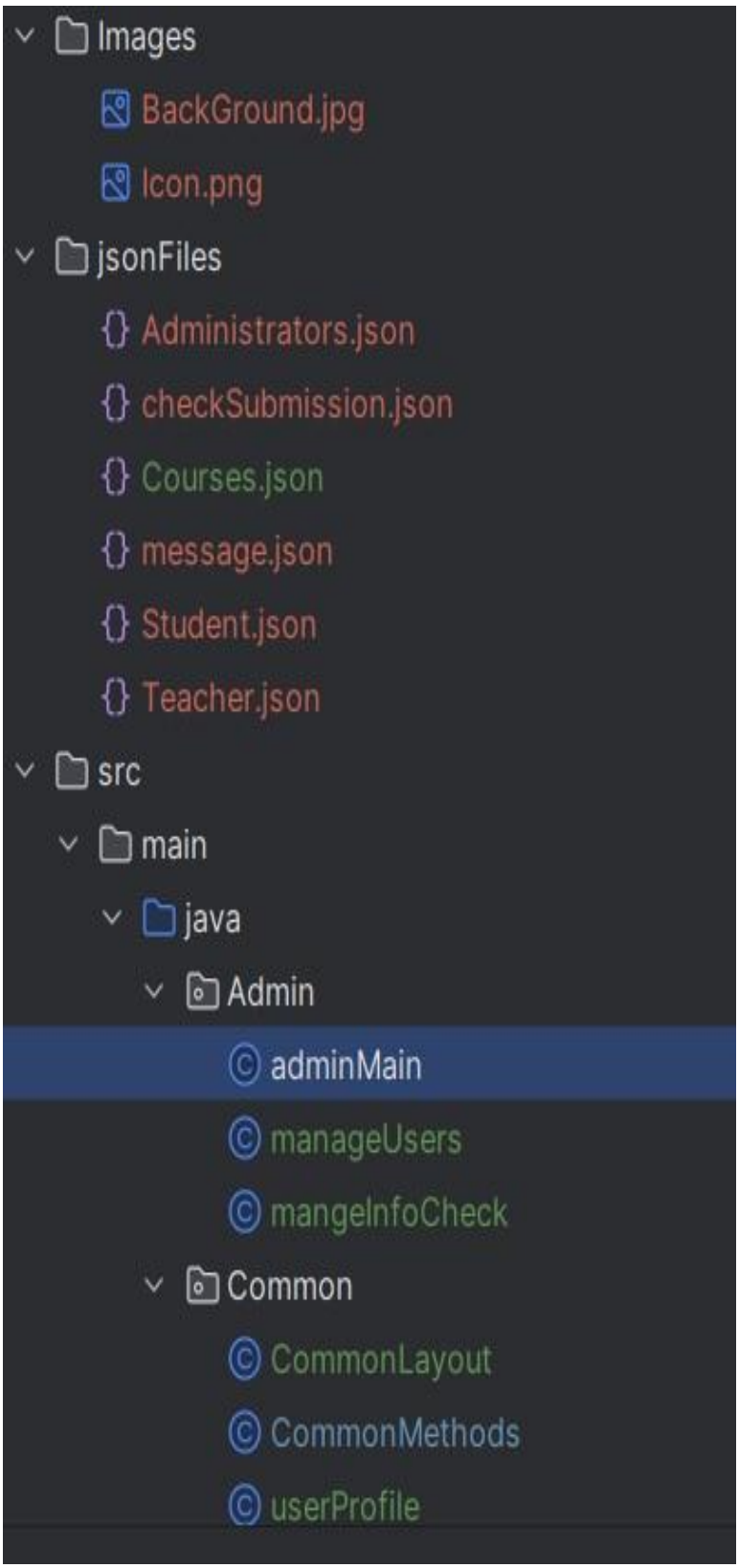
2023

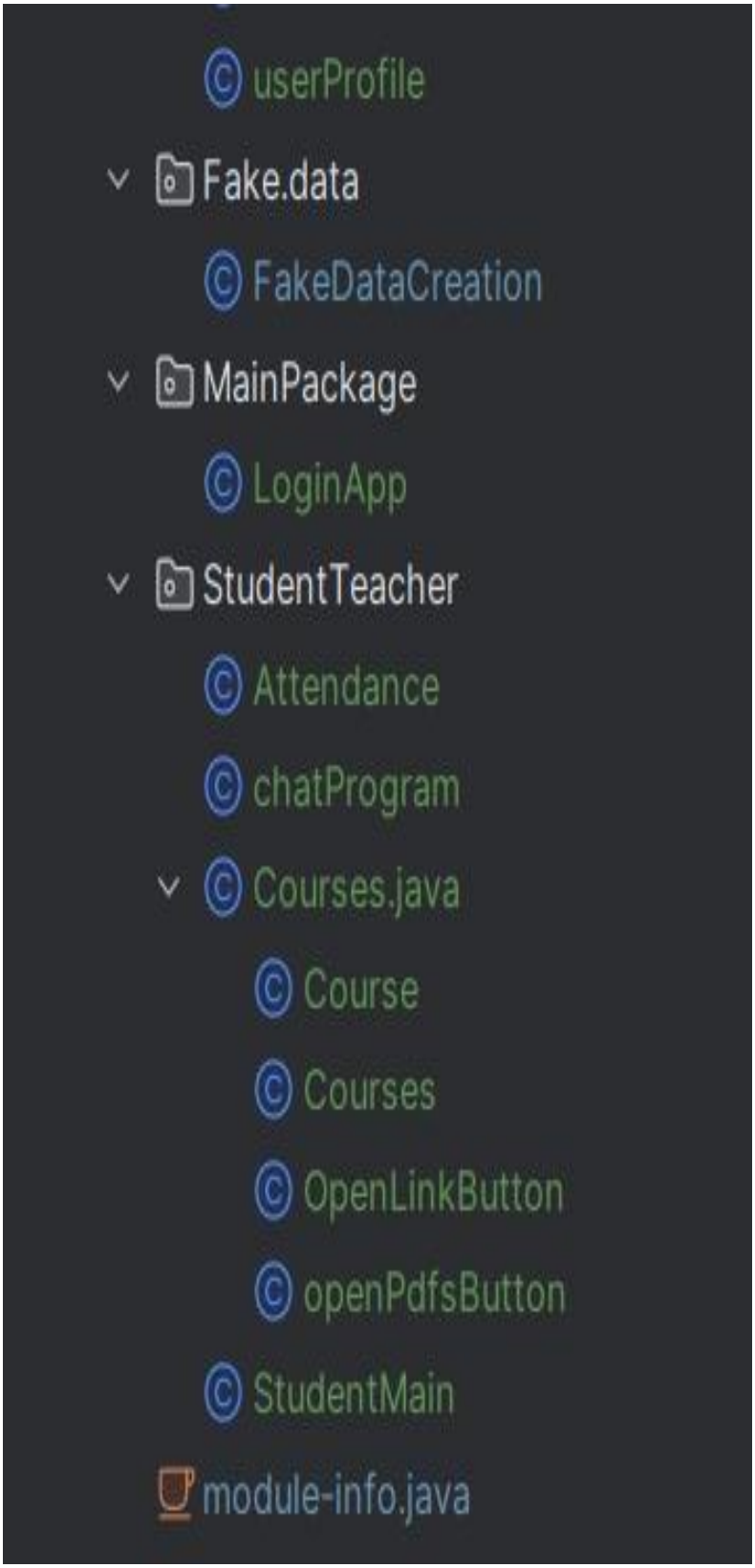
SEIF MOHAMED SEIF

Main Idea

The project's main goal is to develop a system that facilitates the management of the teacher-student relationship. The system will have features for teachers to view their information, chat with students, provide feedback, and manage lectures and assignments.
Students will have access to their information, chat with teachers, view lectures, and participate in discussions.
Administrators will serve as a bridge between teachers and students, managing user accounts, overseeing submissions, and maintaining data integrity.
The system aims to enhance communication and streamline academic processes for a better teacher-student experience.

Imports & Packages





```java
import MainPackage.LoginApp;
import javafx.scene.Scene;
import javafx.stage.Stage;
import javafx.scene.layout.*;
import javafx.scene.control.*;
import org.json.JSONObject;

import static Admin.mangeInfoCheck.managInfoCheckPane;
import static Common.CommonLayout.createButtonStyle;
import static Common.CommonLayout.createVBoxStyle;
import static Common.userProfile.profilePane;
```

```java
package Common;

import javafx.geometry.Insets;
import javafx.geometry.Pos;
import javafx.scene.control.Alert;
import javafx.scene.control.Button;
import javafx.scene.control.TextField;
import javafx.scene.layout.ColumnConstraints;
import javafx.scene.layout.GridPane;
import javafx.scene.layout.HBox;
import javafx.scene.layout.VBox;
```

```java
package Common;

import javafx.scene.text.Font;
import javafx.scene.text.FontWeight;
import javafx.scene.text.Text;
import javafx.scene.layout.*;
import javafx.scene.control.*;
import org.json.JSONObject;

import static Common.CommonLayout.createGridPane;
import static Common.CommonLayout.createText;
```

