```java
package application;

import javafx.application.Application;
import javafx.stage.Screen;
import javafx.stage.Stage;
import javafx.scene.layout.BorderPane;
import javafx.scene.Parent;
import javafx.scene.Scene;
import javafx.scene.image.Image;
import javafx.fxml.FXMLLoader;
import javafx.geometry.Rectangle2D;


public class Main extends Application {

    private static Stage stage;

    //method to open Stage
    @Override
    public void start(Stage primaryStage) {

        try {

            stage = primaryStage;
            primaryStage.setResizable(false);
            BorderPane root =
            (BorderPane)FXMLLoader.load(getClass().getResource("LoginPage.fxml"));
            primaryStage.setTitle("Infirmary Management System");
            Scene scene = new Scene(root,800,600);
            primaryStage.getIcons().add( new Image("LogoIcon.png"));
            primaryStage.setScene(scene);
            primaryStage.show();

        }

        catch(Exception e) {
            e.printStackTrace();
        }
    }

    //method to change between different fxm files
    public void changeScene(String fxml) {

        try {
            //making other fmxl files non resizable and displaying it in the centre of the screen
            stage.setResizable(false);
            stage.setHeight(637.5999755859375);
            stage.setWidth(814.4000244140625);
            Rectangle2D primScreenBounds = Screen.getPrimary().getVisualBounds();
            stage.setX((primScreenBounds.getWidth() - stage.getWidth()) / 2);
            stage.setY((primScreenBounds.getHeight() - stage.getHeight()) / 2);
            Parent pane = FXMLLoader.load(getClass().getResource(fxml));
            stage.getScene().setRoot(pane);
        }

        catch (Exception e) {
            e.printStackTrace();
        }

    }

    //method to open fxml files that contains tables to show records
    public void showPatientRecords(String fxml) {

```

```java
64              try {
65                  Parent pane = FXMLLoader.load(getClass().getResource(fxml));
66                  stage.getScene().setRoot(pane);
67                  stage.setResizable(true);
68              }
69
70              catch (Exception e) {
71                  e.printStackTrace();
72              }
73
74          }
75
76          //main method
77          public static void main(String[] args) {
78              launch(args);
79          }
80      }
81
```

```java
1    package application;
2
3    import javafx.fxml.FXML;
4    import javafx.scene.control.*;
5    import javafx.event.ActionEvent;
6    import java.io.IOException;
7    import java.sql.*;
8
9    public class LoginPageController {
10
11        @FXML
12        private Button loginButton;
13        @FXML
14        private TextField usernameTextField;
15        @FXML
16        private PasswordField passwordField;
17
18        public void userLogin (ActionEvent event) throws IOException {
19            checkLogin();
20        }
21
22        //gets Username and Password from database and matches with the credentials entered
23        private void checkLogin() throws IOException {
24
25            Main m = new Main();
26
27            try {
28
29                Connection connection =
                 DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_system"
                 , "root", "root");
30                Statement statement = connection.createStatement();
31
32                String sql = "SELECT * from login_details where
                 username='"+usernameTextField.getText().toString()+"' and
                 password='"+passwordField.getText().toString()+"'";
33                ResultSet resultset = statement.executeQuery(sql);
34
35                if (resultset.next()) {
36
37                    Alert alert = new Alert(Alert.AlertType.INFORMATION);
38                    alert.setTitle("Login Message");
39                    alert.setHeaderText(null);
40                    alert.setContentText("Welcome, You have successfully logged in!");
41                    alert.showAndWait();
42
43                    m.changeScene("HomePage.fxml");
44                }
45
46                else if (usernameTextField.getText().isEmpty() &&
