Description of assignment planning 3

For this assignment, we added the following classes:

* **Gui\_Data**- This class consists of the code that builds and designs the user interface. The interface contains: the folder that the user wishes to work by and insert into it input and output files. In addition, the interface enables filtering of the parameters: date, location by radius and phone Id.

The user can also get a router location by MAC address Or alternatively, get the user location by the number of pairs of Mac address and Signa.

* **SetDataBase**- This class contains functions that are responsible for manipulating the data structure. For example: deleting the entire data structure.
* **FilterObject**- This class contains all the variables we want to filter. It implements the interface in a serializable manner. Within the Gui\_Data class

We created an object from this class and so we were able to update the test file in the new filter.

* **FilteredFileObjectStream**- In this class we create a text file with the data filtered by the user request that comes directly from the GUI class. This class accepts the object Type FilterObject class, and built in Gui\_Data class.
* **Modifications**- This class is responsible for making changes to the folder and the files contained in it. If the user made a change within the files or deleted a file from the folder, we will verify it. This department was written in order to be able to execute the data structure while updating the data.
* **myRunnable**- This class implements the Java interface. The run function updates the data structure automatically every time a file or folder is modified (this is done by a function from Modifications class.
* **ThreadMain**- This class is responsible for creating a thread to update the data structure while the main thread runs the entire program (the user interface). This class creates an object of type myRunnable class and send it to the new thread we created. At the same time the main thread of the GUI continues to run.