

Sri Lanka Institute of Information Technology

# Distributed Systems – SE3020

Assignment – 2

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1.High Level Architectural Diagram

A screenshot of a computer

Description automatically generated

2.Service interfaces and sequence diagrams

a. Web Client

Using the GET process, the web client directly accesses the REStT api to retrieve the sensor information. The web client application retrieves data from the API every 40s and updates the page ecery by 40 seconds. The background color of each sensor information card changes as follows:

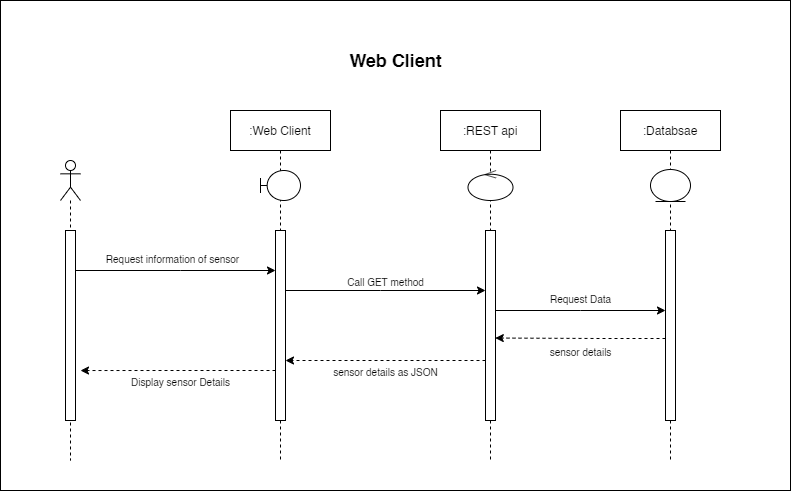
1. Green: if the sensor is active and the level of smoke and Co2 is below 5
2. Red: if the sensor is active and the level of either smoke or Co2 is equal to or greater than 5; or if the level of smoke and Co2 is equal to or greater than 5
3. Grey: if the sensor is inactive

**Interface**

**A screenshot of a video game

Description automatically generated**

**Sequence Diagram**

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b. Desktop Client

There are two types of users for the desktop client. Feature of them are listed below:

* User
  + To get the details of the sensor
* Admin
  + Adding a new sensor
  + Edit sensor
  + Delete sensor
  + Needs to log in to the system

**![A screenshot of a cell phone

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDgRXhpZgAATU0AKgAAAAgABAE7AAIAAAAHAAAISodpAAQAAAABAAAIUpydAAEAAAAOAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAG9wdGFuZQAAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzYzAACSkgACAAAAAzYzAADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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screenshot of a cell phone

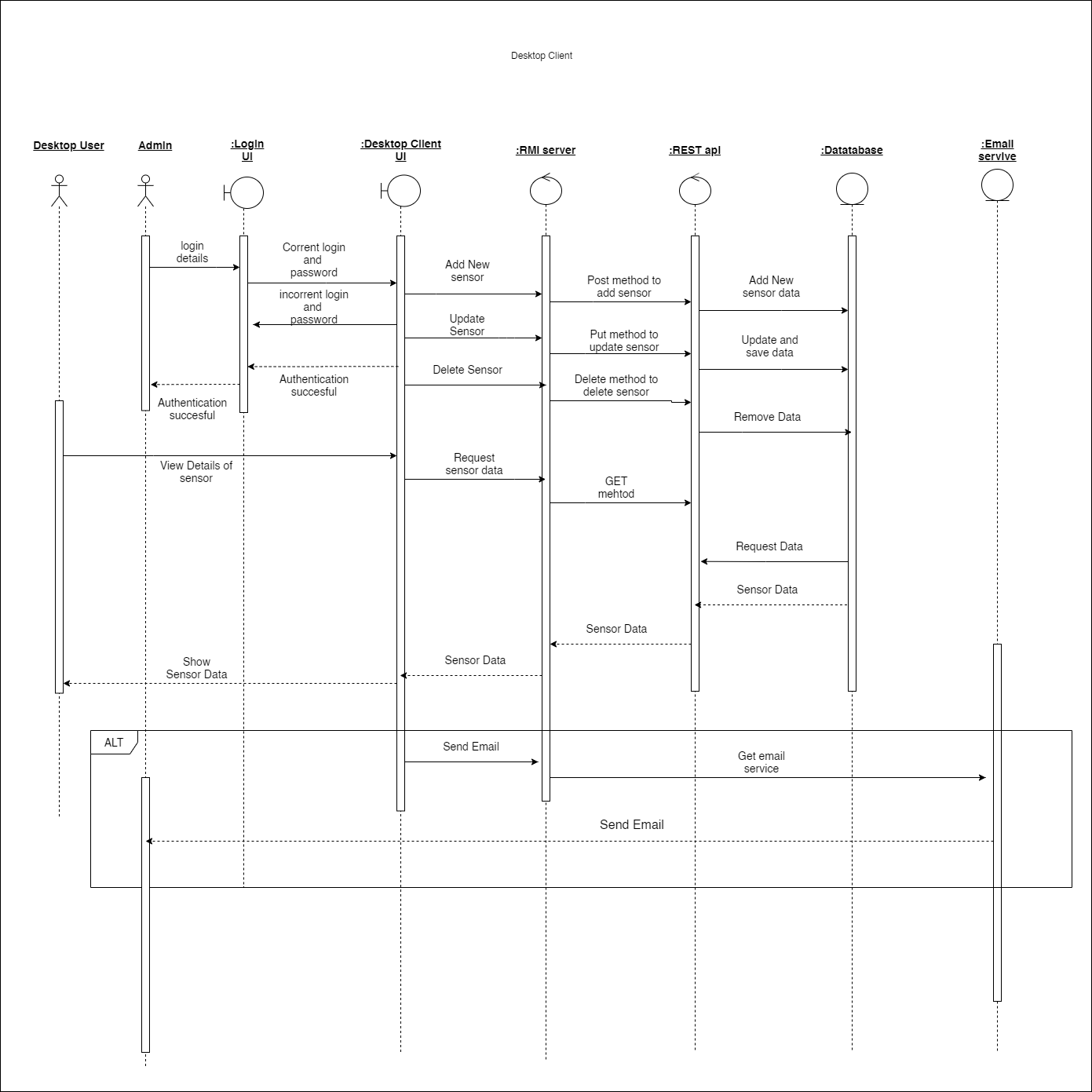
Description automatically 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Ga/iJ/z52P/gYtfZVFAHxr/wAM1/ET/nzsf/AxaP8Ahmv4if8APnY/+Bi19lUUAfGv/DNfxE/587H/AMDFo/4Zr+In/PnY/wDgYtfZVFAHxr/wzX8RP+fOx/8AAxaP+Ga/iJ/z52P/AIGLX2VRQB8a/wDDNfxE/wCfOx/8DFo/4Zr+In/PnY/+Bi19lUUAfGv/AAzX8RP+fOx/8DFo/wCGa/iJ/wA+dj/4GLX2VRQB8a/8M1/ET/nzsf8AwMWj/hmv4if8+dj/AOBi19lUUAfGv/DNfxE/587H/wADFo/4Zr+In/PnY/8AgYtfZVFAHxr/AMM1/ET/AJ87H/wMWj/hmv4if8+dj/4GLX2VRQB8a/8ADNfxE/587H/wMWj/AIZr+In/AD52P/gYtfZVFAHxr/wzX8RP+fOx/wDAxaP+Ga/iJ/z52P8A4GLX2VRQB8a/8M1/ET/nzsf/AAMWj/hmv4if8+dj/wCBi19lUUAfGv8AwzX8RP8Anzsf/AxaP+Ga/iJ/z52P/gYtfZVFAHxr/wAM1/ET/nzsf/AxaP8Ahmv4if8APnY/+Bi19lUUAfGv/DNfxE/587H/AMDFo/4Zr+In/PnY/wDgYtfZVFAHxr/wzX8RP+fOx/8AAxaP+Ga/iJ/z52P/AIGLX2VRQB8a/wDDNfxE/wCfOx/8DFo/4Zr+In/PnY/+Bi19lUUAfGv/AAzX8RP+fOx/8DFo/wCGa/iJ/wA+dj/4GLX2VRQB8a/8M1/ET/nzsf8AwMWvUP8AhW3iz/oFf+TMX/xVe9UUAf/Z)Interface**

**![A close up of a monitor

Description automatically generated](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDgRXhpZgAATU0AKgAAAAgABAE7AAIAAAAHAAAISodpAAQAAAABAAAIUpydAAEAAAAOAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAG9wdGFuZQAAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzIxAACSkgACAAAAAzIxAADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**![A screenshot of a computer screen