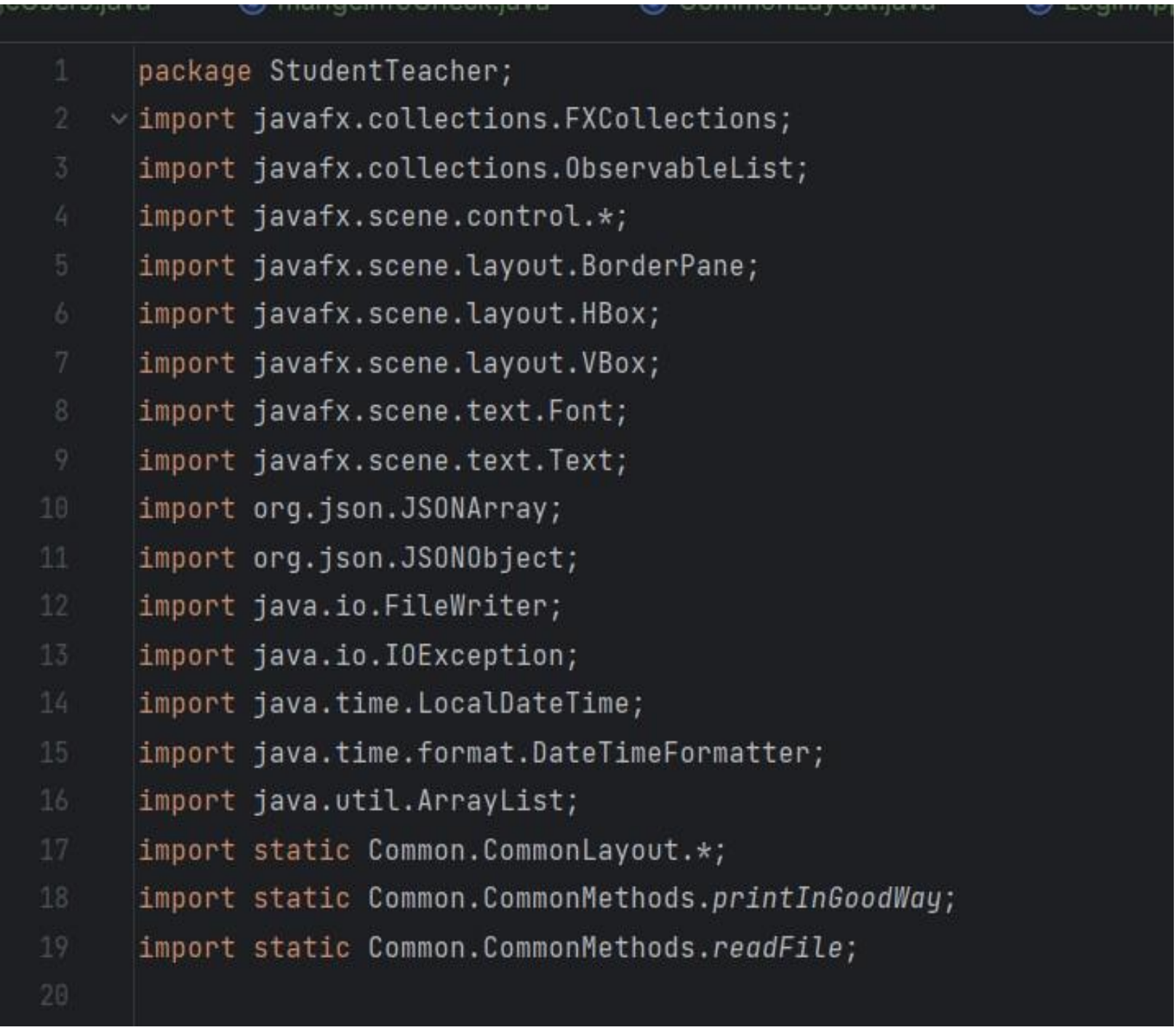
```java
package Common;

import javafx.scene.Scene;
import javafx.stage.Stage;
import org.json.JSONArray;
import org.json.JSONObject;
import org.json.JSONTokener;
import java.io.FileNotFoundException;
import java.io.FileReader;
import java.io.FileWriter;
import java.io.IOException;
```

```java
package Admin;

Minimize
import javafx.geometry.Insets;
import javafx.collections.FXCollections;
import javafx.scene.control.*;
import javafx.scene.layout.*;
import org.json.JSONArray;
import org.json.JSONObject;
import java.io.FileWriter;
import java.io.IOException;
import java.util.Objects;
import static Admin.adminMain.adminInfo;
import static Common.CommonMethods.*;
new *
```

```java
package Admin;

import javafx.collections.FXCollections;
import javafx.collections.ObservableList;
import javafx.geometry.Insets;
import javafx.geometry.Pos;
import javafx.scene.control.Button;
import javafx.scene.control.ListView;
import javafx.scene.layout.BorderPane;
import javafx.scene.layout.HBox;
import org.json.JSONArray;
import org.json.JSONObject;

import static Common.CommonMethods.printInGoodWay;
import static Common.CommonMethods.readFile;

```

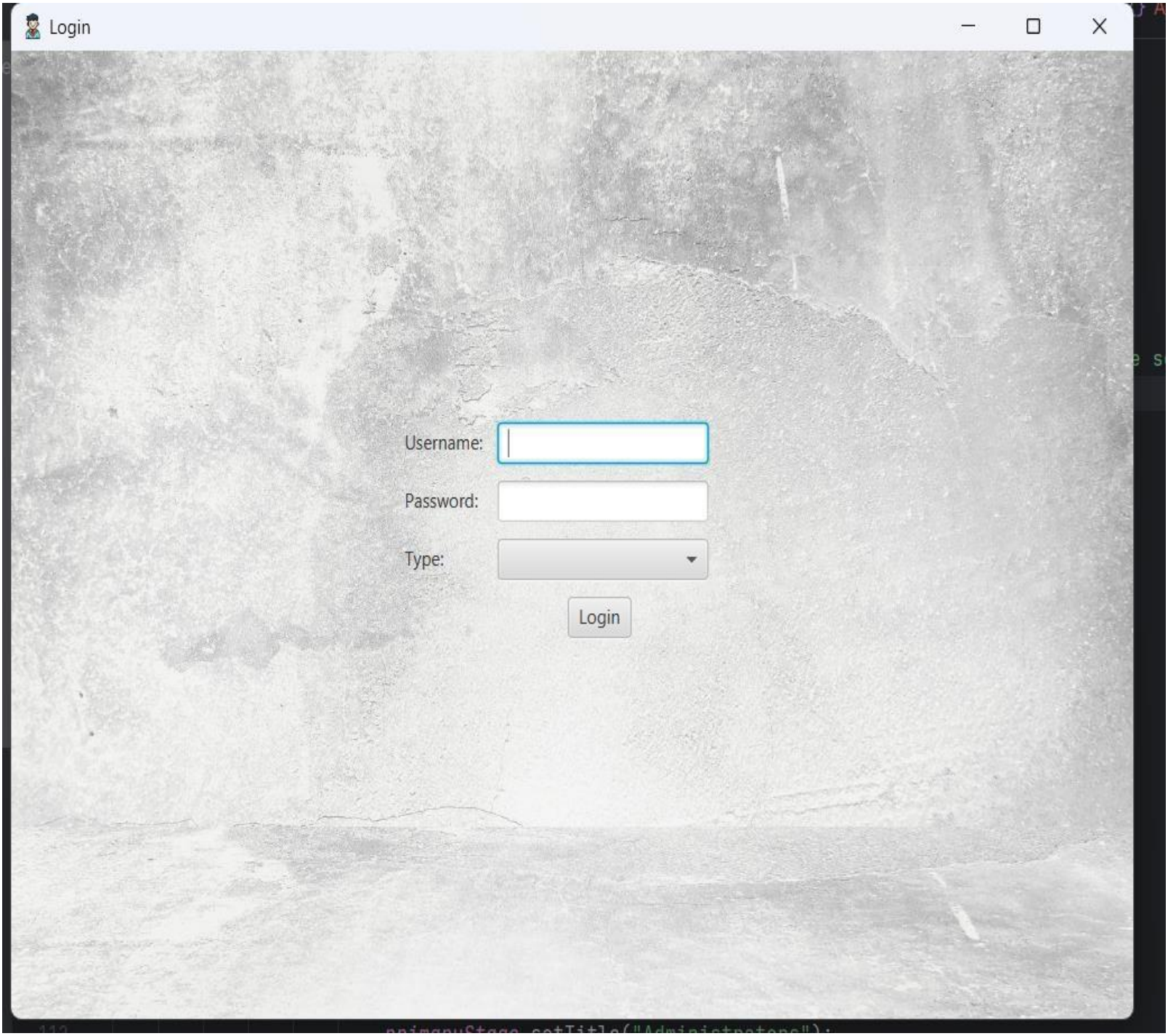
```java
package StudentTeacher;
import javafx.beans.property.IntegerProperty;
import javafx.beans.property.SimpleIntegerProperty;
import javafx.beans.property.SimpleStringProperty;
import javafx.beans.property.StringProperty;
import javafx.geometry.Insets;
import javafx.geometry.Pos;
import javafx.scene.control.*;
import javafx.scene.layout.BorderPane;
import javafx.scene.layout.HBox;
import javafx.scene.layout.VBox;
import javafx.scene.text.Font;
import javafx.scene.text.Text;
import org.json.JSONArray;
import org.json.JSONObject;

import java.io.FileWriter;
import java.io.IOException;

import static Common.CommonMethods.readFile;
```

