

# 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("*****TEJUS
        M*****");
        System.out.println();

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

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

            mainSelection = input.nextInt();

            switch(mainSelection) {
                case 1:
                    Userfiles.listFilesinAscendingOrder();
                    break;

                case 2:
                    System.out.println("Option 2 selected");
                    userInterfaceMenu();
                    break;

                case 3:
                    System.out.println("Thank You for using our
                    Application");

                    System.exit(0);
            }
        }
    }
}
```

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        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");
        System.out.println("2.Delete a user specified file from the
application");
        System.out.println("3.Search for a user specified file from
the application");
        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);

        try {
            Files.createFile(newfilepath);
            System.out.println("File Created Successfully");
        }
        catch(FileAlreadyExistsException e) {
            System.out.println("The file you want to create already
exists");
            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();

        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
to delete");
        }

        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());
        }
    }
}
```