Description automatically 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N3/wBB7Uf+/dv/APGqP7Ju/wDoPaj/AN+7f/41QB8A0V9/f2Td/wDQe1H/AL92/wD8ao/sm7/6D2o/9+7f/wCNUAfANFff39k3f/Qe1H/v3b//ABqj+ybv/oPaj/37t/8A41QB8A0V9/f2Td/9B7Uf+/dv/wDGqP7Ju/8AoPaj/wB+7f8A+NUAfANFff39k3f/AEHtR/792/8A8ao/sm7/AOg9qP8A37t//jVAHwDRX39/ZN3/ANB7Uf8Av3b/APxqj+ybv/oPaj/37t//AI1QB8A0V9/f2Td/9B7Uf+/dv/8AGqP7Ju/+g9qP/fu3/wDjVAHwDRX39/ZN3/0HtR/792//AMao/sm7/wCg9qP/AH7t/wD41QB8A0V9/f2Td/8AQe1H/v3b/wDxqj+ybv8A6D2o/wDfu3/+NUAfANFff39k3f8A0HtR/wC/dv8A/GqP7Ju/+g9qP/fu3/8AjVAHwDRX39/ZN3/0HtR/792//wAao/sm7/6D2o/9+7f/AONUAfANFff39k3f/Qe1H/v3b/8Axqj+ybv/AKD2o/8Afu3/APjVAHwDRX39/ZN3/wBB7Uf+/dv/APGqP7Ju/wDoPaj/AN+7f/41QB8A0V9/f2Td/wDQe1H/AL92/wD8ao/sm7/6D2o/9+7f/wCNUAfANFff39k3f/Qe1H/v3b//ABqj+ybv/oPaj/37t/8A41QB8A0V9/f2Td/9B7Uf+/dv/wDGqP7Ju/8AoPaj/wB+7f8A+NUAfANFff39k3f/AEHtR/792/8A8ao/sm7/AOg9qP8A37t//jVAHwDRX39/ZN3/ANB7Uf8Av3b/APxqj+ybv/oPaj/37t//AI1QB8A0V9/f2Td/9B7Uf+/dv/8AGqP7Ju/+g9qP/fu3/wDjVAHwDRX39/ZN3/0HtR/792//AMao/sm7/wCg9qP/AH7t/wD41QB8A0V9/f2Td/8AQe1H/v3b/wDxqj+ybv8A6D2o/wDfu3/+NUAfANFff39k3f8A0HtR/wC/dv8A/GqP7Ju/+g9qP/fu3/8AjVAHwDRX39/ZN3/0HtR/792//wAao/sm7/6D2o/9+7f/AONUAfANFff39k3f/Qe1H/v3b/8Axqj+ybv/AKD2o/8Afu3/APjVAHwDRX39/ZN3/wBB7Uf+/dv/APGqP7Ju/wDoPaj/AN+7f/41QB8A0V9/f2Td/wDQe1H/AL92/wD8ao/sm7/6D2o/9+7f/wCNUAfANFff39k3f/Qe1H/v3b//ABqj+ybv/oPaj/37t/8A41QB8A0V9/f2Td/9B7Uf+/dv/wDGqP7Ju/8AoPaj/wB+7f8A+NUAfANFff39k3f/AEHtR/792/8A8ao/sm7/AOg9qP8A37t//jVAHwDRX39/ZN3/ANB7Uf8Av3b/APxqj+ybv/oPaj/37t//AI1QB8A0V9/f2Td/9B7Uf+/dv/8AGqP7Ju/+g9qP/fu3/wDjVAHwDRX39/ZN3/0HtR/792//AMao/sm7/wCg9qP/AH7t/wD41QB8A0V9/f2Td/8AQe1H/v3b/wDxqj+ybv8A6D2o/wDfu3/+NUAfANFff39k3f8A0HtR/wC/dv8A/GqP7Ju/+g9qP/fu3/8AjVAHwDRX39/ZN3/0HtR/792//wAao/sm7/6D2o/9+7f/AONUAfANFff39k3f/Qe1H/v3b/8Axqj+ybv/AKD2o/8Afu3/APjVAHxj8JlD/Frw4pLAG9UZVip6HoRyK+2fsEf/AD3vP/AyX/4qqT6HLMYxc6xfTxxypL5brAAxRgwztjBxlR0IrWoA/9k=)**

**Sequence Diagram**

c. Sensor App

It is a client that functions as a sensor. It sensor application holds REST api data and the smoke level and each sensor Co2 values are changed randomly. Each sensor is accessed by ID and each sensor is updated with every 10 seconds

3. Conclusion

This project consists of a web application and a desktop application that is used to view and manage sensor details of an alarm monitoring system. Only the sensor details can be viewed through the web application. Through the desktop application, general users can view the sensor details and an admin can log into the system to manage sensor details and add new sensors.

The MySQL database is accessed through the REST API and that is implemented using the jersey framework. The web application’s frontend is implemented from ReactJs. The desktop application accesses the REST API through a RMI server and passes the data to a RMI client.

4.Appendix

**API**

1. Sensore Model Class

**package** model;

**public** **class** SensorModel {

**private** **int** SENSOR\_ID;

**private** String SENSOR\_STATUS;

**private** String FLOOR\_NUMBER;

**private** String ROOM\_NUMBER;

**private** **int** SMOKE\_LEVEL;

**private** **int** CO2\_LEVEL;

**public** SensorModel(**int** sENSOR\_ID, String sENSOR\_STATUS, String fLOOR\_NUMBER, String rOOM\_NUMBER, **int** sMOKE\_LEVEL,

**int** cO2\_LEVEL) {

**super**();

SENSOR\_ID = sENSOR\_ID;

SENSOR\_STATUS = sENSOR\_STATUS;

FLOOR\_NUMBER = fLOOR\_NUMBER;

ROOM\_NUMBER = rOOM\_NUMBER;

SMOKE\_LEVEL = sMOKE\_LEVEL;

CO2\_LEVEL = cO2\_LEVEL;

}

**public** SensorModel() {

}

**public** **int** getSENSOR\_ID() {

**return** SENSOR\_ID;

}

**public** **void** setSENSOR\_ID(**int** sENSOR\_ID) {

SENSOR\_ID = sENSOR\_ID;

}

**public** String getSENSOR\_STATUS() {

**return** SENSOR\_STATUS;

}

**public** **void** setSENSOR\_STATUS(String sENSOR\_STATUS) {

SENSOR\_STATUS = sENSOR\_STATUS;

}

**public** String getFLOOR\_NUMBER() {

**return** FLOOR\_NUMBER;

}

**public** **void** setFLOOR\_NUMBER(String fLOOR\_NUMBER) {

FLOOR\_NUMBER = fLOOR\_NUMBER;

}

**public** String getROOM\_NUMBER() {

**return** ROOM\_NUMBER;

}

**public** **void** setROOM\_NUMBER(String rOOM\_NUMBER) {

ROOM\_NUMBER = rOOM\_NUMBER;

}

**public** **int** getSMOKE\_LEVEL() {

**return** SMOKE\_LEVEL;

}

**public** **void** setSMOKE\_LEVEL(**int** sMOKE\_LEVEL) {

SMOKE\_LEVEL = sMOKE\_LEVEL;

}

**public** **int** getCO2\_LEVEL() {

**return** CO2\_LEVEL;

}

**public** **void** setCO2\_LEVEL(**int** cO2\_LEVEL) {

CO2\_LEVEL = cO2\_LEVEL;

}

}

1. DB Connection Class

**package** dbcon;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**public** **class** DBConnection {

//DB Connection Method

**public** **static** Connection connection() {

Connection con = **null** ;

**try** {

Class.*forName*("com.mysql.cj.jdbc.Driver");

//DB Connection

con = DriverManager.*getConnection*("jdbc:mysql://127.0.0.1:3306/firealarmmonitosystem", "root" , "pasindupasi1998");

}

**catch** (Exception e) {

// **TODO**: handle exception

e.printStackTrace();

}

**return** con;

}

}

1. SensoreController Class
2. **package** controller;
3. **import** com.google.gson.Gson;
4. **import** com.mysql.cj.xdevapi.DbDoc;
5. **import** dbcon.DBConnection;
6. **import** model.SensorModel;
7. **import** java.awt.List;
8. **import** java.sql.Connection;
9. **import** java.sql.PreparedStatement;
10. **import** java.sql.ResultSet;
11. **import** java.sql.Statement;
12. **import** java.util.ArrayList;
13. **import** java.util.Arrays;
14. **import** java.util.concurrent.Semaphore;
15. **public** **class** SensorController {
16. Connection con = **null**;
17. ArrayList<SensorModel> SensorList = **new** ArrayList<SensorModel>();
18. **public** SensorController() {
19. con = DBConnection.*connection*();
20. }
21. **public** String InsertSensor(SensorModel sensorOb) {
22. String output = "";
23. **try** {
24. **if** (con == **null**) {
25. **return** "Erro while Connecting to the databse for insering Please check your Database Connection";
26. }
27. String query = "INSERT INTO sensor (SENSOR\_ID,SENSOR\_STATUS,FLOOR\_NUMBER,ROOM\_NUMBER,SMOKE\_LEVEL,CO2\_LEVEL)VALUES(?,?,?,?,?,?)";
28. PreparedStatement statment = con.prepareStatement(query);
29. statment.setInt(1, sensorOb.getSENSOR\_ID());
30. statment.setString(2, sensorOb.getSENSOR\_STATUS());
31. statment.setString(3, sensorOb.getFLOOR\_NUMBER());
32. statment.setString(4, sensorOb.getROOM\_NUMBER());
33. statment.setInt(5, sensorOb.getSMOKE\_LEVEL());
34. statment.setInt(6, sensorOb.getCO2\_LEVEL());
35. statment.execute();
36. con.close();
37. output = "Insert Suceses";
38. } **catch** (Exception e) {
39. output = "Erro while Inserting to Databse";
40. System.***err***.println(e.getMessage());
41. }
42. **return** output;
43. }
44. **public** String ReadSesor() {
45. **try** {
46. **if** (con == **null**) {
47. System.***err***.println(
48. "Erro while Connecting to the databse for insering Please check your Database Connection");
49. }
50. String query = "SELECT SENSOR\_ID,SENSOR\_STATUS,FLOOR\_NUMBER,ROOM\_NUMBER,SMOKE\_LEVEL,CO2\_LEVEL FROM sensor";
51. Statement st = con.createStatement();
52. ResultSet rs = st.executeQuery(query);
53. **while** (rs.next()) {
54. SensorModel sensor = **new** SensorModel();
55. sensor.setSENSOR\_ID(rs.getInt("SENSOR\_ID"));
56. sensor.setSENSOR\_STATUS(rs.getString("SENSOR\_STATUS"));
57. sensor.setFLOOR\_NUMBER(rs.getString("FLOOR\_NUMBER"));
58. sensor.setROOM\_NUMBER(rs.getString("ROOM\_NUMBER"));
59. sensor.setSMOKE\_LEVEL(rs.getInt("SMOKE\_LEVEL"));
60. sensor.setCO2\_LEVEL(rs.getInt("CO2\_LEVEL"));
61. SensorList.add(sensor);
62. }
63. con.close();
64. } **catch** (Exception e) {
65. System.***err***.println(e.getMessage());
66. }
67. System.***out***.println("View All Sensores Sucess");
69. String json = **new** Gson().toJson(SensorList);
71. **return** json;
72. // return SensorList;
73. }
75. **public** String UpdateSensore(SensorModel sensore) {
77. String Output = "";
78. **try** {
80. **if** (con == **null**) {
82. **return** "Erro while Connecting to the databse for insering Please check your Database Connection";
83. }
85. String query = "UPDATE sensor SET SENSOR\_STATUS = ?, FLOOR\_NUMBER = ?, ROOM\_NUMBER = ?, SMOKE\_LEVEL = ?, CO2\_LEVEL =? WHERE SENSOR\_ID = ?";
87. PreparedStatement statment = con.prepareStatement(query);
89. statment.setString(1, sensore.getSENSOR\_STATUS());
90. statment.setString(2, sensore.getFLOOR\_NUMBER());
91. statment.setString(3, sensore.getROOM\_NUMBER());
92. statment.setInt(4, sensore.getSMOKE\_LEVEL());
93. statment.setInt(5, sensore.getCO2\_LEVEL());
94. statment.setInt(6, sensore.getSENSOR\_ID());
96. statment.execute();
97. con.close();
98. Output = "Update Sucesss";
100. }**catch** (Exception e) {
101. Output = "Error while updating Sensore.";
102. System.***err***.println(e.getMessage());
104. }
106. **return** Output;
108. }