                 passwordField.getText().isEmpty()) {
47
48                    Alert alert = new Alert(Alert.AlertType.ERROR);
49                    alert.setTitle("Login Message");
50                    alert.setHeaderText(null);
51                    alert.setContentText("Please Enter Credentials!!");
52                    alert.showAndWait();
53
54                }
55
56                else {
57
58                    Alert alert = new Alert(Alert.AlertType.WARNING);
59                    alert.setTitle("Login Message");
```

```java
60                  alert.setHeaderText(null);
61                  alert.setContentText("Incorrect Credentials!!");
62                  alert.showAndWait();
63
64              }
65
66          resultset.close();
67          connection.close();
68
69          }
70
71      catch (SQLException ae) {
72
73          System.out.println("Error!!! Connection Failed");
74          ae.printStackTrace();
75
76          Alert alert = new Alert(Alert.AlertType.ERROR);
77          alert.setTitle("Error Message");
78          alert.setHeaderText(null);
79          alert.setContentText("ERROR Connecting to MySQL Database!!");
80          alert.showAndWait();
81
82      }
83
84
85
86      //login without using database
87      /* if (usernameTextField.getText().toString().equals("admin") &&
        passwordField.getText().toString().equals("admin")) {
88          messageLabel.setText("Login Successful!!");
89          m.changeScene("HomePage.fxml");
90      }
91
92      else if (usernameTextField.getText().isEmpty() && passwordField.getText().isEmpty()) {
93          messageLabel.setText("Please Enter Credentials!!");
94      }
95
96      else {
97          messageLabel.setText("Incorrect Credentials!!");
98      } */
99
100     }
101
102 }
103
```

```java
package application;

import javafx.event.ActionEvent;
import javafx.fxml.FXML;
import javafx.scene.control.Alert;
import javafx.scene.control.Button;
import javafx.scene.control.ButtonType;

import java.io.IOException;

public class HomePageController {

    @FXML
    private Button logoutButton;

    @FXML
    private Button newPatientButton;

    @FXML
    private Button patientRecordsButton;

    @FXML
    private Button medicineStockButton;

    //go back to login page with alert popup
    public void userLogout(ActionEvent event) throws IOException {

        Alert alert = new Alert(Alert.AlertType.CONFIRMATION);
        alert.setTitle("Logout");
        alert.setHeaderText(null);
        alert.setContentText("Are you sure you want to Logout?");
        if (alert.showAndWait().get() == ButtonType.OK){
            Main m = new Main();
            m.changeScene("LoginPage.fxml");
        }

    }

    //changing different scenes
    public void patientDetailsEntry(ActionEvent event) throws IOException {

        Main m = new Main();
        m.changeScene("SelectPatientEntryPage.fxml");

    }

    public void patientRecords(ActionEvent event) throws IOException {

        Main m = new Main();
        m.changeScene("SelectPatientRecordsPage.fxml");

    }

    public void medicineStock(ActionEvent event) throws IOException {

        Main m = new Main();
        m.changeScene("MedicineRecords.fxml");

    }

    //MenuBar

    //Menu 1 - File
```

```java
65          //Menu Item 1.1
66          public void HomePageMenuItem(ActionEvent event) {
67              MenuBar obj = new MenuBar();
68              obj.HomePage();
69          }
70
71          //Menu Item 1.2
72          public void LogOutMenuItem(ActionEvent event) {
73              MenuBar obj = new MenuBar();
74              obj.LogOut();
75          }
76
77          //Menu Item 1.3
78          public void ExitMenuItem(ActionEvent event) {
79              MenuBar obj = new MenuBar();
80              obj.Exit();
81          }
82
83          //Menu 2 - View
84
85          //Menu Item 2.1
86          public void NewPatientEntryMenuItem(ActionEvent event) {
87              MenuBar obj = new MenuBar();
88              obj.NewPatientEntry();
89          }
90
91          //Menu Item 2.2
92          public void ShowPatientRecordMenuItem(ActionEvent event) {
93              MenuBar obj = new MenuBar();
94              obj.ShowPatientRecord();
95          }
96
