File Explorer

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Programming Language Project for Level two

The idea of project :-

The idea is to build file manager or file explorer application as a simulation can delete ,create and search for files inside folder .It provides a GUI for easy interact with the app

Class Diagram :-

GUI

+folderText: Jlabel
+folderText2: Jlabel
+folderText3: Jlabel
+labelFile11: Jlabel
+labelFile12: Jlabel
+labelFile13: Jlabel
+labelFile21: Jlabel
+labelFile22: Jlabel
+labelFile23: Jlabel
+labelFile31: Jlabel
+labelFile32: Jlabel
+labelFile33: Jlabel
+noteName: Jlabel
+counterEnterFolder:int = 0
+ searchCounter:int = 9
+selectFolderCounter1:int= 0
+ int selectFolderCounter2:int = 0
+selectFolderCounter3:int = 0
+selectFileCounter11:int = 0
+selectFileCounter12 :int = 0
+selectFileCounter13:int = 0
+selectFileCounter21:int = 0
+selectFileCounter22:int = 0
+selectFileCounter23:int = 0
+selectFileCounter31:int = 0
+selectFileCounter32:int = 0
+selectFileCounter33:int = 0
+ filesCounter1:int=0
+ filesCounter2:int=0
+ filesCounter3:int=0

+getFileName():String
+getFolderName():String
+GUI()

Folder

- folderName;

+setFolderName(String):void
+getFolderName():String

File

- FileName;

+fileName(String):void
+getFileName():String

Validation

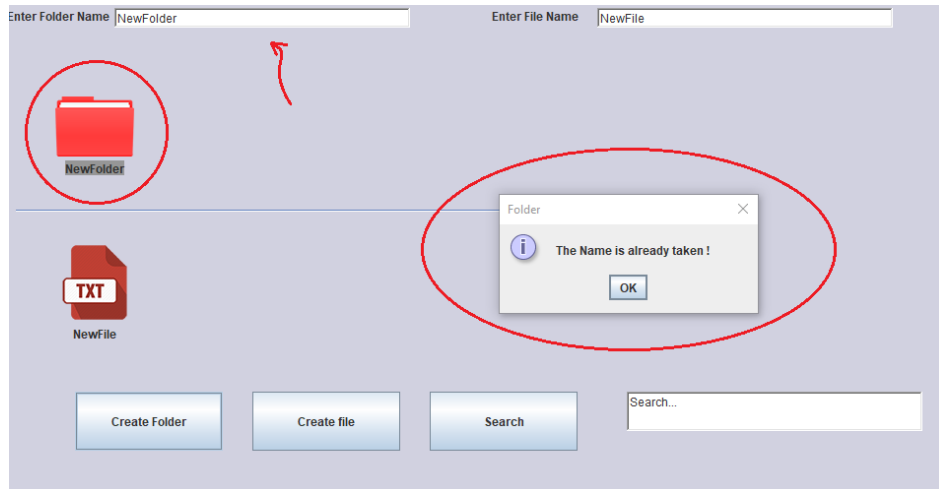+isValidUsername(String) boolean

Main requiremnets functions:

- There is function called create which can creats files or folder with specific name in specific folder
- There is a function called search which search on file with specific name
- There is another functions called delete can remove file or even folder when selected
- There are events in GUI which finish specific methods
- There is a validation method which checks the name of the created file with the other files to make sure that there is no duplicated name and the file or folder didn't begin with symbols Ex:(/ , * , - ,………….etc)
- Lastly, we get a report contains detailed information about components of the folder (number of files , which file is opened)
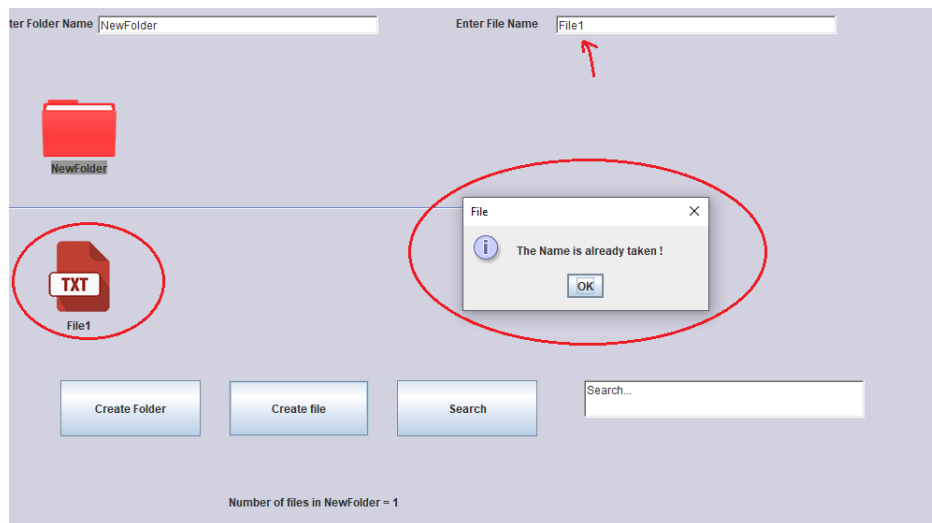
Member tasks:

- Ahmed Gamal : (Validation, Search ,GUI)
- Pola Osama: (File ,GUI)
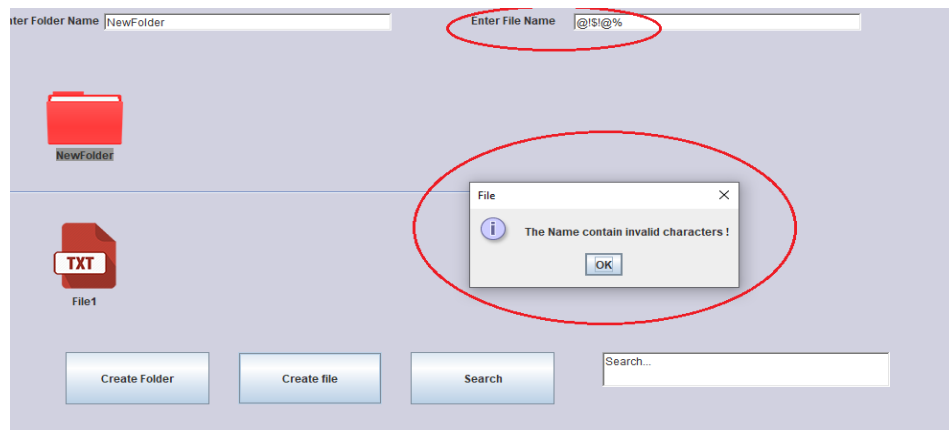- Abdelrahman Montasser : (Folder,GUI)

Test Cases:

1- Here when create folder with same name as the onr that already exisit error message appear

2- Here when create folder with same name as the onr that already exisit error message appear

3- When we enter invalid character in file text filed error message appear

4- Here we show the name of the file opened and the number of files it contains.

5- When search on file that is not exist, error appear .