112. **public** String DeleteSesore(**int** SesoreId) {
114. String output="";
116. **try** {
118. **if** (con == **null**) {
119. **return** "Erro while Connecting to the databse for Deleting Please check your Database Connection";
120. }
122. String query = "DELETE FROM sensor WHERE SENSOR\_ID = ? ";
124. PreparedStatement statement = con.prepareStatement(query);
126. statement.setInt(1, SesoreId);
128. statement.execute();
129. con.close();
131. output = "Delete Sucess";
133. }**catch** (Exception e) {
135. output = "Error while deleting the item.";
136. System.***err***.println(e.getMessage());
138. }
140. **return** output;
142. }

145. }
146. Service Class

**package** service;

**import** javax.ws.rs.core.MediaType;

**import** java.awt.List;

**import** java.util.ArrayList;

**import** javax.ws.rs.Consumes;

**import** javax.ws.rs.DELETE;

**import** javax.ws.rs.FormParam;

**import** javax.ws.rs.GET;

**import** javax.ws.rs.POST;

**import** javax.ws.rs.PUT;

**import** javax.ws.rs.Path;

**import** javax.ws.rs.Produces;

//For JSON

**import** com.google.gson.\*;

**import** com.mysql.cj.xdevapi.JsonParser;

**import** controller.SensorController;

**import** model.SensorModel;

@Path("/AlamMonitor")

**public** **class** Service {

SensorController sensorContrl = **new** SensorController();

@GET

@Path("/")

@Produces(MediaType.***APPLICATION\_JSON***)

**public** String readSensore() {

**return** sensorContrl.ReadSesor();

}

@POST

@Path("/")

@Consumes(MediaType.***APPLICATION\_FORM\_URLENCODED***)

@Produces(MediaType.***TEXT\_PLAIN***)

**public** String InsertSensore(@FormParam("SENSOR\_ID")**int** SensoreId ,

@FormParam("SENSOR\_STATUS")String SensoreStatus, @FormParam("FLOOR\_NUMBER")String floorumber,

@FormParam("ROOM\_NUMBER")String roomnumber ,@FormParam("SMOKE\_LEVEL")**int** smokelevel ,

@FormParam("CO2\_LEVEL")**int** co2level) {

SensorModel sensOb = **new** SensorModel();

sensOb.setSENSOR\_ID(SensoreId);

sensOb.setSENSOR\_STATUS(SensoreStatus);

sensOb.setFLOOR\_NUMBER(floorumber);

sensOb.setROOM\_NUMBER(roomnumber);

sensOb.setSMOKE\_LEVEL(smokelevel);

sensOb.setCO2\_LEVEL(co2level);

String output = sensorContrl.InsertSensor(sensOb);

**return** output;

}

@PUT

@Path("/")

@Consumes(MediaType.***APPLICATION\_FORM\_URLENCODED***)

@Produces(MediaType.***TEXT\_PLAIN***)

**public** String UpdateSensore(@FormParam("SENSOR\_ID")**int** SensoreId ,

@FormParam("SENSOR\_STATUS")String SensoreStatus, @FormParam("FLOOR\_NUMBER")String floorumber,

@FormParam("ROOM\_NUMBER")String roomnumber ,@FormParam("SMOKE\_LEVEL")**int** smokelevel ,

@FormParam("CO2\_LEVEL")**int** co2level) {

SensorModel sensOb = **new** SensorModel();

sensOb.setSENSOR\_ID(SensoreId);

sensOb.setSENSOR\_STATUS(SensoreStatus);

sensOb.setFLOOR\_NUMBER(floorumber);

sensOb.setROOM\_NUMBER(roomnumber);

sensOb.setSMOKE\_LEVEL(smokelevel);

sensOb.setCO2\_LEVEL(co2level);

String output = sensorContrl.UpdateSensore(sensOb);

**return** output;

}

@DELETE

@Path("/")

@Consumes(MediaType.***APPLICATION\_FORM\_URLENCODED***)

@Produces(MediaType.***TEXT\_PLAIN***)

**public** String DeleteSensore(@FormParam("SENSOR\_ID")**int** SensoreId ) {

String Output = sensorContrl.DeleteSesore(SensoreId);

**return** Output;

}

}

**WEB Client**

1. FetchData class

import ***React***, {Component} from 'react';  
import {Col, Navbar, Row} from "react-bootstrap";  
import SensorTable from "./SensorTable";  
import Table from "react-bootstrap/Table";  
  
class FetchData extends Component {  
  
  
 state = {  
 sensors: [],  
 theme: null  
 };  
  
  
 async componentDidMount() {  
 this.intervalId = setInterval(() => this.getData(), 1000 \* 60 \* 10);  
 this.getData();  
  
 };  
  
  
 getData() {  
 const url = 'http://localhost:9090/API/Service/AlamMonitor';  
 fetch(url).then(response => response.json())  
 .then(sensors => (this.setState({sensors})));  
 ***console***.log(this.state.sensors[0]);  
 }  
  
 render() {  
 return (  
  
  
 <div>  
  
  
 <div>  
  
  
 <Navbar bg="dark" variant="dark">  
 <Navbar.Brand className=''>  
 Sensor Dashboard  
 </Navbar.Brand>  
 </Navbar>  
  
  
 <Row style={{width: '100%'}}>  
 <Col className="col-12 col-md-4 bg-success">  
 Active Normal Sensors  
 </Col>  
  
 <Col className="col-12 col-md-4 bg-danger">  
 Warning Sensors  
 </Col>  
  
 <Col className="col-12 col-md-4 bg-secondary">  
 Inactive Sensors  
 </Col>  
  
 </Row>  
  
  
 </div>  
  
  
 {/\*Card of Table contents\*/}  
  
  
 <div className="mainCompo">  
 <div className='card tableCard custom-scrollbar-css'>  
  
 <Table table-hover striped bordered responsive className="displayTable">  
 <thead>  
 <tr className="bg-primary">  
 <th>ID</th>  
 <th>Status</th>  
 <th>Floor Number</th>  
 <th>Room Number</th>  
 <th>Smoke Level</th>  
 <th>CO2 Level</th>  
 </tr>  
 </thead>  
 <tbody>  
 {  
  
 this.state.sensors.map((Sensor, index) =>  
 <SensorTable  
 id={Sensor.SENSOR\_ID}  
 status={Sensor.SENSOR\_STATUS}  
 floorNumber={Sensor.FLOOR\_NUMBER}  
 roomNumber={Sensor.ROOM\_NUMBER}  
 smokeLevel={Sensor.SMOKE\_LEVEL}  
 co2Level={Sensor.CO2\_LEVEL}  
 />  
 )  
 }  
  
 </tbody>  
 </Table>  
  
 </div>  
 </div>  
  
  
 </div>  
 );  
 }  
}  
  
export default FetchData;

1. Sesore Table

import ***React***, {Component} from 'react';  
import Table from 'react-bootstrap/Table'  
import {Badge} from "react-bootstrap";  
  
class SensorTable extends Component {  
 render() {  
 return (  
  
 <tr className='bg-info'>  
  
 <td>{this.props.id}</td>  
  
 <td className={this.props.status === '0'  
 ?  
 'td badge badge-pill badge-secondary'  
 :  
 this.props.status === '1' && this.props.co2Level <= 5 && this.props.smokeLevel <= 5  
 ?  
 'badge badge-pill badge-success'  
 :  
 'badge badge-pill badge-danger'  
 } style={{  
 'justify-content': 'center',  
 'align-item': 'center'  
 }}>  
 {this.props.status === "0"  
 ?  
 'Inactive'  
 : this.props ==="1" && this.props.co2Level > 5 || this.props.smokeLevel > 5  
 ?  
 'Warning'  
 :  
 'Active'  
  
 }  
  
 </td>  
  
  
 <td>{this.props.floorNumber}</td>  
  
 <td>{this.props.roomNumber}</td>  
  
 <td  
 className={this.props.status === '1' && this.props.smokeLevel <= 5  
 ?  
 'badge-success'  
 :  
 this.props.status === '1' && this.props.smokeLevel > 5  
 ?  
 'badge-danger'  
 :  
 'badge-secondary'  
 }  
  
 >  
  
 {  
 this.props.status === '1'  
 ?  
 this.props.smokeLevel  
 :  
 'NA'}</td>  
 <td  
 className={this.props.status === '1' && this.props.co2Level <= 5  
 ?  
 'badge-success'  
 :  
 this.props.status === '1' && this.props.co2Level > 5  
 ?  
 'badge-danger'  
 :  
 'badge-secondary'  
 }  
  
  
 >{  
 this.props.status === '1'  
 ?  
 this.props.co2Level  
 :  
 'NA'}</td>  
 </tr>  
  
  
 );  
 }  
}  
  
export default SensorTable;

**Dekstop Server**

1. AlarmMonitorServer Interface

/\*

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\* and open the template in the editor.