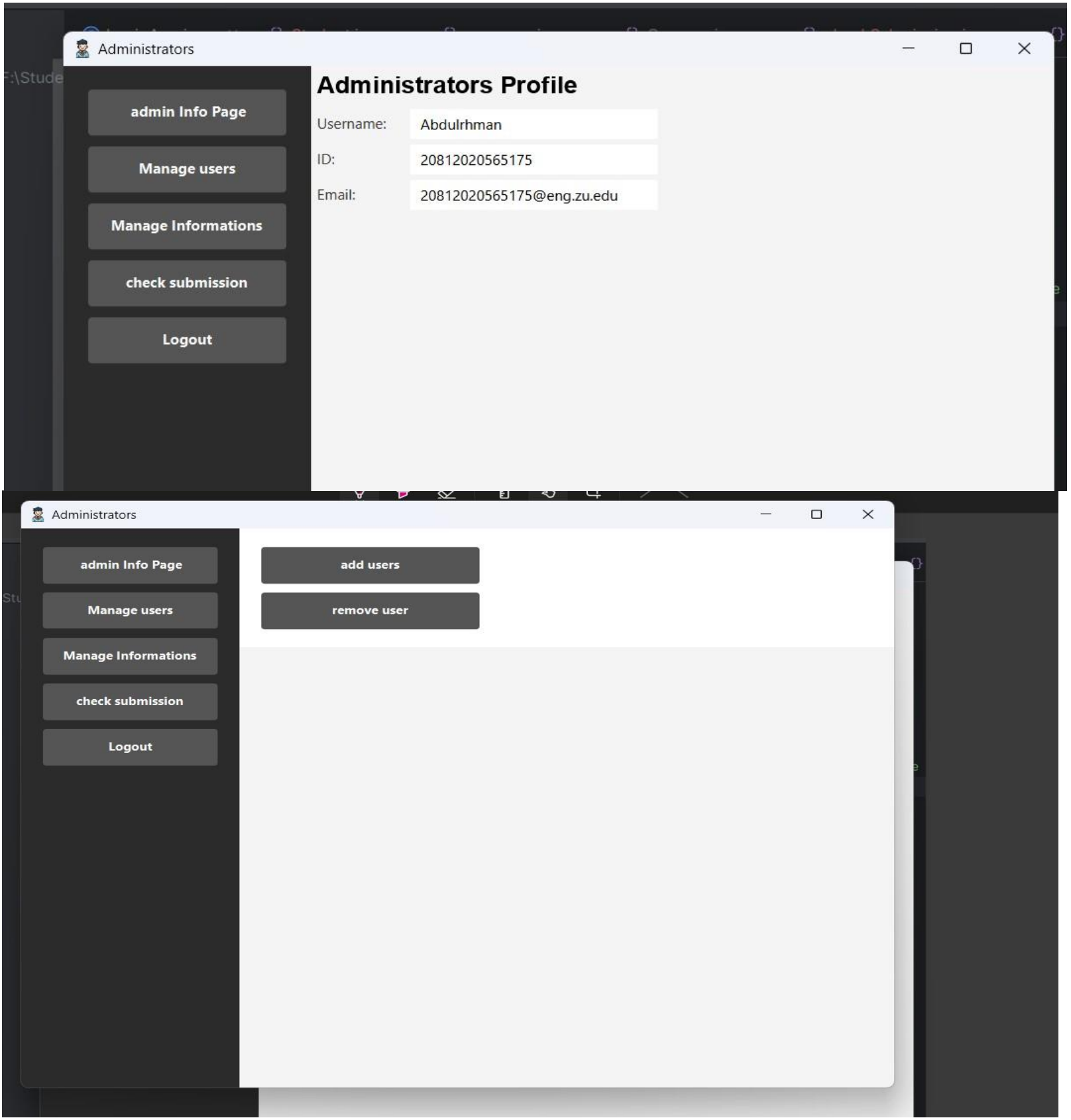
```java
package StudentTeacher;
import MainPackage.LoginApp;
import javafx.scene.Scene;
import javafx.stage.Stage;
import javafx.scene.layout.*;
import javafx.scene.control.*;
import org.json.JSONObject;
import static Common.CommonLayout.*;
import static Common.CommonLayout.createButtonStyle;
import static Common.userProfile.profilePane;
import static StudentTeacher.Attendance.Attendance;
import static StudentTeacher.chatProgram.chatMain;


new *
```

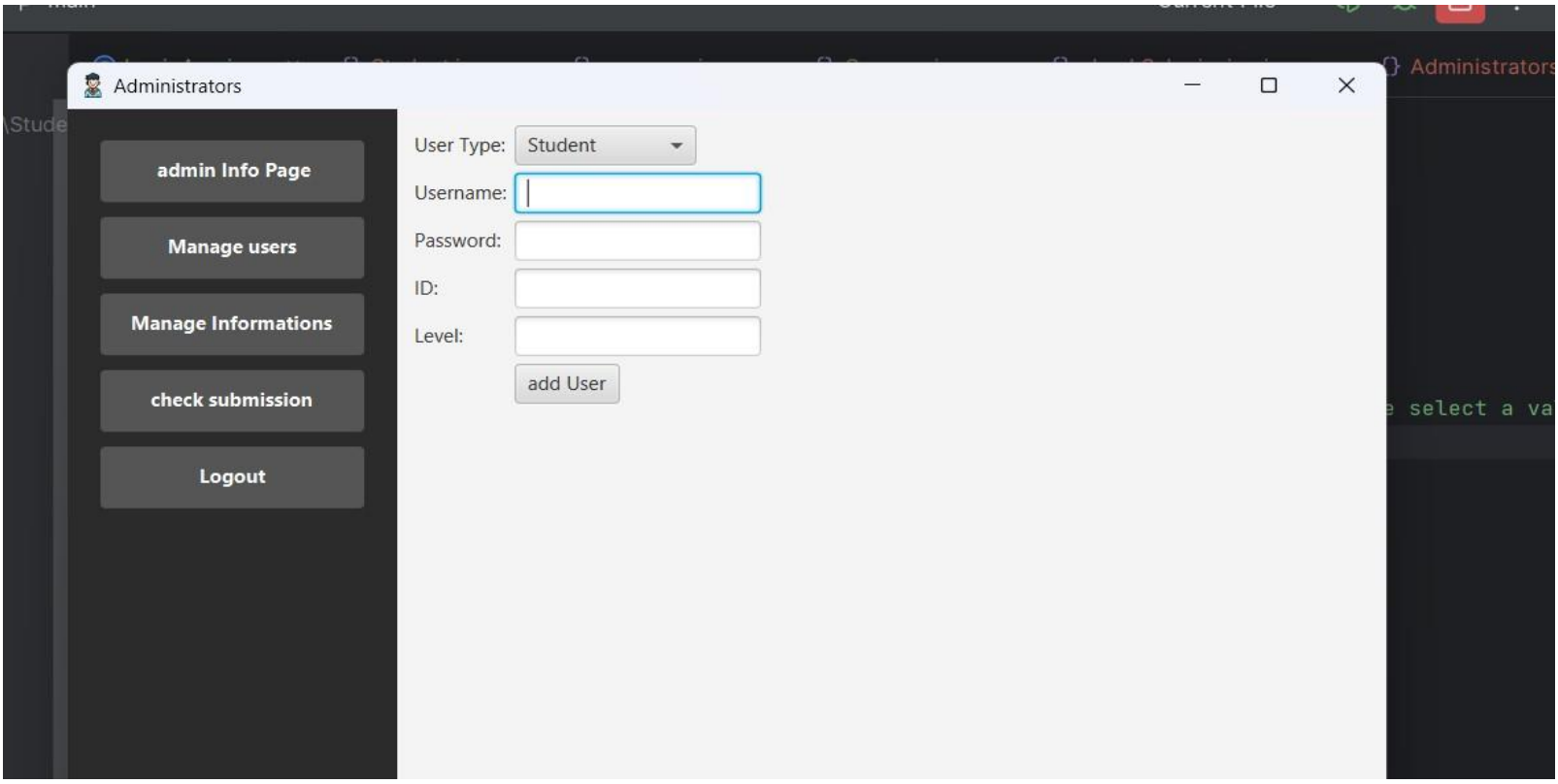


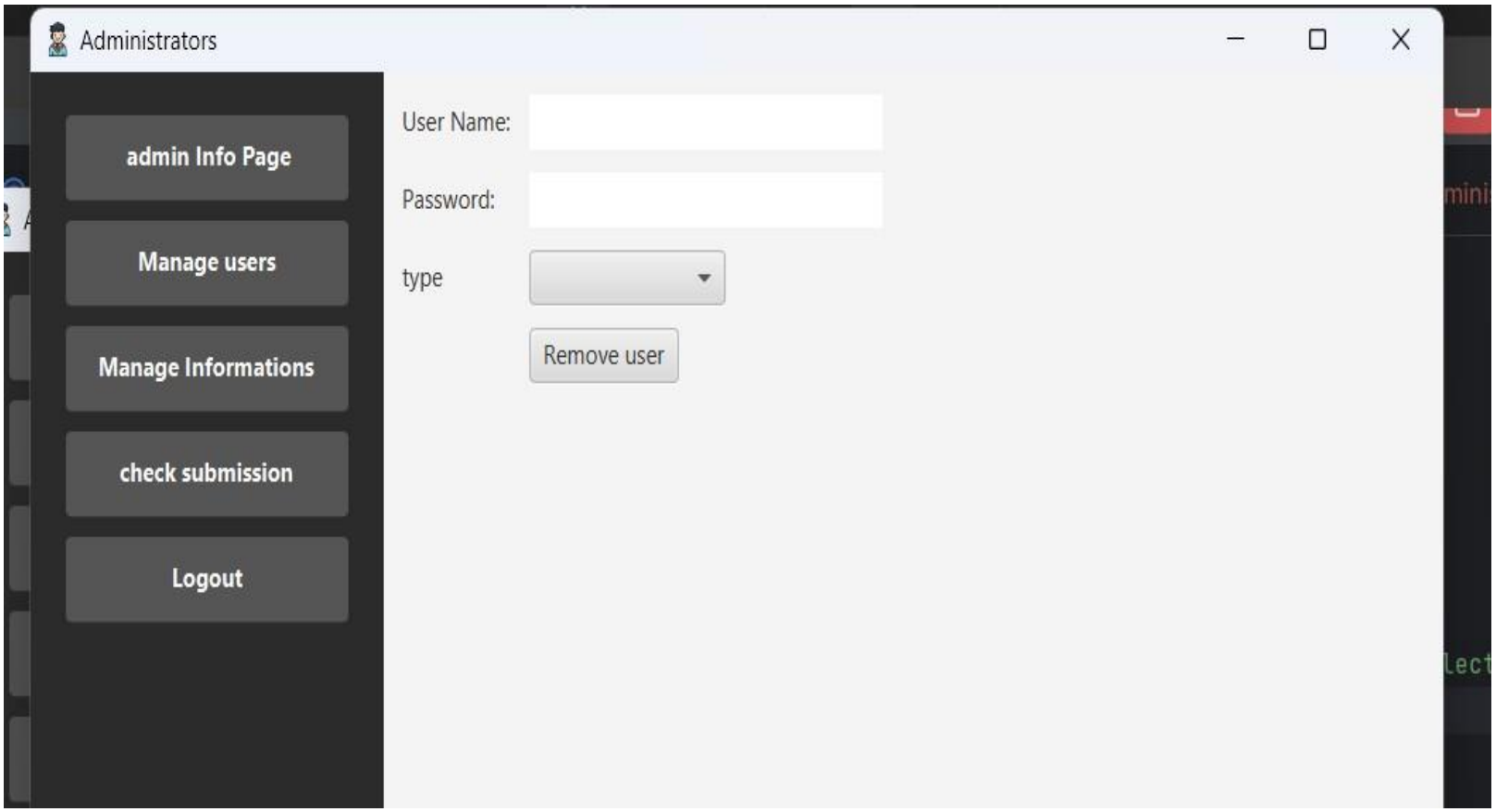
```java
package StudentTeacher;
import javafx.collections.FXCollections;
import javafx.collections.ObservableList;
import javafx.scene.control.*;
import javafx.scene.layout.BorderPane;
import javafx.scene.layout.HBox;
import javafx.scene.layout.VBox;
import javafx.scene.text.Font;
import javafx.scene.text.Text;
import org.json.JSONArray;
import org.json.JSONObject;
import java.io.FileWriter;
import java.io.IOException;
import java.time.LocalDateTime;
import java.time.format.DateTimeFormatter;
import java.util.ArrayList;
import static Common.CommonLayout.*;
import static Common.CommonMethods.printInGoodWay;
import static Common.CommonMethods.readFile;