97          //Menu Item 2.3
98          public void MedicineRecordsMenuItem(ActionEvent event) {
99              MenuBar obj = new MenuBar();
100             obj.MedicineRecords();
101         }
102
103         //Menu 3  - Help
104
105         //Menu Item 3.1
106         public void CollegeWebsiteLinksMenuItem(ActionEvent event) {
107             MenuBar obj = new MenuBar();
108             obj.CollegeWebsiteLinks();
109         }
110
111         //Menu Item 3.2
112         public void AboutMenuItem(ActionEvent event) {
113             MenuBar obj = new MenuBar();
114             obj.About();
115         }
116
117  }
118
```

```java
package application;

import javafx.event.ActionEvent;
import javafx.fxml.FXML;
import javafx.scene.control.Button;

import java.io.IOException;

public class SelectPatientEntryPageController {

    @FXML
    private Button StaffButton;

    @FXML
    private Button StudentsButton;

    @FXML
    private Button OthersButton;

    @FXML
    private Button BackButton;


    public void userBack(ActionEvent event) throws IOException {

        Main m = new Main();
        m.changeScene("HomePage.fxml");

    }

    public void staffDetailsEntry(ActionEvent event) throws IOException {

        Main m = new Main();
        m.changeScene("StaffPatientDetailsEntry.fxml");

    }

    public void studentDetailsEntry(ActionEvent event) throws IOException {

        Main m = new Main();
        m.showPatientRecords("PatientDetailsEntry.fxml");

    }

    public void OthersDetailsEntry(ActionEvent event) throws IOException {

        Main m = new Main();
        m.changeScene("OtherPatientDetailsEntry.fxml");

    }

    //MenuBar

    //Menu 1 - File

    //Menu Item 1.1
    public void HomePageMenuItem(ActionEvent event) {
        MenuBar obj = new MenuBar();
        obj.HomePage();
    }

    //Menu Item 1.2
    public void LogOutMenuItem(ActionEvent event) {
        MenuBar obj = new MenuBar();
```

```java
65              obj.LogOut();
66          }
67
68      //Menu Item 1.3
69      public void ExitMenuItem(ActionEvent event) {
70          MenuBar obj = new MenuBar();
71          obj.Exit();
72      }
73
74      //Menu 2 - View
75
76      //Menu Item 2.1
77      public void NewPatientEntryMenuItem(ActionEvent event) {
78          MenuBar obj = new MenuBar();
79          obj.NewPatientEntry();
80      }
81
82      //Menu Item 2.2
83      public void ShowPatientRecordMenuItem(ActionEvent event) {
84          MenuBar obj = new MenuBar();
85          obj.ShowPatientRecord();
86      }
87
88      //Menu Item 2.3
89      public void MedicineRecordsMenuItem(ActionEvent event) {
90          MenuBar obj = new MenuBar();
91          obj.MedicineRecords();
92      }
93
94      //Menu 3  - Help
95
96      //Menu Item 3.1
97      public void CollegeWebsiteLinksMenuItem(ActionEvent event) {
98          MenuBar obj = new MenuBar();
99          obj.CollegeWebsiteLinks();
100      }
101
102      //Menu Item 3.2
103      public void AboutMenuItem(ActionEvent event) {
104          MenuBar obj = new MenuBar();
105          obj.About();
106      }
107
108  }
109
```

```java
package application;

import javafx.event.ActionEvent;
import javafx.fxml.FXML;
import javafx.scene.control.Button;

import java.io.IOException;

public class SelectPatientRecordsPageController {

    @FXML
    private Button StaffButton;

    @FXML
    private Button StudentsButton;

    @FXML
    private Button OthersButton;

    @FXML
    private Button BackButton;


    public void userBack(ActionEvent event) throws IOException {

        Main m = new Main();
        m.changeScene("HomePage.fxml");

    }

    public void staffRecords(ActionEvent event) throws IOException {

        Main m = new Main();
        m.showPatientRecords("StaffPatientRecords.fxml");

    }

    public void studentRecords(ActionEvent event) throws IOException {

        Main m = new Main();
        m.showPatientRecords("PatientRecords.fxml");

    }

    public void OthersRecords(ActionEvent event) throws IOException {

        Main m = new Main();
        m.showPatientRecords("OtherPatientRecords.fxml");

    }

    //MenuBar

    //Menu 1 - File

    //Menu Item 1.1
    public void HomePageMenuItem(ActionEvent event) {