\*/

package server;

import java.rmi.Remote;

import java.util.HashMap;

/\*\*

\*

\* @author optane

\*/

public interface AlamMonitorServer extends Remote{

public String getSensor() throws Exception;

public String addSensor(HashMap<String, String> sensor) throws Exception;

public String editSensor(HashMap<String, String> sensor) throws Exception;

public String deleteSensor(int sensor\_id) throws Exception;

}

1. AlarmMonitorServerRemote class

/\*

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\*/

package server;

import java.io.BufferedReader;

import java.io.InputStreamReader;

import java.io.OutputStream;

import java.net.HttpURLConnection;

import java.net.URL;

import java.rmi.RemoteException;

import java.rmi.server.UnicastRemoteObject;

import java.util.HashMap;

/\*\*

\*

\* @author optane

\*/

public class AlarmMonitorServerRemote extends UnicastRemoteObject implements AlamMonitorServer {

protected AlarmMonitorServerRemote() throws RemoteException {

super();

// TODO Auto-generated constructor stub

}

@Override

public String getSensor() throws Exception {

URL obj = new URL("http://localhost:9090/API/Service/AlamMonitor");

HttpURLConnection getConnection = (HttpURLConnection) obj.openConnection();

getConnection.setRequestMethod("GET");

getConnection.setRequestProperty("Content-Type", "application/json");

int responseCode = getConnection.getResponseCode();

if (responseCode == 200) {

BufferedReader in = new BufferedReader(new InputStreamReader(getConnection.getInputStream()));

String inputLine;

StringBuffer content = new StringBuffer();

while ((inputLine = in.readLine()) != null) {

content.append(inputLine);

}

in.close();

return content.toString();

} else {

return "Error";

}

}

@Override

public String addSensor(HashMap<String, String> sensor) throws Exception {

final String ADD\_SENSOR\_PARAMS = "{\n" + "\"SENSOR\_STATUS\":"+"\""+sensor.get("SENSOR\_STATUS")+"\",\r\n" +

" \"FLOOR\_NUMBER\":"+"\""+sensor.get("FLOOR\_NUMBER")+"\",\r\n" +

" \"ROOM\_NUMBER\":"+"\""+sensor.get("ROOM\_NUMBER")+"\",\r\n" +

" \"SMOKE\_LEVEL\":"+"\""+sensor.get("SMOKE\_LEVEL")+"\",\r\n" +

" \"CO2\_LEVEL\":"+"\""+ sensor.get("CO2\_LEVEL") +"\"\n}";

System.out.println(ADD\_SENSOR\_PARAMS);

URL obj = new URL("http://localhost:9090/API/Service/AlamMonitor");

HttpURLConnection postConnection = (HttpURLConnection) obj.openConnection();

postConnection.setRequestMethod("POST");

//postConnection.setRequestProperty("Content-Type", "application/json");

postConnection.setDoOutput(true);

OutputStream os = postConnection.getOutputStream();

os.write(ADD\_SENSOR\_PARAMS.getBytes());

os.flush();

os.close();

int responseCode = postConnection.getResponseCode();

//handle connection error

if (responseCode == 200) {

System.out.println("Inserted successfully");

return "Inserted successfully";

} else {

System.out.println("error");

return "Error";

}

}

@Override

public String editSensor(HashMap<String, String> sensor) throws Exception {

final String EDIT\_SENSOR\_PARAMS = "{\n" + "\"SENSOR\_ID\": " + sensor.get("SENSOR\_ID") + ",\r\n" +

" \"SENSOR\_STATUS\": " + sensor.get("SENSOR\_STATUS") + ",\r\n}" +

" \"FLOOR\_NUMBER\": " + sensor.get("FLOOR\_NUMBER") + ",\r\n}" +

" \"ROOM\_NUMBER\": " + sensor.get("ROOM\_NUMBER") + ",\r\n}" +

" \"SMOKE\_LEVEL\": " + sensor.get("SMOKE\_LEVEL") + ",\r\n}" +

" \"CO2\_LEVEL\": " + sensor.get("CO2\_LEVEL") + "\n}";

URL obj = new URL("http://localhost:9090/API/Service/AlamMonitor");

HttpURLConnection postConnection = (HttpURLConnection) obj.openConnection();

postConnection.setRequestMethod("PUT");

postConnection.setRequestProperty("Content-Type", "application/json");

postConnection.setDoOutput(true);

OutputStream os = postConnection.getOutputStream();

os.write(EDIT\_SENSOR\_PARAMS.getBytes());

os.flush();

os.close();

int responseCode = postConnection.getResponseCode();

//handle connection error

if (responseCode == 200) {

return "Updated successfully";

} else {

return "Error";

}

}

@Override

public String deleteSensor(int sensor\_id) throws Exception {

final String EDIT\_SENSOR\_PARAMS = "{\n" + "\"SENSOR\_ID\": " + sensor\_id + "\n";

URL obj = new URL("http://localhost:9090/API/Service/AlamMonitor");

HttpURLConnection postConnection = (HttpURLConnection) obj.openConnection();

postConnection.setRequestMethod("DELETE");

postConnection.setRequestProperty("Content-Type", "application/json");

postConnection.setDoOutput(true);

OutputStream os = postConnection.getOutputStream();

os.write(EDIT\_SENSOR\_PARAMS.getBytes());

os.flush();

os.close();

int responseCode = postConnection.getResponseCode();

//handle connection error

if (responseCode == 200) {

return "Deleted successfully";

} else {

return "Error";

}

}

}

1. DesktopServer Class

/\*

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\* and open the template in the editor.

\*/

package server;

import java.rmi.Naming;

import java.rmi.registry.LocateRegistry;

import java.rmi.registry.Registry;

/\*\*

\*

\* @author optane

\*/

public class DesktopServer {

/\*\*

\* @param args the command line arguments

\*/

public static void main(String[] args) {

// TODO code application logic here

try {

AlamMonitorServer stub = (AlamMonitorServer) new AlarmMonitorServerRemote();

//binding the AlarmMonitorServerRemote object to the RMI

Naming.rebind("rmi://localhost/5000", stub);

System.out.println("Server started");

} catch (Exception e) {

// TODO: handle exception

e.printStackTrace();

}

}

}

**Dekstop Client**

1. SensorModel Class

/\*

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\* and open the template in the editor.

\*/

package model;

/\*\*

\*

\* @author optane

\*/

public class SensorModel {

int SensorId;

String SesorStatus;

String FloorNumber;

String RoomNumber;

int SmokeLevel;

int Co2Level;

public SensorModel() {

}

public SensorModel(int SensorId, String SesorStatus, String FloorNumber, String RoomNumber, int SmokeLevel, int Co2Level) {

this.SensorId = SensorId;

this.SesorStatus = SesorStatus;

this.FloorNumber = FloorNumber;

this.RoomNumber = RoomNumber;

this.SmokeLevel = SmokeLevel;

this.Co2Level = Co2Level;

}

public int getSensorId() {

return SensorId;

}

public void setSensorId(int SensorId) {

this.SensorId = SensorId;

}

public String getSesorStatus() {

return SesorStatus;

}

public void setSesorStatus(String SesorStatus) {

this.SesorStatus = SesorStatus;

}

public String getFloorNumber() {

return FloorNumber;

}

public void setFloorNumber(String FloorNumber) {

this.FloorNumber = FloorNumber;

}

public String getRoomNumber() {

return RoomNumber;

}

public void setRoomNumber(String RoomNumber) {

this.RoomNumber = RoomNumber;

}

public int getSmokeLevel() {

return SmokeLevel;

}

public void setSmokeLevel(int SmokeLevel) {

this.SmokeLevel = SmokeLevel;

}

public int getCo2Level() {

return Co2Level;

}

public void setCo2Level(int Co2Level) {

this.Co2Level = Co2Level;

}

}

1. AlamMonitorServer Interface

/\*

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\*/

package server;

import java.rmi.Remote;

import java.util.HashMap;

/\*\*

\*

\* @author optane

\*/

public interface AlamMonitorServer extends Remote{

public String getSensor() throws Exception;

public String addSensor(HashMap<String, String> sensor) throws Exception;

public String editSensor(HashMap<String, String> sensor) throws Exception;

public String deleteSensor(int sensor\_id) throws Exception;

}

1. AlarmMonitorSystem Class

/\*

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\* and open the template in the editor.