```

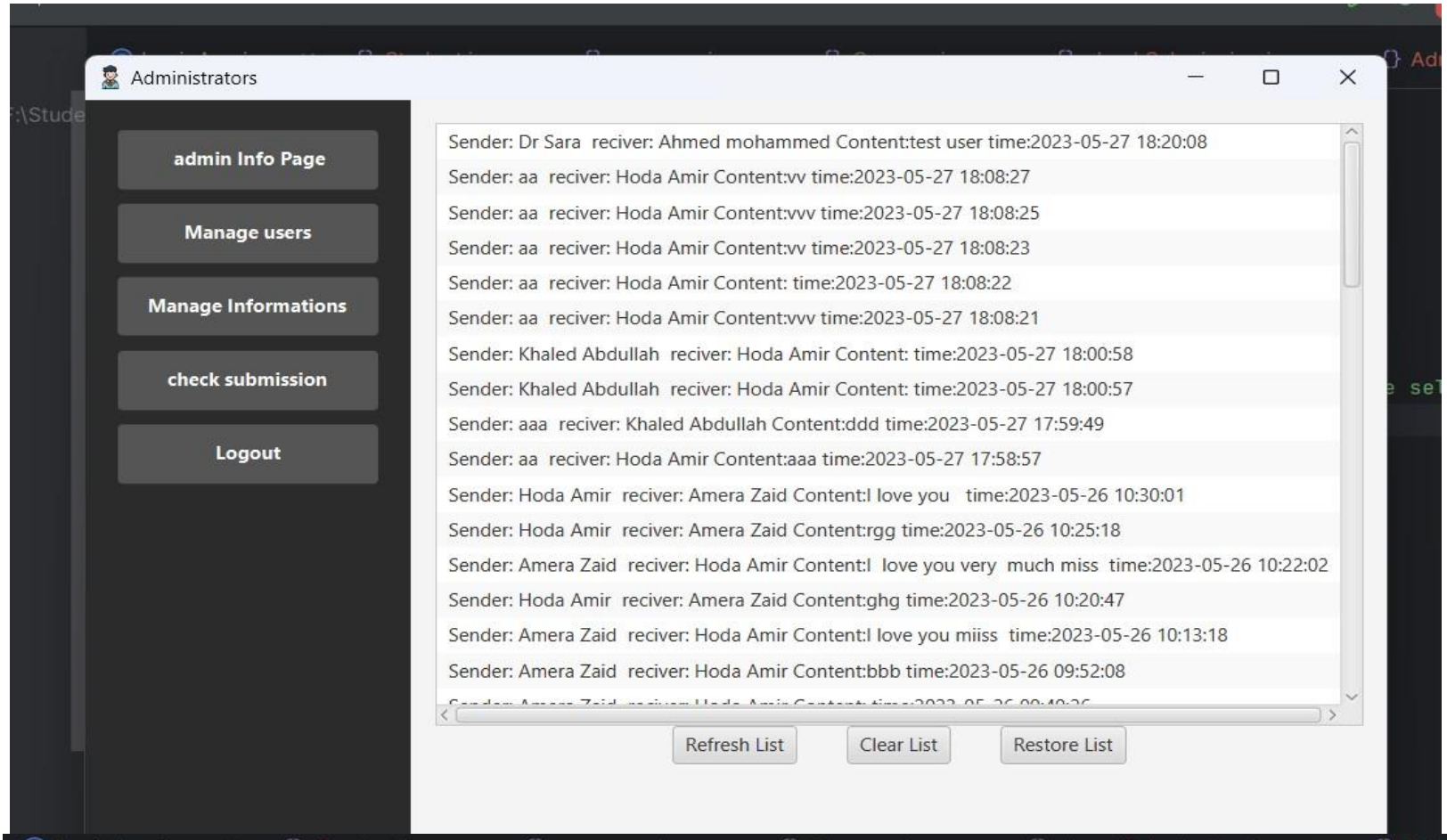
An inside look at our project

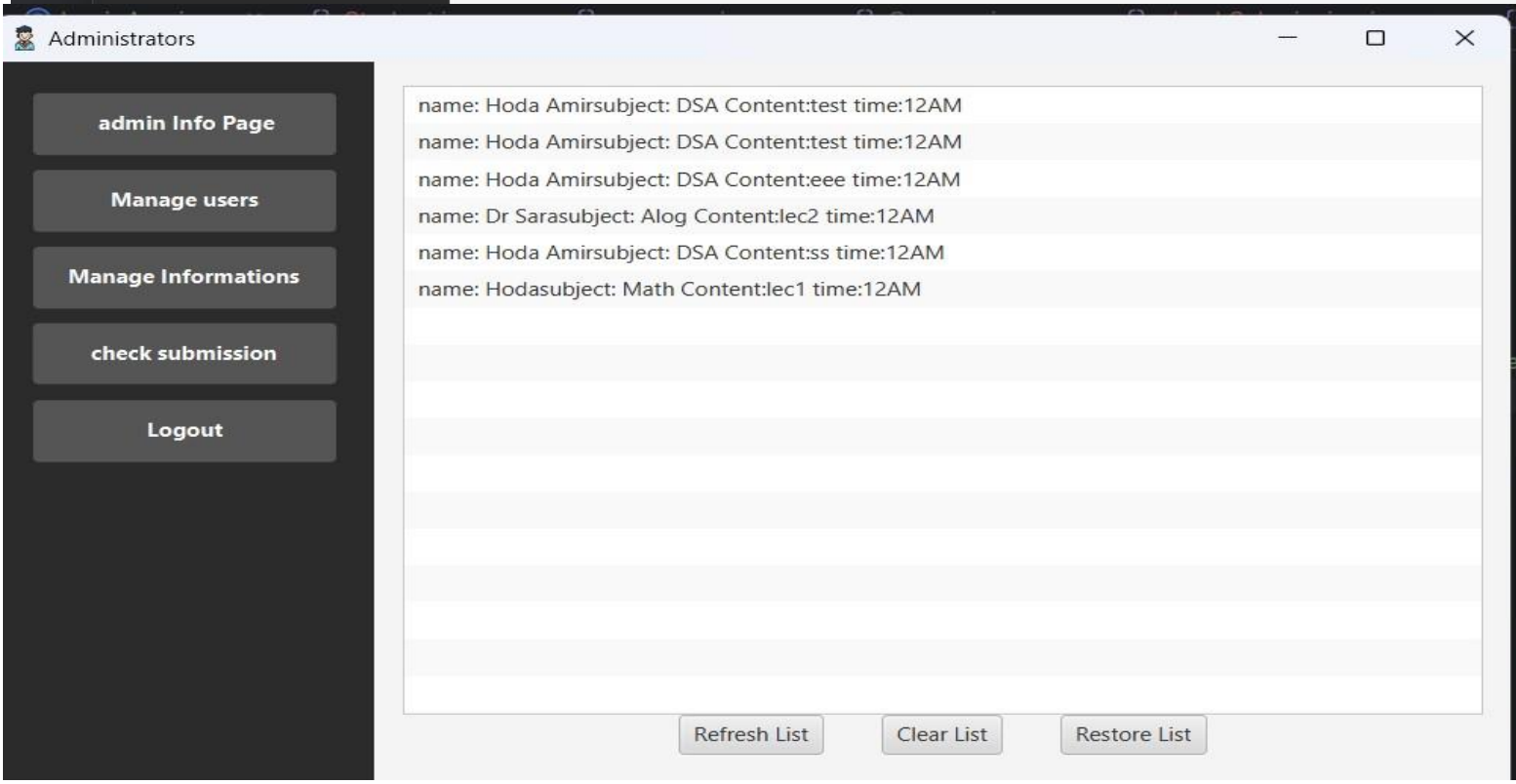

Login
Username:
Password:
Type:
Login

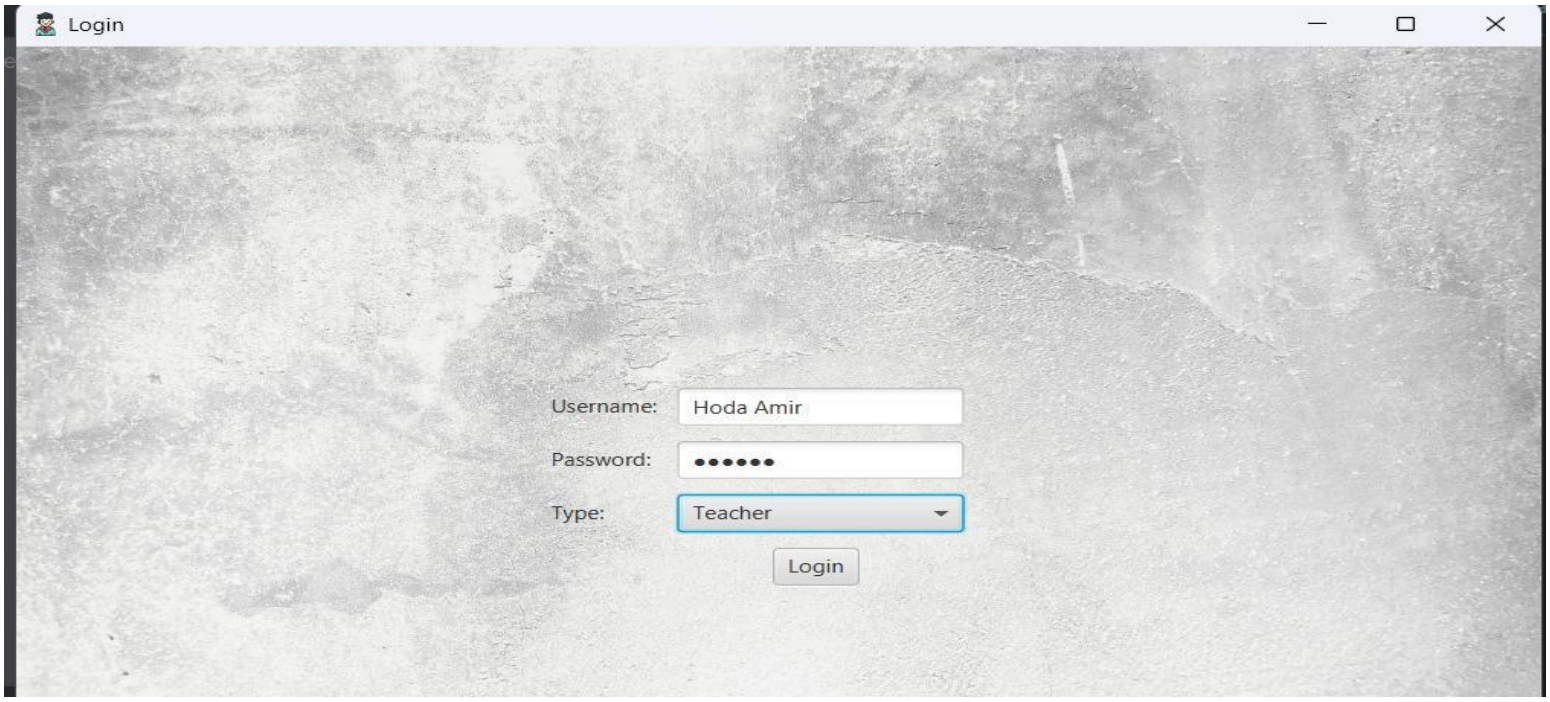

Administrators
admin Info Page
Manage users
Manage Informations
check submission
Logout
Administrators Profile
Username:
Abdulrhman
ID:
20812020565175
Email:
20812020565175@eng.zu.edu
Administrators
admin Info Page
Manage users
