyLogger project that is located in the Eclipse Workspace Folder. Then make right click on the project and add as an External Library the HRMApplication.jar File.
12. In Eclipse, go to the resources/frlconfig.properties file and update the projectInputDir and projectOutputDir variables with the Input and Output local paths in your computer accordingly.

13. In the same `frlconfig.properties` file, update the `propertiesFilePath` variable with the current path in your computer where is located the `frlconfig.properties` file. Also, update the same path present in the `frl.configuration` package and then the `FRLConfiguration` class. Inside this class look for the `propertiesFilePath` variable.

14. In Eclipse, look for the `frl.main` package and then the `ForensicReadyLogger.java` class and run this class using the "Java Application" option.

15. In the Console screen, the Forensic-Ready Logger (FRL) will start running and will display the message:

Welcome to the Forensic Ready Logger: Tue Aug 25 19:00:17 IST 2020

16. Then, in the Console screen, the FRL will displayed several text messages related to the internal steps that are required towards creating the Aspect Files.

17. Wait until the FRL finishes executing all these internal steps. When the FRL finishes with such steps, it will display the following text message:

Goodbye from the Forensic Ready Logger: Tue Aug 25 19:01:45 IST 2020

18. Go to the Output Folder in your local computer and verify that the following aspect files has been generated:

- `FrlDatabaseMethods.aj`
- `FrlStart.aj`