\*/

package server;

import com.view.Home;

import java.beans.Visibility;

/\*\*

\*

\* @author optane

\*/

public class AlarmMonitorSystem {

/\*\*

\* @param args the command line arguments

\*/

public static void main(String[] args) {

// TODO code application logic here

new Home().setVisible(true);

}

}

1. ClientMain Class

/\*

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\* and open the template in the editor.

\*/

package server;

import java.rmi.Naming;

import java.util.ArrayList;

import java.util.HashMap;

import model.SensorModel;

import org.json.JSONArray;

import org.json.JSONObject;

/\*\*

\*

\* @author optane

\*/

public class ClientMain {

AlamMonitorServer service;

public static ArrayList<SensorModel> sensoreIntialList ;

public ArrayList<SensorModel> getSensoreList(){

ArrayList<SensorModel> List = new ArrayList<>();

try{

service = (AlamMonitorServer) Naming.lookup("rmi://localhost/5000");

String output = service.getSensor();

System.out.println(output);

JSONArray array = new JSONArray(output);

for(int i = 0 ; i < array.length() ; i++){

SensorModel model = new SensorModel();

model.setSensorId(array.getJSONObject(i).getInt("SENSOR\_ID"));

model.setSesorStatus(array.getJSONObject(i).getString("SENSOR\_STATUS"));

model.setFloorNumber(array.getJSONObject(i).getString("FLOOR\_NUMBER"));

model.setRoomNumber(array.getJSONObject(i).getString("ROOM\_NUMBER"));

model.setSmokeLevel(array.getJSONObject(i).getInt("SMOKE\_LEVEL"));

model.setCo2Level(array.getJSONObject(i).getInt("CO2\_LEVEL"));

List.add(model);

}

}catch(Exception e){

e.printStackTrace();

}

return List;

}

//call the server to add the sensor details

public void AddSensorDetails(HashMap<String, String> sensor) {

try {

service = (AlamMonitorServer) Naming.lookup("rmi://localhost/5000");

String val = service.addSensor(sensor);

System.out.println(val);

} catch (Exception e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

}

//call the server to edit the sensor details

public void EditSensorDetails(HashMap<String, String> sensor) {

try {

service = (AlamMonitorServer) Naming.lookup("rmi://localhost/5000");

service.editSensor(sensor);

} catch (Exception e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

}

//call the server to delete the sensor details

public void DeleteSensor(int sensor\_id) {

try {

service = (AlamMonitorServer) Naming.lookup("rmi://localhost/5000");

service.deleteSensor(sensor\_id);

} catch (Exception e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

}

}

1. AdminHome Classs

/\*

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\* and open the template in the editor.

\*/

package com.view;

import server.ClientMain;

import java.awt.Color;

import java.awt.Component;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.util.ArrayList;

import java.util.HashMap;

import javax.swing.JOptionPane;

import javax.swing.JTable;

import javax.swing.Timer;

import javax.swing.table.DefaultTableModel;

import javax.swing.table.TableCellRenderer;

import javax.swing.table.TableModel;

import model.SensorModel;

/\*\*

\*

\* @author optane

\*/

public class AdminHome extends javax.swing.JFrame {

private ClientMain clientMain = new ClientMain();

private Timer timer;

/\*\*

\* Creates new form AdminHome

\*/

public AdminHome() {

initComponents();

inisialize();

}

/\*\*

\* This method is called from within the constructor to initialize the form.

\* WARNING: Do NOT modify this code. The content of this method is always

\* regenerated by the Form Editor.

\*/

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jLabel2 = new javax.swing.JLabel();

jPanel2 = new javax.swing.JPanel();

updateButton = new javax.swing.JButton();

deleteButton = new javax.swing.JButton();

jLabel3 = new javax.swing.JLabel();

jPanel1 = new javax.swing.JPanel();

floorNumbertextField = new javax.swing.JTextField();

jLabel1 = new javax.swing.JLabel();

jLabel4 = new javax.swing.JLabel();

RoomNumberTextFeild = new javax.swing.JTextField();

jButton1 = new javax.swing.JButton();

jLabel5 = new javax.swing.JLabel();

jScrollPane1 = new javax.swing.JScrollPane();

jTable1 = new javax.swing.JTable();

jLabel6 = new javax.swing.JLabel();

jLabel2.setFont(new java.awt.Font("Tahoma", 0, 36)); // NOI18N

jLabel2.setText("Fire Alarm Monito System");

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jPanel2.setBackground(new java.awt.Color(0, 0, 0));

updateButton.setBackground(new java.awt.Color(0, 51, 204));

updateButton.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

updateButton.setText("UPDATE");

updateButton.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

updateButtonActionPerformed(evt);

}

});

deleteButton.setBackground(new java.awt.Color(0, 51, 204));

deleteButton.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

deleteButton.setText("DELETE");

deleteButton.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

deleteButtonActionPerformed(evt);

}

});

jLabel3.setFont(new java.awt.Font("Monospaced", 1, 48)); // NOI18N

jLabel3.setForeground(new java.awt.Color(51, 51, 255));

jLabel3.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);

jLabel3.setText("Fire Alarm Monitor");

jPanel1.setBackground(new java.awt.Color(51, 51, 255));

floorNumbertextField.setFont(new java.awt.Font("Arial", 0, 18)); // NOI18N

jLabel1.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

jLabel1.setText("Floor Number");

jLabel4.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

jLabel4.setText("Room Number");

RoomNumberTextFeild.setFont(new java.awt.Font("Arial", 0, 18)); // NOI18N

jButton1.setBackground(new java.awt.Color(102, 153, 255));

jButton1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jButton1.setForeground(new java.awt.Color(0, 0, 255));

jButton1.setText("Add");

jButton1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton1ActionPerformed(evt);

}

});

jLabel5.setFont(new java.awt.Font("MS UI Gothic", 1, 24)); // NOI18N

jLabel5.setText("Add Sesore");

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);

jPanel1.setLayout(jPanel1Layout);

jPanel1Layout.setHorizontalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addContainerGap()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addComponent(jLabel1)

.addGap(18, 18, 18)

.addComponent(floorNumbertextField, javax.swing.GroupLayout.PREFERRED\_SIZE, 220, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jLabel4)

.addGap(36, 36, 36)

.addComponent(RoomNumberTextFeild, javax.swing.GroupLayout.PREFERRED\_SIZE, 220, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(26, 26, 26))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()

.addGap(0, 0, Short.MAX\_VALUE)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 223, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(344, 344, 344))))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel1Layout.createSequentialGroup()

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jLabel5, javax.swing.GroupLayout.PREFERRED\_SIZE, 133, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(381, 381, 381))

);

jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addContainerGap()

.addComponent(jLabel5, javax.swing.GroupLayout.DEFAULT\_SIZE, 32, Short.MAX\_VALUE)

.addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(floorNumbertextField, javax.swing.GroupLayout.PREFERRED\_SIZE, 46, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel1)

.addComponent(jLabel4)

.addComponent(RoomNumberTextFeild, javax.swing.GroupLayout.PREFERRED\_SIZE, 46, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(43, 43, 43)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 41, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap())

);

jTable1.setModel(new javax.swing.table.DefaultTableModel(

new Object [][] {

{null, null, null, null, null, null},

{null, null, null, null, null, null},

{null, null, null, null, null, null},

{null, null, null, null, null, null}

},

new String [] {

"SENSOR\_ID", "SENSOR\_STATUS", "FLOOR\_NUMBER", "ROOM\_NUMBER", "SMOKE\_LEVEL", "CO2\_LEVEL"

}

) {

Class[] types = new Class [] {

java.lang.Integer.class, java.lang.String.class, java.lang.String.class, java.lang.String.class, java.lang.Integer.class, java.lang.Integer.class

};

public Class getColumnClass(int columnIndex) {

return types [columnIndex];

}

});

jTable1.setRowHeight(30);

jTable1.setRowMargin(3);

jScrollPane1.setViewportView(jTable1);

jLabel6.setIcon(new javax.swing.ImageIcon(getClass().getResource("/com/view/bell.png"))); // NOI18N

javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);

jPanel2.setLayout(jPanel2Layout);

jPanel2Layout.setHorizontalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel2Layout.createSequentialGroup()

.addContainerGap()

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel2Layout.createSequentialGroup()

.addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addContainerGap())

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel2Layout.createSequentialGroup()

.addGap(0, 33, Short.MAX\_VALUE)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel2Layout.createSequentialGroup()

.addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(jLabel3)

.addGap(210, 210, 210))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel2Layout.createSequentialGroup()

.addComponent(updateButton, javax.swing.GroupLayout.PREFERRED\_SIZE, 121, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(121, 121, 121)

.addComponent(deleteButton, javax.swing.GroupLayout.PREFERRED\_SIZE, 121, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(26, 26, 26))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel2Layout.createSequentialGroup()

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 873, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(38, 38, 38))))))

);

jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel2Layout.createSequentialGroup()

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel2Layout.createSequentialGroup()

.addContainerGap()

.addComponent(jLabel3))

.addGroup(jPanel2Layout.createSequentialGroup()

.addGap(29, 29, 29)

.addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED\_SIZE, 37, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGap(26, 26, 26)

.addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(28, 28, 28)

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 239, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(deleteButton, javax.swing.GroupLayout.DEFAULT\_SIZE, 50, Short.MAX\_VALUE)

.addComponent(updateButton, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

.addContainerGap())

);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

);

pack();