Manage Informations
check submission
Logout
add users
remove user

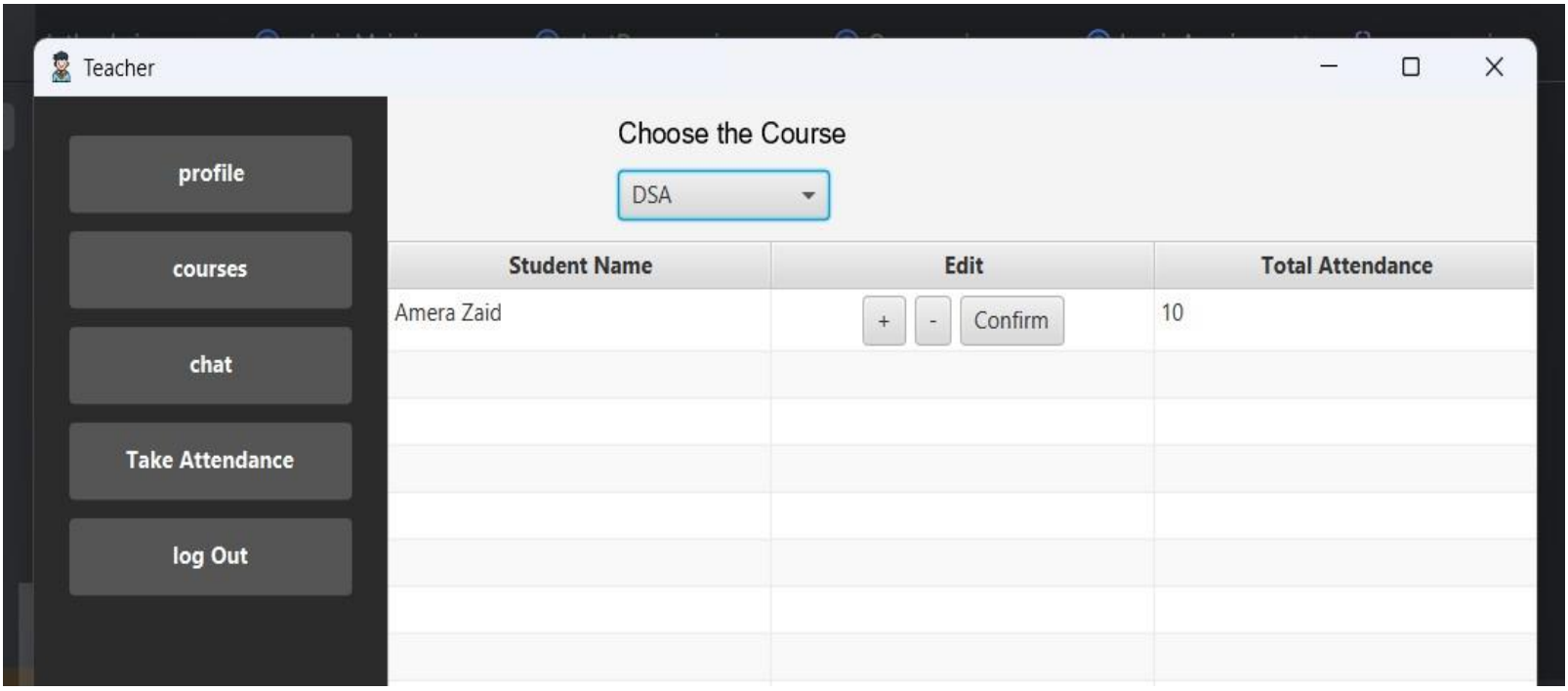

Administrators
admin Info Page
Manage users
Manage Informations
check submission
Logout
User Type:
Student
Username:
Password:
ID:
Level:
add User

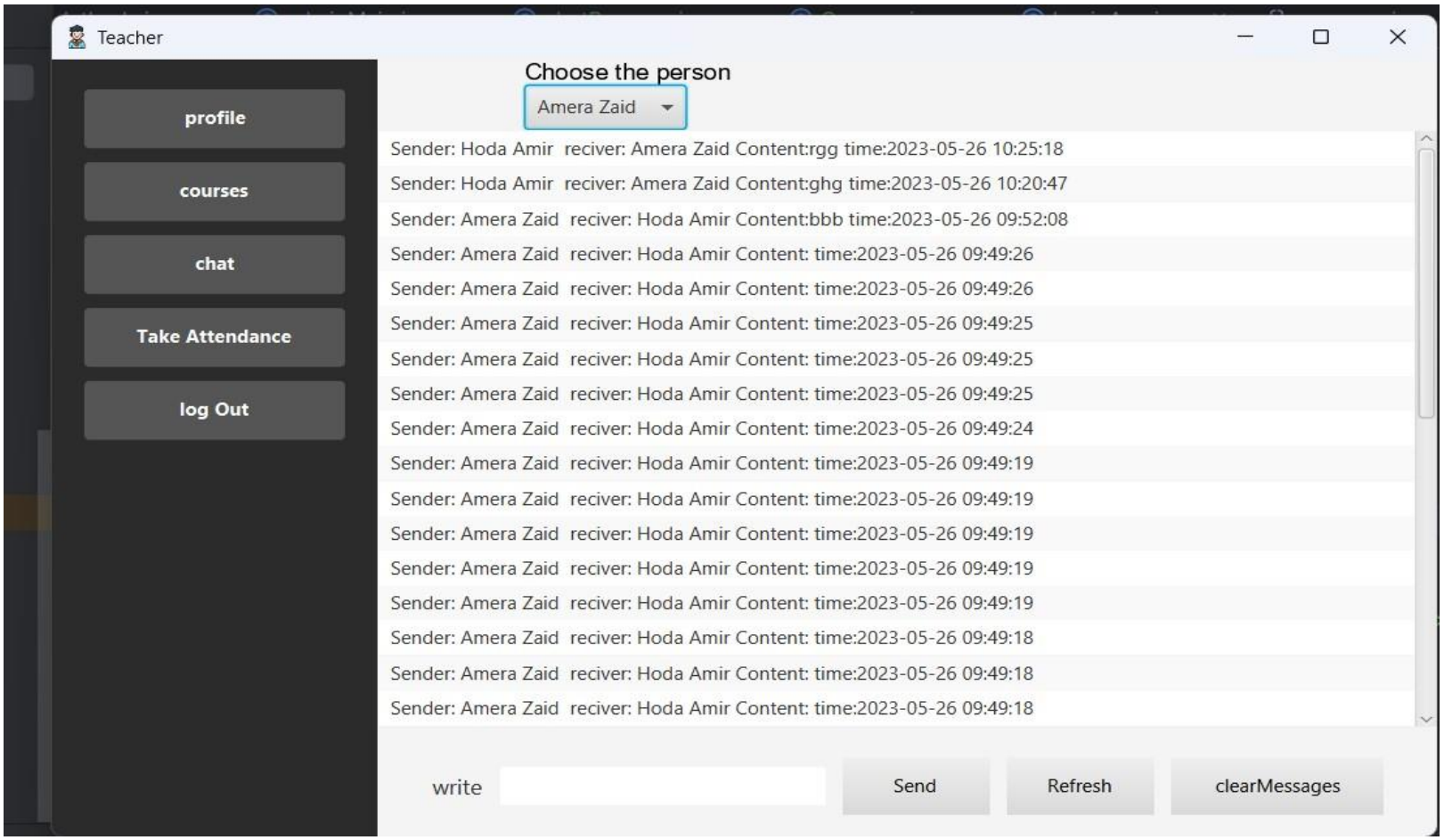

Administrators
admin Info Page
Manage users
Manage Informations
check submission
Logout
User Name:
Password:
type
Remove user

