Name - Chinmay Shukla

Github Account name - chinmayshukla

Email – chinmayshukla2@gmail.com

Simplilearn FSD Phase 1 Final Project (LockedMe.com)

**UserFilesRunner class: - package** UserFiles; **import** java.util.Scanner;

**public class** UserFilesRunner { UserFiles Userfiles;

**public static void** main(String[] args) {

UserFilesRunner userfilesrunner =**new** UserFilesRunner(); userfilesrunner.MainMenu();

}

**public void** MainMenu() { System.***out***.println("Main Menu"); Userfiles = **new** UserFiles(); **this**.Userfiles.createDirectory();

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

**int** mainSelection;

System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*SIMPLILEARN\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*FSD PHASE1 PROJECT\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Bhanu Prasad\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

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

Order");

**do** {

System.***out***.println("Choose from the below options"); System.***out***.println("1.Display the File Names in Ascending

System.***out***.println("2.Display User Interface Menu"); System.***out***.println("3.Exit");

mainSelection = input.nextInt();

**switch**(mainSelection) {

**case** 1:

Userfiles.listFilesinAscendingOrder();

# break;

Application");

**case** 2:

System.***out***.println("Option 2 selected"); userInterfaceMenu();

**break**; **case** 3:

System.***out***.println("Thank You for using our System.*exit*(0);

# break;

**default**:

System.***out***.println("Wrong option");

}

}**while**(mainSelection!=3);

}

**public void** userInterfaceMenu() {

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

**int** selection;

**do** {

System.***out***.println("\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*USER INTERFACE MENU\*\*\*\*\*\*\*\*\*\*\*\*\*\*");

System.***out***.println("Choose from the below options"); System.***out***.println("1.Add a user specified file to the

application"); application");

the application");

System.***out***.println("2.Delete a user specified file from the System.***out***.println("3.Search for a user specified file from System.***out***.println("4.Back to Main Menu");

selection = input.nextInt();

**switch**(selection) {

**case** 1:

**this**.Userfiles.createuserFile(); **break**;

**case** 2:

System.***out***.println("Option 2 Selected");

**this**.Userfiles.deleteuserFile(); **break**;

**case** 3:

System.***out***.println("Option 3 Selected");

**this**.Userfiles.searchFile(); **break**;

**case** 4:

MainMenu();

# default:

System.***out***.println("Wrong Option Selected");

}

}**while**(selection!=4);

}

}

# UserFiles class:-

**package** UserFiles;

**import** java.io.File;

**import** java.io.IOException;

**import** java.nio.file.FileAlreadyExistsException;

**import** java.nio.file.Files;

**import** java.nio.file.NoSuchFileException;

**import** java.nio.file.Path; **import** java.nio.file.Paths; **import** java.util.Arrays; **import** java.util.Collections; **import** java.util.Iterator; **import** java.util.List; **import** java.util.Scanner;

**public class** UserFiles { Path path;

//To get the file Directory

**public void** createDirectory() {

**this**.path = Paths.*get*("./Files/UserFiles");

# try {

Files.*createDirectories*(path); System.***out***.println("Directory created successfully");

} **catch** (IOException e) {

System.***out***.println("Failed to create the directory"

+e.getMessage());

}

}

e.printStackTrace();

**public** Path getDirectoryPath() {

**return this**.path;

}

//Add a user specified file to the application

**public void** createuserFile() {

Scanner sc = **new** Scanner(System.***in***); System.***out***.println("Enter the File Name you want to create");

String filename= sc.next();

Path newfilepath =Paths.*get*(**this**.path + "/" + filename);

exists");

**try** { Files.*createFile*(newfilepath);

System.***out***.println("File Created Successfully");

}

**catch**(FileAlreadyExistsException e) {

System.***out***.println("The file you want to create already

**this**.createuserFile();

}

**catch**(IOException e) {

System.***out***.println("Failed to create File" +e.getMessage());

}

}

//To list all the files added to the directory

**public void** listofFiles() {

String dir = **this**.path.toString();

File[] listOfFiles = **new** File(dir).listFiles();

**for**(File file: listOfFiles) {

**if**(file.isDirectory()) { System.***out***.println(file.getName());

}

**else if**(file.isFile()) { System.***out***.println(file.getName());

}

}

}

// To search a user specified file from the application

**public void** searchFile() {

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

System.***out***.println("Enter the File Name you want to search"); String FiletoSearch = sc.next();

Path path = Paths.*get*(**this**.path + "/" + FiletoSearch);

**if**(Files.*exists*(path)) {

**if**(Files.*isRegularFile*(path)) { System.***out***.println("Files Exists");

}

**if**(Files.*isDirectory*(path)) {

System.***out***.println("File Exists but it is a Directory");

}

}

# else {

}

}

System.***out***.println("File doesnot Exists");

//To delete User specified File from the application

**public void** deleteuserFile() {

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

System.***out***.println("Enter the File Name you want to delete"); String FileToDelete = sc.next();

}

to delete");

**try** {

Files.*delete*(Paths.*get*(**this**.path + "/" + FileToDelete)); System.***out***.println("File Deleted Successfully");

**catch**(NoSuchFileException e) {

System.***out***.println("File doesnot exists!!!Enter new File Name

}

**catch**(IOException e) { e.printStackTrace();

}

}

//To List all the Files in Ascending Order

**public void** listFilesinAscendingOrder() { String dir = **this**.path.toString();

File[] listOfFiles = **new** File(dir).listFiles(); List<File> listofFile = Arrays.*asList*(listOfFiles); Collections.*sort*(listofFile);

Iterator<File> it = listofFile.iterator();

**while**(it.hasNext()) {

System.***out***.println(it.next().getName());

}

}

}