}// </editor-fold>

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

jButton1.addActionListener(new ActionListener() {

@Override

public void actionPerformed(ActionEvent e) {

HashMap<String, String> rows = new HashMap<String, String>();

// rows.put("SENSOR\_ID", "");

rows.put("SENSOR\_STATUS", "A");

rows.put("FLOOR\_NUMBER", floorNumbertextField.getText().toString());

rows.put("ROOM\_NUMBER", RoomNumberTextFeild.getText().toString());

rows.put("SMOKE\_LEVEL", "0");

rows.put("CO2\_LEVEL" , "0");

clientMain.AddSensorDetails(rows);

//System.out.println(rows);

}

});

}

private void updateButtonActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

if(jTable1.getSelectedRow() != 0){

int selctedRowIndex = jTable1.getSelectedRow();

HashMap<String, String> rows = new HashMap<String, String>();

rows.put("SENSORE\_ID", jTable1.getModel().getValueAt(selctedRowIndex, 0).toString());

rows.put("SENSORE\_STATUS", jTable1.getModel().getValueAt(selctedRowIndex, 1).toString());

rows.put("FLOOR\_NUMBER", jTable1.getModel().getValueAt(selctedRowIndex, 2).toString());

rows.put("ROOM\_NUMBER", jTable1.getModel().getValueAt(selctedRowIndex, 3).toString());

rows.put("SMOKE\_LEVEL", jTable1.getModel().getValueAt(selctedRowIndex, 4).toString());

rows.put("CO2\_LEVEL", jTable1.getModel().getValueAt(selctedRowIndex, 5).toString());

Edit.EditSensore(rows);

this.dispose();

}

else{

JOptionPane.showMessageDialog(null, "Please Select the Row");

}

RoomNumberTextFeild.setText("");

floorNumbertextField.setText("");

}

private void deleteButtonActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

int selctedRowIndex = jTable1.getSelectedRow();

String SensorId = jTable1.getModel().getValueAt(selctedRowIndex, 0).toString();

clientMain.DeleteSensor(Integer.parseInt(SensorId));

JOptionPane.showMessageDialog(null, "Delete Sucessfull");

}

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

/\* Set the Nimbus look and feel \*/

//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

/\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

\* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

\*/

try {

for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {

if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());

break;

}

}

} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(AdminHome.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(AdminHome.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(AdminHome.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(AdminHome.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

//</editor-fold>

/\* Create and display the form \*/

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new AdminHome().setVisible(true);

}

});

}

private void inisialize(){

jTable1 = executeTable();

//

//

}

public JTable executeTable(){

Object[] columns = new String[]{

"SENSOR\_ID", "SENSOR\_STATUS", "FLOOR\_NUMBER", "ROOM\_NUMBER", "SMOKE\_LEVEL", "CO2\_LEVEL"

};

ArrayList<SensorModel> list = clientMain.getSensoreList();

Object[][] data = new Object[list.size()][6];

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

data[i][0] = list.get(i).getSensorId();

data[i][1] = list.get(i).getSesorStatus();

data[i][2] = list.get(i).getFloorNumber();

data[i][3] = list.get(i).getRoomNumber();

data[i][4] = list.get(i).getSmokeLevel();

data[i][5] = list.get(i).getCo2Level();

}

TableModel tablemodel = new DefaultTableModel(data, columns);

jTable1.setModel(tablemodel);

return jTable1;

}

public void refreshTimer() {

timer= new Timer(0, new ActionListener() {

@Override

public void actionPerformed(ActionEvent e) {

ArrayList<SensorModel> SensoreLIst = new ArrayList<SensorModel>();

Object[] columns = new String[] {

"SENSOR\_ID", "SENSOR\_STATUS", "FLOOR\_NUMBER", "ROOM\_NUMBER", "SMOKE\_LEVEL", "CO2\_LEVEL"

};

ArrayList<SensorModel> arrayList = clientMain.getSensoreList();

Object[][] data = new Object[arrayList.size()][6];

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

data[i][0] = arrayList.get(i).getSensorId();

data[i][1] = arrayList.get(i).getSesorStatus();

data[i][2] = arrayList.get(i).getFloorNumber();

data[i][3] = arrayList.get(i).getRoomNumber();

data[i][4] = arrayList.get(i).getSmokeLevel();

data[i][5] = arrayList.get(i).getCo2Level();

}

TableModel tablemodel = new DefaultTableModel(data, columns);

jTable1.removeAll();

jTable1.setModel(tablemodel);

System.out.println("REFRESHED");

}});

timer.setDelay(10000); // delay for 5 seconds

timer.start();

}

// Variables declaration - do not modify

private javax.swing.JTextField RoomNumberTextFeild;

private javax.swing.JButton deleteButton;

private javax.swing.JTextField floorNumbertextField;

private javax.swing.JButton jButton1;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

private javax.swing.JLabel jLabel4;

private javax.swing.JLabel jLabel5;

private javax.swing.JLabel jLabel6;

private javax.swing.JPanel jPanel1;

private javax.swing.JPanel jPanel2;

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JTable jTable1;

private javax.swing.JButton updateButton;

// End of variables declaration

}

1. Home Class

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package com.view;

import server.ClientMain;

import java.awt.BorderLayout;

import java.awt.Color;

import java.awt.Component;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.sql.Time;

import java.util.ArrayList;

import javax.swing.Timer;

import javax.swing.JFrame;

import javax.swing.JTable;

import javax.swing.WindowConstants;

import javax.swing.table.DefaultTableModel;

import javax.swing.table.TableCellRenderer;

import javax.swing.table.TableModel;

import model.SensorModel;

/\*\*

\*

\* @author optane

\*/

public class Home extends javax.swing.JFrame {

private ClientMain clientMain = new ClientMain();

private Timer timer;

ArrayList<SensorModel> MainLIst;

private JTable Table;

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

/\* Set the Nimbus look and feel \*/

//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

/\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

\* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

\*/

try {

for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {

if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());

break;

}

}

} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(Home.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Home.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Home.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Home.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

//</editor-fold>

/\* Create and display the form \*/

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new Home().setVisible(true);

}

});

}

/\*\*

\* Creates new form Home

\*/

public Home() {

initComponents();

initialize();

}

/\*\*

\* This method is called from within the constructor to initialize the form.

\* WARNING: Do NOT modify this code. The content of this method is always

\* regenerated by the Form Editor.

\*/

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jPanel1 = new javax.swing.JPanel();

jButton1 = new javax.swing.JButton();

jLabel1 = new javax.swing.JLabel();

jPanel2 = new javax.swing.JPanel();

jScrollPane1 = new javax.swing.JScrollPane();

jTable1 = new javax.swing.JTable();

jLabel2 = new javax.swing.JLabel();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

setBackground(java.awt.Color.black);

jPanel1.setBackground(new java.awt.Color(0, 0, 0));

jButton1.setBackground(new java.awt.Color(0, 0, 255));

jButton1.setText("LOG IN");

jButton1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton1ActionPerformed(evt);

}

});

jLabel1.setFont(new java.awt.Font("Monospaced", 1, 48)); // NOI18N

jLabel1.setForeground(new java.awt.Color(51, 51, 255));

jLabel1.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);

jLabel1.setText("Fire Alarm Monitor");

jPanel2.setBackground(new java.awt.Color(0, 0, 255));

jPanel2.setForeground(new java.awt.Color(0, 0, 255));

jTable1.setBorder(javax.swing.BorderFactory.createEtchedBorder());

jTable1.setModel(new javax.swing.table.DefaultTableModel(

new Object [][] {

{null, null, null, null, null, null},

{null, null, null, null, null, null},

{null, null, null, null, null, null},

{null, null, null, null, null, null}

},

new String [] {

"SENSOR\_ID", "SENSOR\_STATUS", "FLOOR\_NUMBER", "ROOM\_NUMBER", "SMOKE\_LEVEL", "CO2\_LEVEL"

}

) {

Class[] types = new Class [] {

java.lang.Integer.class, java.lang.String.class, java.lang.String.class, java.lang.String.class, java.lang.Integer.class, java.lang.Integer.class

};

public Class getColumnClass(int columnIndex) {

return types [columnIndex];

}

});

jTable1.setRowHeight(30);

jTable1.addComponentListener(new java.awt.event.ComponentAdapter() {

public void componentHidden(java.awt.event.ComponentEvent evt) {

jTable1ComponentHidden(evt);

}

});

jScrollPane1.setViewportView(jTable1);

javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);

jPanel2.setLayout(jPanel2Layout);

jPanel2Layout.setHorizontalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel2Layout.createSequentialGroup()

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 954, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap())

);

jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel2Layout.createSequentialGroup()

.addGap(48, 48, 48)

.addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED\_SIZE, 322, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(62, Short.MAX\_VALUE))

);

jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/com/view/bell.png"))); // NOI18N

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);

jPanel1.setLayout(jPanel1Layout);

jPanel1Layout.setHorizontalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addContainerGap()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addGroup(jPanel1Layout.createSequentialGroup()

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 151, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(61, 61, 61)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 52, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(jLabel1)

.addGap(0, 0, Short.MAX\_VALUE)))

.addContainerGap())

);

jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addGap(21, 21, 21)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 49, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED\_SIZE, 51, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGroup(jPanel1Layout.createSequentialGroup()

.addGap(32, 32, 32)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 39, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGap(60, 60, 60)

.addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(67, Short.MAX\_VALUE))

);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

);

pack();

}// </editor-fold>

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

LogIn login = new LogIn();

login.setVisible(true);

this.dispose();

}

private void jTable1ComponentHidden(java.awt.event.ComponentEvent evt) {

// TODO add your handling code here:

}

private void initialize(){

//setting the table

jTable1 = executeTable();

refreshTimer();

}

public JTable executeTable(){

MainLIst = new ArrayList<SensorModel>();

Object[] columns = new String[]{

"SENSOR\_ID", "SENSOR\_STATUS", "FLOOR\_NUMBER", "ROOM\_NUMBER", "SMOKE\_LEVEL", "CO2\_LEVEL"

};

ArrayList<SensorModel> list = clientMain.getSensoreList();

Object[][] data = new Object[list.size()][6];

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

data[i][0] = list.get(i).getSensorId();

data[i][1] = list.get(i).getSesorStatus();

data[i][2] = list.get(i).getFloorNumber();

data[i][3] = list.get(i).getRoomNumber();

data[i][4] = list.get(i).getSmokeLevel();

data[i][5] = list.get(i).getCo2Level();

if((list.get(i).getCo2Level() >= 5 ) || (list.get(i).getSmokeLevel() >= 5)){

MainLIst.add(list.get(i));

}

}

TableModel tablemodel = new DefaultTableModel(data, columns);

jTable1.setModel(tablemodel);

return jTable1 ;

}

public void refreshTimer() {

timer= new Timer(0, new ActionListener() {

@Override

public void actionPerformed(ActionEvent e) {

ArrayList<SensorModel> SensoreLIst = new ArrayList<SensorModel>();

Object[] columns = new String[] {

"SENSOR\_ID", "SENSOR\_STATUS", "FLOOR\_NUMBER", "ROOM\_NUMBER", "SMOKE\_LEVEL", "CO2\_LEVEL"

};

ArrayList<SensorModel> arrayList = clientMain.getSensoreList();

Object[][] data = new Object[arrayList.size()][6];

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

data[i][0] = arrayList.get(i).getSensorId();

data[i][1] = arrayList.get(i).getSesorStatus();

data[i][2] = arrayList.get(i).getFloorNumber();

data[i][3] = arrayList.get(i).getRoomNumber();

data[i][4] = arrayList.get(i).getSmokeLevel();

data[i][5] = arrayList.get(i).getCo2Level();

}

TableModel tablemodel = new DefaultTableModel(data, columns);

jTable1.removeAll();

jTable1.setModel(tablemodel);

System.out.println("REFRESHED");

}});

timer.setDelay(10000); // delay for 5 seconds

timer.start();

}

// Variables declaration - do not modify

private javax.swing.JButton jButton1;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JPanel jPanel1;

private javax.swing.JPanel jPanel2;

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JTable jTable1;

// End of variables declaration

}

1. Edit Class

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package com.view;

import server.ClientMain;

import java.awt.event.ActionEvent;

import java.awt.event.ActionListener;

import java.util.HashMap;

import javax.swing.JOptionPane;

/\*\*

\*

\* @author optane

\*/

public class Edit extends javax.swing.JFrame {

private ClientMain clientMain = new ClientMain();

/\*\*

\* Creates new form Edit

\*/

public Edit() {

initComponents();

}

public Edit(HashMap<String, String> sensor){

initComponents();

initialize(sensor);

}

/\*\*

\* This method is called from within the constructor to initialize the form.

\* WARNING: Do NOT modify this code. The content of this method is always

\* regenerated by the Form Editor.

\*/

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jPanel2 = new javax.swing.JPanel();

jLabel3 = new javax.swing.JLabel();

jPanel1 = new javax.swing.JPanel();

jTextField1 = new javax.swing.JTextField();

jLabel1 = new javax.swing.JLabel();

jLabel4 = new javax.swing.JLabel();

jTextField2 = new javax.swing.JTextField();

jLabel5 = new javax.swing.JLabel();

jTextField3 = new javax.swing.JTextField();

jLabel6 = new javax.swing.JLabel();

jTextField4 = new javax.swing.JTextField();

jLabel7 = new javax.swing.JLabel();

jLabel8 = new javax.swing.JLabel();

jButton1 = new javax.swing.JButton();

jTextField5 = new javax.swing.JTextField();

jTextField6 = new javax.swing.JTextField();

jButton2 = new javax.swing.JButton();

jLabel2 = new javax.swing.JLabel();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

jPanel2.setBackground(new java.awt.Color(0, 0, 0));

jLabel3.setFont(new java.awt.Font("Monospaced", 1, 48)); // NOI18N

jLabel3.setForeground(new java.awt.Color(0, 51, 255));

jLabel3.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);

jLabel3.setText("Fire Alarm Monitor");

jPanel1.setBackground(new java.awt.Color(51, 102, 255));

jTextField1.setFont(new java.awt.Font("Arial", 0, 18)); // NOI18N

jLabel1.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

jLabel1.setText("Sensor Id");

jLabel4.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

jLabel4.setText("Sensore Status");

jTextField2.setFont(new java.awt.Font("Arial", 0, 18)); // NOI18N

jLabel5.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

jLabel5.setText("Floor Number");

jTextField3.setFont(new java.awt.Font("Arial", 0, 18)); // NOI18N

jLabel6.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

jLabel6.setText("Room Number");

jTextField4.setFont(new java.awt.Font("Arial", 0, 18)); // NOI18N

jLabel7.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

jLabel7.setText("Smoke Level");

jLabel8.setFont(new java.awt.Font("Tahoma", 1, 18)); // NOI18N

jLabel8.setText("CO2 Level");

jButton1.setBackground(new java.awt.Color(102, 153, 255));

jButton1.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jButton1.setForeground(new java.awt.Color(0, 0, 255));

jButton1.setText("Edit");

jButton1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton1ActionPerformed(evt);

}

});

jButton2.setBackground(new java.awt.Color(102, 153, 255));

jButton2.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jButton2.setForeground(new java.awt.Color(0, 0, 255));

jButton2.setText("Exit");

jButton2.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton2ActionPerformed(evt);

}

});

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);

jPanel1.setLayout(jPanel1Layout);

jPanel1Layout.setHorizontalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addContainerGap()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel5)

.addComponent(jLabel1)

.addComponent(jLabel7))

.addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 223, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(200, 200, 200)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, 203, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(125, Short.MAX\_VALUE))

.addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(jTextField1, javax.swing.GroupLayout.DEFAULT\_SIZE, 220, Short.MAX\_VALUE)

.addComponent(jTextField3))

.addComponent(jTextField5, javax.swing.GroupLayout.PREFERRED\_SIZE, 85, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 70, Short.MAX\_VALUE)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel4)

.addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED\_SIZE, 135, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel8))

.addGap(31, 31, 31)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(jTextField2)

.addComponent(jTextField4, javax.swing.GroupLayout.DEFAULT\_SIZE, 220, Short.MAX\_VALUE))

.addComponent(jTextField6, javax.swing.GroupLayout.PREFERRED\_SIZE, 101, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(75, 75, 75))))

);

jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addGap(39, 39, 39)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, 46, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel1)

.addComponent(jLabel4)

.addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED\_SIZE, 46, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jLabel5)

.addComponent(jTextField3, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(jPanel1Layout.createSequentialGroup()

.addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED\_SIZE, 47, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(3, 3, 3)))

.addComponent(jTextField4, javax.swing.GroupLayout.PREFERRED\_SIZE, 48, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 39, Short.MAX\_VALUE)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jTextField6, javax.swing.GroupLayout.PREFERRED\_SIZE, 38, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel8))

.addGroup(jPanel1Layout.createSequentialGroup()

.addGap(2, 2, 2)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jTextField5, javax.swing.GroupLayout.PREFERRED\_SIZE, 36, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel7))))

.addGap(51, 51, 51)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(jButton1, javax.swing.GroupLayout.DEFAULT\_SIZE, 41, Short.MAX\_VALUE)

.addComponent(jButton2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

.addGap(23, 23, 23))

);

jLabel2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/com/view/bell.png"))); // NOI18N

javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);

jPanel2.setLayout(jPanel2Layout);

jPanel2Layout.setHorizontalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel2Layout.createSequentialGroup()

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel2Layout.createSequentialGroup()

.addGap(160, 160, 160)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 45, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(jLabel3))

.addGroup(jPanel2Layout.createSequentialGroup()

.addGap(22, 22, 22)

.addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addContainerGap(39, Short.MAX\_VALUE))

);

jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel2Layout.createSequentialGroup()

.addGroup(jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel2Layout.createSequentialGroup()

.addContainerGap()

.addComponent(jLabel3))

.addGroup(jPanel2Layout.createSequentialGroup()

.addGap(31, 31, 31)

.addComponent(jLabel2)))

.addGap(53, 53, 53)

.addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(54, Short.MAX\_VALUE))

);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jPanel2, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(0, 2, Short.MAX\_VALUE))

);

pack();

}// </editor-fold>

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

AdminHome adminhome = new AdminHome();

adminhome.setVisible(true);

this.dispose();

}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

jButton1.addActionListener(new ActionListener() {

@Override

public void actionPerformed(ActionEvent e) {

HashMap<String, String> rows = new HashMap<String, String>();

rows.put("SENSORE\_ID", jTextField1.getText());

rows.put("SENSORE\_STATUS", jTextField2.getText());

rows.put("FLOOR\_NUMBER", jTextField3.getText() );

rows.put("ROOM\_NUMBER", jTextField4.getText());

rows.put("SMOKE\_LEVEL", jTextField5.getText());

rows.put("CO2\_LEVEL" , jTextField6.getText());

clientMain.EditSensorDetails(rows);

JOptionPane.showMessageDialog(null, "Edit Sucessfull");

}

});