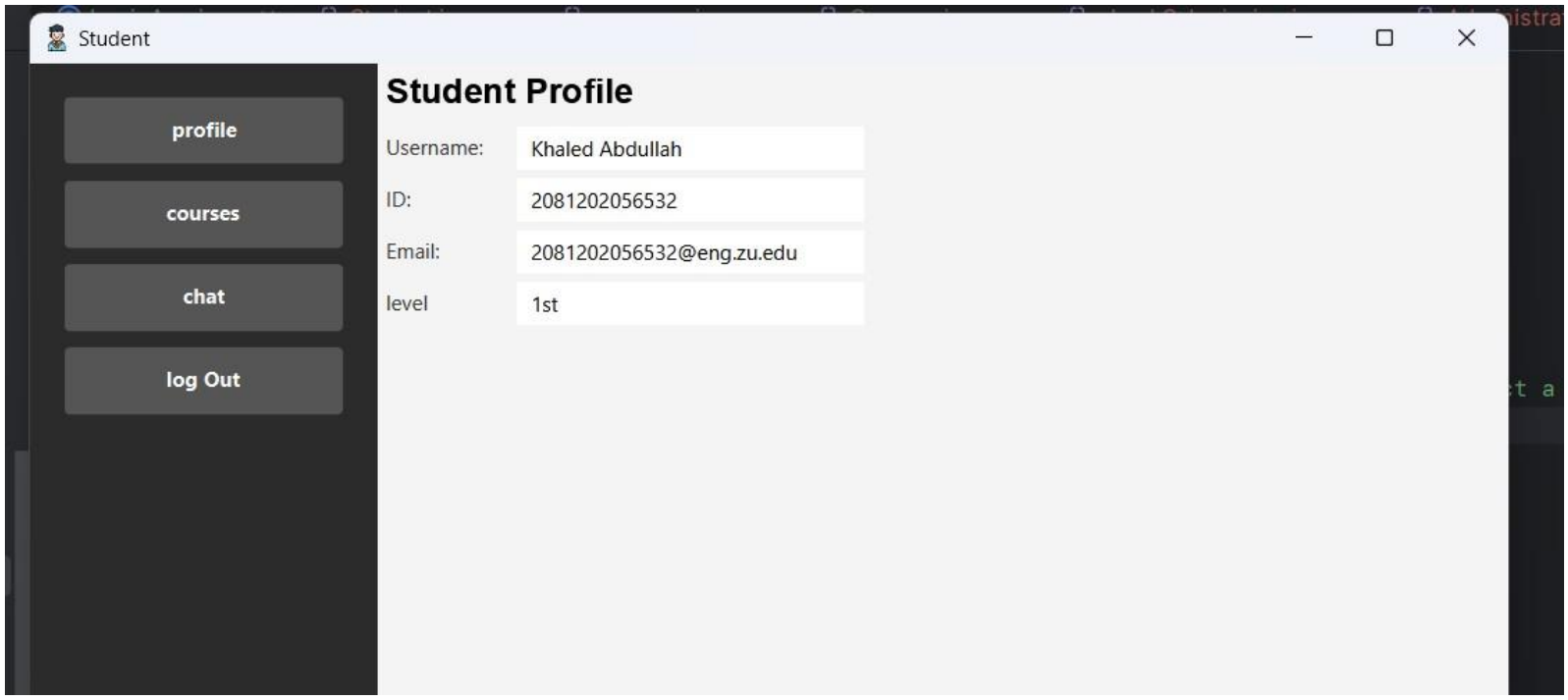

Administrators
admin Info Page
Manage users
Manage Informations
check submission
Logout
Sender: Dr Sara reciver: Ahmed mohammed Content:test user time:2023-05-27 18:20:08
Sender: aa reciver: Hoda Amir Content:vv time:2023-05-27 18:08:27
Sender: aa reciver: Hoda Amir Content:vvv time:2023-05-27 18:08:25
Sender: aa reciver: Hoda Amir Content:vv time:2023-05-27 18:08:23
Sender: aa reciver: Hoda Amir Content: time:2023-05-27 18:08:22
Sender: aa reciver: Hoda Amir Content:vvv time:2023-05-27 18:08:21
Sender: Khaled Abdullah reciver: Hoda Amir Content: time:2023-05-27 18:00:58
Sender: Khaled Abdullah reciver: Hoda Amir Content: time:2023-05-27 18:00:57
Sender: aaa reciver: Khaled Abdullah Content:ddd time:2023-05-27 17:59:49
Sender: aa reciver: Hoda Amir Content:aaa time:2023-05-27 17:58:57
Sender: Hoda Amir reciver: Amera Zaid Content:I love you time:2023-05-26 10:30:01
Sender: Hoda Amir reciver: Amera Zaid Content:rgg time:2023-05-26 10:25:18
Sender: Amera Zaid reciver: Hoda Amir Content:I love you very much miss time:2023-05-26 10:22:02
Sender: Hoda Amir reciver: Amera Zaid Content:ghg time:2023-05-26 10:20:47
Sender: Amera Zaid reciver: Hoda Amir Content:I love you miiss time:2023-05-26 10:13:18
Sender: Amera Zaid reciver: Hoda Amir Content:bbb time:2023-05-26 09:52:08
Refresh List
Clear List
Restore List

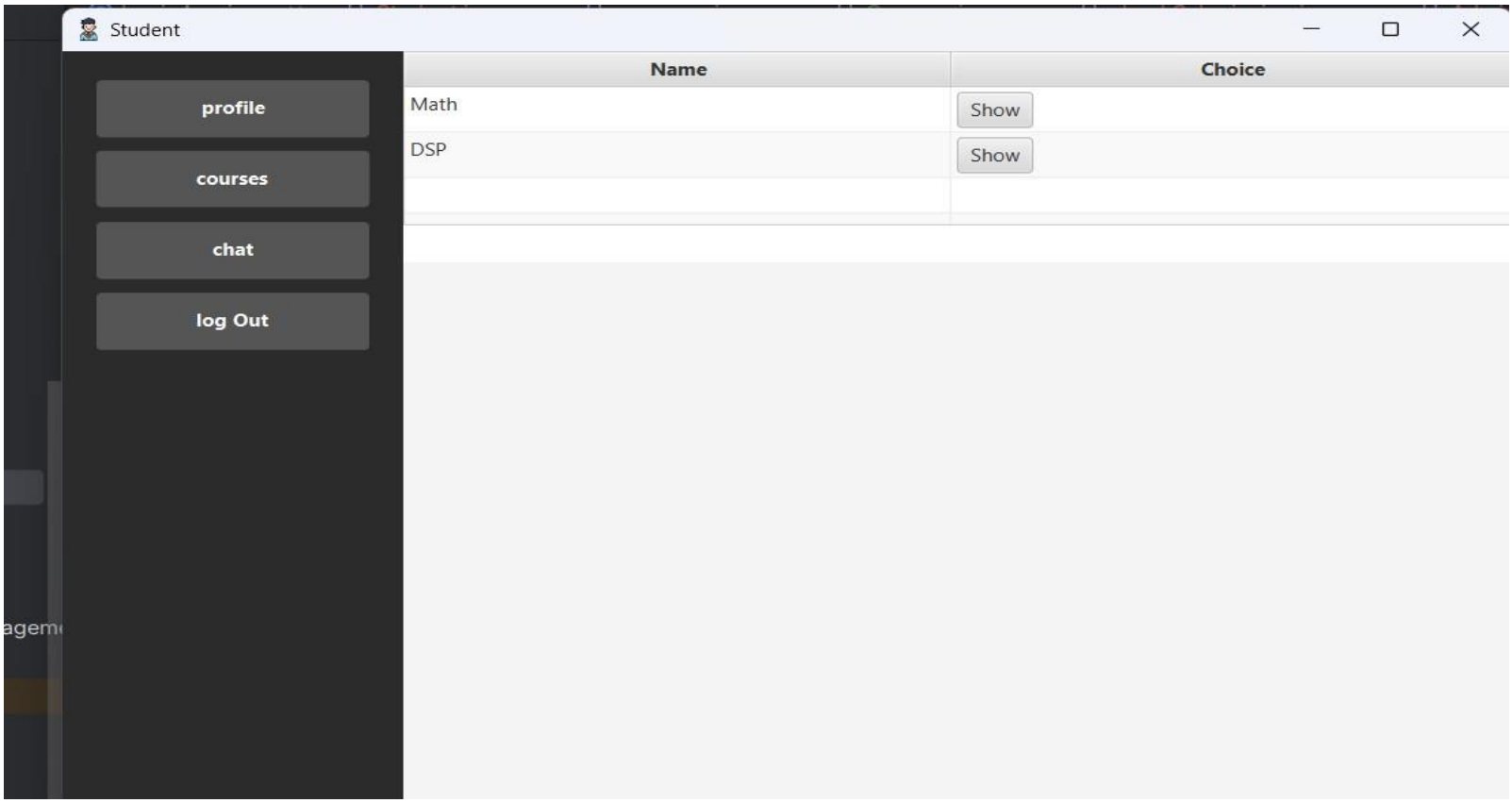

Administrators
admin Info Page
Manage users
Manage Informations
check submission
Logout
name: Hoda Amirsubject: DSA Content:test time:12AM
name: Hoda Amirsubject: DSA Content:test time:12AM
name: Hoda Amirsubject: DSA Content:eee time:12AM
name: Dr Sarasubject: Alog Content:lec2 time:12AM
name: Hoda Amirsubject: DSA Content:ss time:12AM
name: Hodasubject: Math Content:lec1 time:12AM
Refresh List
Clear List
Restore List

