**FileOptionsScreen**

**package** phase1Project.virtualkey.screens;

**import** java.io.File;

**import** java.io.IOException;

**import** java.nio.file.FileSystems;

**import** java.nio.file.Path;

**import** java.util.ArrayList;

**import** java.util.InputMismatchException;

**import** java.util.Scanner;

**import** phase1Project.virtualkey.entities.Directory;

**public** **class** FileOptionsScreen **implements** Screen{

**private** Directory dir = **new** Directory();

**private** ArrayList<String> options = **new** ArrayList<>();

**public** FileOptionsScreen() {

options.add("1. Add a File");

options.add("2. Delete A File");

options.add("3. Search A File");

options.add("4. Return to Menu");

}

@Override

**public** **void** Show() {

System.***out***.print("\n");

System.***out***.println("File Options Menu");

**for** (String s : options) {

System.***out***.println(s);

}

}

**public** **void** GetUserInput() {

**int** selectedOption;

**while** ((selectedOption = **this**.getOption()) != 4) {

**this**.NavigateOption(selectedOption);

System.***out***.print("\n");

}

}

@Override

**public** **void** NavigateOption(**int** option) {

**switch**(option) {

**case** 1: // Add File

**this**.AddFile();

**this**.Show();

**break**;

**case** 2: // Delete File

**this**.DeleteFile();

**this**.Show();

**break**;

**case** 3: // Search File

**this**.SearchFile();

**this**.Show();

**break**;

**default**:

System.***out***.println("Invalid Option");

**break**;

}

}

//**TODO**: Add functionality to all

// Finished **TODO**

**public** **void** AddFile() {

System.***out***.println("Please Enter the Filename:");

String fileName = **this**.getInputString();

System.***out***.println("You are adding a file named: " + fileName);

System.***out***.print("\n");

**try** {

Path path = FileSystems.*getDefault*().getPath(Directory.***name*** + fileName).toAbsolutePath();

File file = **new** File(dir.getName() + fileName);

**if** (file.createNewFile()) {

System.***out***.println("File created: " + file.getName());

dir.getFiles().add(file);

} **else** {

System.***out***.println("This File Already Exits, please enter different name");

}

}**catch** (IOException e){

System.***out***.println(e);

}

}

**public** **void** DeleteFile() {

System.***out***.println("Please Enter the Filename:");

String fileName = **this**.getInputString();

System.***out***.println("You are deleting a file named: " + fileName);

System.***out***.print("\n");

//**TODO**: Delete file

// Finished **TODO**

Path path = FileSystems.*getDefault*().getPath(Directory.***name*** + fileName).toAbsolutePath();

File file = path.toFile();

**if** (file.delete()) {

System.***out***.println("Deleted File: " + file.getName());

dir.getFiles().remove(file);

} **else** {

System.***out***.println("Failed to delete file:" + fileName + ", file was not found.");

}

}

**public** **void** SearchFile() {

Boolean found = **false**;

System.***out***.println("Please Enter the Filename:");

String fileName = **this**.getInputString();

System.***out***.println("You are searching for a file named: " + fileName);

System.***out***.print("\n");

//**TODO** Fix it so ArrayList obtains files

//Finished **TODO**

ArrayList<File> files = dir.getFiles();

**for**(**int** i = 0; i < files.size(); i++) {

**if**(files.get(i).getName().equals(fileName)) {

System.***out***.println("Found " + fileName + " file");

found = **true**;

}

}

**if** (found == **false**) {

System.***out***.println("File not found");

}

}

**private** String getInputString() {

Scanner in = **new** Scanner(System.***in***);

**return**(in.nextLine());

}

**private** **int** getOption() {

Scanner in = **new** Scanner(System.***in***);

**int** returnOption = 0;

**try** {

returnOption = in.nextInt();

}

**catch** (InputMismatchException ex) {

System.***out***.println("Invalid input");

}

**return** returnOption;

}

}