}

public void initialize(HashMap<String, String> sensor){

jTextField1.setText(sensor.get("SENSORE\_ID"));

jTextField2.setText(sensor.get("SENSORE\_STATUS"));

jTextField3.setText(sensor.get("FLOOR\_NUMBER"));

jTextField4.setText(sensor.get("ROOM\_NUMBER"));

jTextField5.setText(sensor.get("SMOKE\_LEVEL"));

jTextField6.setText(sensor.get("CO2\_LEVEL"));

}

public static void EditSensore(HashMap<String, String> sensor){

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new Edit(sensor).setVisible(true);

}

});

}

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

/\* Set the Nimbus look and feel \*/

//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

/\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

\* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

\*/

try {

for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {

if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());

break;

}

}

} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(Edit.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Edit.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Edit.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Edit.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

//</editor-fold>

/\* Create and display the form \*/

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new Edit().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton2;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

private javax.swing.JLabel jLabel4;

private javax.swing.JLabel jLabel5;

private javax.swing.JLabel jLabel6;

private javax.swing.JLabel jLabel7;

private javax.swing.JLabel jLabel8;

private javax.swing.JPanel jPanel1;

private javax.swing.JPanel jPanel2;

private javax.swing.JTextField jTextField1;

private javax.swing.JTextField jTextField2;

private javax.swing.JTextField jTextField3;

private javax.swing.JTextField jTextField4;

private javax.swing.JTextField jTextField5;

private javax.swing.JTextField jTextField6;

// End of variables declaration

}

1. LogIn Class

/\*

\* To change this license header, choose License Headers in Project Properties.

\* To change this template file, choose Tools | Templates

\* and open the template in the editor.

\*/

package com.view;

import javax.swing.JOptionPane;

import javax.swing.SwingUtilities;

/\*\*

\*

\* @author optane

\*/

public class LogIn extends javax.swing.JFrame {

/\*\*

\* Creates new form LogIn

\*/

public LogIn() {

initComponents();

}

/\*\*

\* This method is called from within the constructor to initialize the form.

\* WARNING: Do NOT modify this code. The content of this method is always

\* regenerated by the Form Editor.

\*/

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

jLabel1 = new javax.swing.JLabel();

jProgressBar1 = new javax.swing.JProgressBar();

jPanel1 = new javax.swing.JPanel();

jPanel3 = new javax.swing.JPanel();

jLabel2 = new javax.swing.JLabel();

jLabel6 = new javax.swing.JLabel();

jPanel2 = new javax.swing.JPanel();

jLabel7 = new javax.swing.JLabel();

jLabel3 = new javax.swing.JLabel();

jTextField2 = new javax.swing.JTextField();

jLabel4 = new javax.swing.JLabel();

jLabel5 = new javax.swing.JLabel();

jButton1 = new javax.swing.JButton();

jPasswordField1 = new javax.swing.JPasswordField();

jLabel1.setFont(new java.awt.Font("Tahoma", 0, 36)); // NOI18N

jLabel1.setText("Fire Alarm Monito System");

setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE\_ON\_CLOSE);

setTitle("login");

jPanel1.setBackground(new java.awt.Color(255, 255, 255));

jPanel1.setForeground(new java.awt.Color(0, 51, 204));

jPanel3.setBackground(new java.awt.Color(0, 0, 0));

jLabel2.setFont(new java.awt.Font("Monospaced", 1, 48)); // NOI18N

jLabel2.setForeground(new java.awt.Color(51, 51, 255));

jLabel2.setText("Fire Alarm Monitor");

jLabel6.setIcon(new javax.swing.ImageIcon(getClass().getResource("/com/view/bell.png"))); // NOI18N

jPanel2.setBackground(new java.awt.Color(51, 51, 255));

jPanel2.setBorder(javax.swing.BorderFactory.createBevelBorder(javax.swing.border.BevelBorder.RAISED));

jLabel7.setIcon(new javax.swing.ImageIcon(getClass().getResource("/com/view/user.png"))); // NOI18N

javax.swing.GroupLayout jPanel2Layout = new javax.swing.GroupLayout(jPanel2);

jPanel2.setLayout(jPanel2Layout);

jPanel2Layout.setHorizontalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel2Layout.createSequentialGroup()

.addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED\_SIZE, 488, Short.MAX\_VALUE)

.addContainerGap())

);

jPanel2Layout.setVerticalGroup(

jPanel2Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel2Layout.createSequentialGroup()

.addContainerGap()

.addComponent(jLabel7, javax.swing.GroupLayout.PREFERRED\_SIZE, 477, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(48, Short.MAX\_VALUE))

);

jLabel3.setFont(new java.awt.Font("Monospaced", 1, 36)); // NOI18N

jLabel3.setForeground(new java.awt.Color(255, 255, 255));

jLabel3.setHorizontalAlignment(javax.swing.SwingConstants.CENTER);

jLabel3.setText("LOGIN");

jTextField2.setBackground(new java.awt.Color(204, 204, 204));

jTextField2.setFont(new java.awt.Font("Tahoma", 0, 24)); // NOI18N

jTextField2.setBorder(javax.swing.BorderFactory.createLineBorder(new java.awt.Color(0, 0, 0)));

jTextField2.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jTextField2ActionPerformed(evt);

}

});

jLabel4.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel4.setForeground(new java.awt.Color(255, 255, 255));

jLabel4.setText("User Name ");

jLabel5.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N

jLabel5.setForeground(new java.awt.Color(255, 255, 255));

jLabel5.setText("Password");

jButton1.setBackground(new java.awt.Color(51, 51, 255));

jButton1.setFont(new java.awt.Font("Monospaced", 1, 18)); // NOI18N

jButton1.setText("LOGIN");

jButton1.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

jButton1ActionPerformed(evt);

}

});

jPasswordField1.setBackground(new java.awt.Color(204, 204, 204));

jPasswordField1.setBorder(javax.swing.BorderFactory.createEtchedBorder());

javax.swing.GroupLayout jPanel3Layout = new javax.swing.GroupLayout(jPanel3);

jPanel3.setLayout(jPanel3Layout);

jPanel3Layout.setHorizontalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel3Layout.createSequentialGroup()

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED\_SIZE, 46, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(jLabel2)

.addGap(222, 222, 222))

.addGroup(jPanel3Layout.createSequentialGroup()

.addContainerGap()

.addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel3Layout.createSequentialGroup()

.addGap(18, 18, 18)

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel3Layout.createSequentialGroup()

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jLabel5)

.addComponent(jLabel4, javax.swing.GroupLayout.PREFERRED\_SIZE, 93, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

.addGroup(jPanel3Layout.createSequentialGroup()

.addGap(84, 84, 84)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 229, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(168, 168, 168))

.addGroup(jPanel3Layout.createSequentialGroup()

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jTextField2, javax.swing.GroupLayout.Alignment.TRAILING)

.addComponent(jPasswordField1))

.addContainerGap())))

.addGroup(jPanel3Layout.createSequentialGroup()

.addGap(141, 141, 141)

.addComponent(jLabel3, javax.swing.GroupLayout.PREFERRED\_SIZE, 206, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(0, 0, Short.MAX\_VALUE))))

);

jPanel3Layout.setVerticalGroup(

jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel3Layout.createSequentialGroup()

.addContainerGap()

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED\_SIZE, 51, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jLabel6, javax.swing.GroupLayout.PREFERRED\_SIZE, 51, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGroup(jPanel3Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel3Layout.createSequentialGroup()

.addGap(68, 68, 68)

.addComponent(jLabel3)

.addGap(25, 25, 25)

.addComponent(jLabel4)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addComponent(jTextField2, javax.swing.GroupLayout.PREFERRED\_SIZE, 48, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(29, 29, 29)

.addComponent(jLabel5)

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addComponent(jPasswordField1, javax.swing.GroupLayout.PREFERRED\_SIZE, 50, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(39, 39, 39)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 40, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(181, Short.MAX\_VALUE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, jPanel3Layout.createSequentialGroup()

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jPanel2, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(21, 21, 21))))

);

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);

jPanel1.setLayout(jPanel1Layout);

jPanel1Layout.setHorizontalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jPanel3, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

);

jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jPanel3, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

);

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addContainerGap(36, Short.MAX\_VALUE)

.addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(27, 27, 27))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addContainerGap()

.addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

);

setSize(new java.awt.Dimension(1046, 809));

setLocationRelativeTo(null);

}// </editor-fold>

private void jTextField2ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

char[] Username = jPasswordField1.getPassword();

String Password = jTextField2.getText();

if(String.valueOf(Username).equals("admin")&& Password.equals("admin")){

AdminHome adminhome = new AdminHome();

adminhome.setVisible(true);

this.dispose();

}

else{

JOptionPane.showMessageDialog(null, "Invalid Login");

jPasswordField1.setText("");

jTextField2.setText("");

}

}

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

/\* Set the Nimbus look and feel \*/

//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

/\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

\* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

\*/

try {

for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {

if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());

break;

}

}

} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(LogIn.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(LogIn.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(LogIn.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(LogIn.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

//</editor-fold>

/\* Create and display the form \*/

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new LogIn().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton jButton1;

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel jLabel2;

private javax.swing.JLabel jLabel3;

private javax.swing.JLabel jLabel4;

private javax.swing.JLabel jLabel5;

private javax.swing.JLabel jLabel6;

private javax.swing.JLabel jLabel7;

private javax.swing.JPanel jPanel1;

private javax.swing.JPanel jPanel2;

private javax.swing.JPanel jPanel3;

private javax.swing.JPasswordField jPasswordField1;

private javax.swing.JProgressBar jProgressBar1;

private javax.swing.JTextField jTextField2;

// End of variables declaration

}