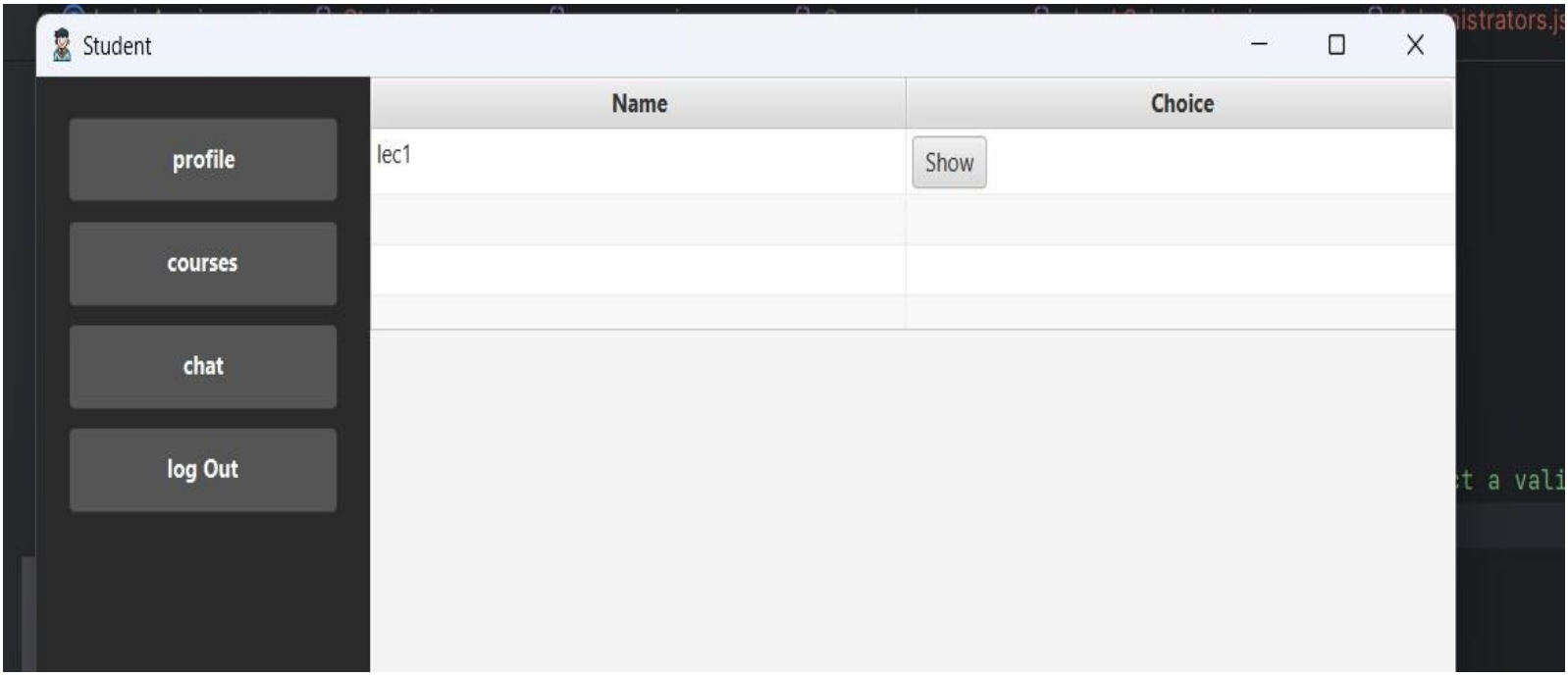

Login
Username:
Hoda Amir
Password:
Type:
Teacher
Login


Teacher
profile
courses
chat
Take Attendance
log Out
Choose the Course
DSA
Student Name
Edit
Total Attendance
Amera Zaid
+
-
Confirm
10

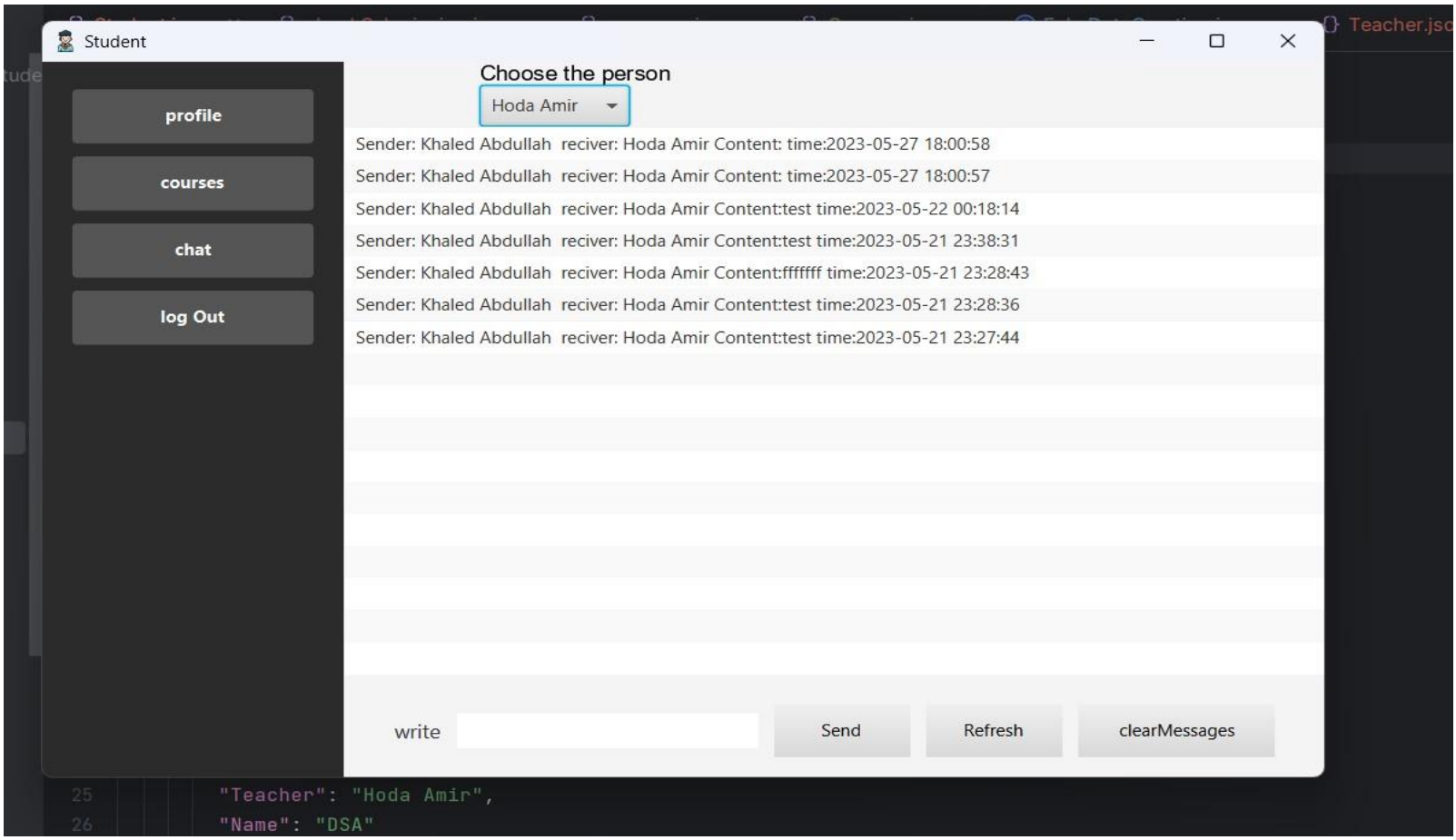

Teacher
profile
courses
chat
Take Attendance
log Out
Choose the person
Amera Zaid
Sender: Hoda Amir reciver: Amera Zaid Content:rgg time:2023-05-26 10:25:18
Sender: Hoda Amir reciver: Amera Zaid Content:ghg time:2023-05-26 10:20:47
Sender: Amera Zaid reciver: Hoda Amir Content:bbb time:2023-05-26 09:52:08
Sender: Amera Zaid reciver: Hoda Amir Content: time:2023-05-26 09:49:26
Sender: Amera Zaid reciver: Hoda Amir Content: time:2023-05-26 09:49:26
Sender: Amera Zaid reciver: Hoda Amir Content: time:2023-05-26 09:49:25
Sender: Amera Zaid reciver: Hoda Amir Content: time:2023-05-26 09:49:25
Sender: Amera Zaid reciver: Hoda Amir Content: time:2023-05-26 09:49:25
Sender: Amera Zaid reciver: Hoda Amir Content: time:2023-05-26 09:49:24
Sender: Amera Zaid reciver: Hoda Amir Content: time:2023-05-26 09:49:19
Sender: Amera Zaid reciver: Hoda Amir Content: time:2023-05-26 09:49:19
Sender: Amera Zaid reciver: Hoda Amir Content: time:2023-05-26 09:49:19
Sender: Amera Zaid reciver: Hoda Amir Content: time:2023-05-26 09:49:19
Sender: Amera Zaid reciver: Hoda Amir Content: time:2023-05-26 09:49:19
Sender: Amera Zaid reciver: Hoda Amir Content: time:2023-05-26 09:49:18
Sender: Amera Zaid reciver: Hoda Amir Content: time:2023-05-26 09:49:18
Sender: Amera Zaid reciver: Hoda Amir Content: time:2023-05-26 09:49:18
write
Send
Refresh
clearMessages

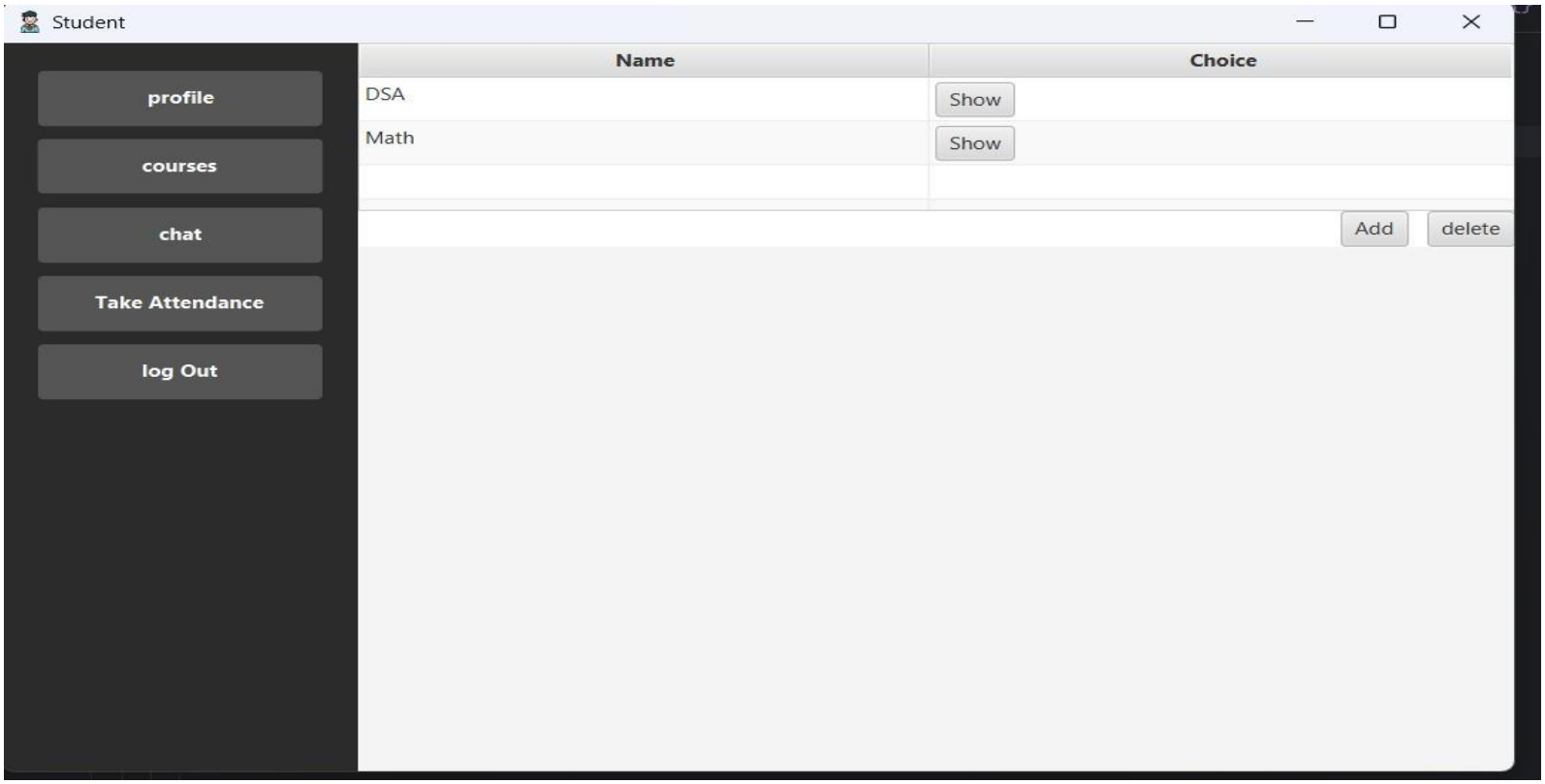

Student
profile
courses
chat
log Out
Student Profile
Username:
Khaled Abdullah
ID:
2081202056532
Email:
2081202056532@eng.zu.edu
level
1st


Student
profile
courses
chat
log Out
Name
Choice
Math
Show
DSP
Show


Student
profile
courses
chat
log Out
Name
Choice
lec1
Show

-


Student
profile
courses
chat
log Out
Choose the person
Hoda Amir
Sender: Khaled Abdullah reciver: Hoda Amir Content: time:2023-05-27 18:00:58
Sender: Khaled Abdullah reciver: Hoda Amir Content: time:2023-05-27 18:00:57
Sender: Khaled Abdullah reciver: Hoda Amir Content:test time:2023-05-22 00:18:14
Sender: Khaled Abdullah reciver: Hoda Amir Content:test time:2023-05-21 23:38:31
Sender: Khaled Abdullah reciver: Hoda Amir Content:fffffff time:2023-05-21 23:28:43
Sender: Khaled Abdullah reciver: Hoda Amir Content:test time:2023-05-21 23:28:36
Sender: Khaled Abdullah reciver: Hoda Amir Content:test time:2023-05-21 23:27:44
write
Send
Refresh
clearMessages
"Teacher": "Hoda Amir",
"Name": "DSA"


Student
profile
courses
chat
Take Attendance
log Out
Name
Choice
DSA
Show
Math
Show
Add
delete

UML


Attendance
AttendanceTableView TableView<Student>
teacher JSONObject
AttendanceConfirmEditing(Student) void
AttendanceConfirmEditingJson() void
Attendance(JSONObject) BorderPane
addStudentsTolist(String, JSONArray) void
createAttendanceTableView() void
Student
courseIndex int
studentIndex int
name StringProperty
attendance IntegerProperty
getcstudentIndex() int
increaseAttendance() void
Student(String, int, int, int)
getAttendance() IntegerProperty
decreaseAttendance() void
getName() StringProperty
getcourseIndex() int
FakeDataCreation
ids List<String>
firstNames String[]
coursesTaked String[]
writeJsonFile(JSONArray, String, Boolean) void
getRandomId() String
createCourse() JSONObject
readJsonFileandAppend(JSONArray, String) JSONArray
creatListOfCourses() JSONArray
createCourse(int) JSONObject
getRandomPassword() String
generateStudentData(int, String) JSONArray
generateIds() void
creatListOfCourses(int) JSONArray
createStudentJsonObject(String) JSONObject
initializeDataLists() void
createStudentJsonObject(int) JSONObject
main(String[]) void
generateStudentData(int, int) JSONArray
generatePasswords() void
chatProgram
newMessageto JSONObject
choosePane VBox
newval String
reciverdata String[]
writeMeessagetxt TextField
chatData ObservableList<String>
user JSONObject
coursesNameTeacherName ArrayList<String>
getCurrentTime() String
chatMain(JSONObject) BorderPane
createNewMessage(String) JSONObject
writeOnuserInfoFterAddmessage(String, JSONObject) void
showMessages(Object) void
Courses
userCourses JSONArray
subjectTable TableView<Course>
User JSONObject
coursesName ArrayList<String>
coursesVbox VBox
writeToCourses(JSONArray) void
createTable(Boolean, String) void
findCourse(String) void
makeJsonObjeccheck(String, String, String, String) void
openPopupWindow(Boolean) void
CoursesVbox(JSONObject) BorderPane
TableCell
OpenLinkButton
CoursesName String
button Button
link String
updateItem(String, boolean) void
openLink() void
OpenLinkButton()
openPdfsButton
button Button
CoursesName String
openPdfsButton()
updateItem(String, boolean) void
Application
removed
removed
removed
removed
LoginApp
primaryStage Stage
start(Stage) void
setupLoginPage() void
main(String[]) void
HelloApplication
SidebarExample
Admin
AdminMain
CommonMethods
filePath(String) String
readFile(String) JSONArray
validateCredentials(String, String, String, Boolean) JSONObject
printInGoodWay(JSONObject) String
removeJsonObjectFromFile(JSONArray, int, String) void
switchingScenes(Stage, Scene) void
CommonLayout
createGridPane() GridPane
createVBoxStyle() VBox
createText(String) TextField
createButtonStyle(String) Button
createHboxStyle() HBox
creatAlert(AlertType, String, String, String) Alert
adminMain
adminStage Stage
adminInfo BorderPane
handleAdminInfoButton(JSONObject) void
startAdmin(Stage, JSONObject) Scene
handlelogOutButton() void
mainAdminScene(JSONObject) Scene
Course
CourseName StringProperty
link StringProperty
Course(JSONObject)
getCourseName() StringProperty
getCourseLink() StringProperty
mangeInfoCheck
items ObservableList<String>
updatedData(String, Boolean) void
managInfoCheckPane(String, Boolean) BorderPane
printInGoodWayAdminCheck(JSONObject) String
StudentMain
StudentStage Stage
startStudent(Stage, JSONObject) Scene
StudentMainPane(JSONObject) Scene
manageUsers
manageUsersMain() BorderPane
removeUserGrid() GridPane
AddUsers() GridPane
userProfile
profilePane(JSONObject) GridPane
CommonMethods
HelloController
Courses.json

problems

1-How to store data?

By using json files.

2-How to make chat between student and teacher ?

By using json file to store messgaes and accces the needed message using search about user messages in the file.

Points doesn't complete ?

1-when add user we didn't make admin choose course to be added and student added to teacher student list as well as when add teacher also things.

2-to improve the GUI Use dataBase insetad Json files.

3-connect the project to the server.

4-Make the admin choose level and term based on courses is added.

5- improve fake data code

External Resources

https://poe.com/ChatGPT

"We used ChatGPT to understand some of the basic points in the project that were not covered in the curriculum of the college."