        MenuBar obj = new MenuBar();
        obj.HomePage();
    }

    //Menu Item 1.2
    public void LogOutMenuItem(ActionEvent event) {
        MenuBar obj = new MenuBar();
```

```java
65              obj.LogOut();
66          }
67
68      //Menu Item 1.3
69      public void ExitMenuItem(ActionEvent event) {
70          MenuBar obj = new MenuBar();
71          obj.Exit();
72      }
73
74      //Menu 2 - View
75
76      //Menu Item 2.1
77      public void NewPatientEntryMenuItem(ActionEvent event) {
78          MenuBar obj = new MenuBar();
79          obj.NewPatientEntry();
80      }
81
82      //Menu Item 2.2
83      public void ShowPatientRecordMenuItem(ActionEvent event) {
84          MenuBar obj = new MenuBar();
85          obj.ShowPatientRecord();
86      }
87
88      //Menu Item 2.3
89      public void MedicineRecordsMenuItem(ActionEvent event) {
90          MenuBar obj = new MenuBar();
91          obj.MedicineRecords();
92      }
93
94      //Menu 3  - Help
95
96      //Menu Item 3.1
97      public void CollegeWebsiteLinksMenuItem(ActionEvent event) {
98          MenuBar obj = new MenuBar();
99          obj.CollegeWebsiteLinks();
100     }
101
102     //Menu Item 3.2
103     public void AboutMenuItem(ActionEvent event) {
104         MenuBar obj = new MenuBar();
105         obj.About();
106     }
107
108 }
109
```

```java
package application;

import java.io.IOException;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
import java.time.LocalDate;

import javafx.collections.FXCollections;
import javafx.collections.ObservableList;
import javafx.event.ActionEvent;
import javafx.fxml.FXML;
import javafx.scene.control.Alert;
import javafx.scene.control.Button;
import javafx.scene.control.DatePicker;
import javafx.scene.control.TableColumn;
import javafx.scene.control.TableView;
import javafx.scene.control.TextField;

public class MedicineRecordsController {


    @FXML
    private TextField medicineNameTextField;

    @FXML
    private DatePicker medicineExpiryDateSelector;

    @FXML
    private TextField medicineQuantityTextField;

    @FXML
    private Button medicineSaveButton;

    @FXML
    private TextField injectionNameTextField;

    @FXML
    private DatePicker injectionExpiryDateSelector;

    @FXML
    private TextField injectionQuantityTextField;

    @FXML
    private Button injectionSaveButton;

    //Importing table and columns
    @FXML
    private TableView<Medicine> medicineTable;

    @FXML
    private TableColumn<Medicine, String> col_medicineName;

    @FXML
    private TableColumn<Medicine, Double> col_medicineQuantity;

    @FXML
    private TableColumn<Medicine, String> col_medicineExpiryDate;

    @FXML
    private TableView<Injection> injectionTable;
```

```java
65
66        @FXML
67        private TableColumn<Injection, String> col_injectionName;
68
69        @FXML
70        private TableColumn<Injection, Double> col_injectionQuantity;
71
72        @FXML
73        private TableColumn<Injection, String> col_injectionExpiryDate;
74
75        @FXML
76        private Button backButton;
77
78        @FXML
79        private Button medicineUpdateStockButton;
80
81        @FXML
82        private Button deleteMedicine;
83
84        @FXML
85        private Button injectionUpdateStockButton;
86
87        @FXML
88        private Button deleteInjection;
89
90        LocalDate medicine_expiryDate, injection_expiryDate;
91
92        public void backToHomePage(ActionEvent event) throws IOException{
93
94            Main m = new Main();
95            m.changeScene("HomePage.fxml");
96
97        }
98
99        public void showMedicineDate(ActionEvent event) throws IOException {
100
101            medicine_expiryDate = medicineExpiryDateSelector.getValue();
102
103        }
104
105        public void showInjectionDate(ActionEvent event) throws IOException {
106
107            injection_expiryDate = injectionExpiryDateSelector.getValue();
108
109        }
110
111        //save new medicine to the database
112        public void saveMedicine(ActionEvent event) throws IOException{
113
114            try {
115
116                Connection connection =
117                DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_system"
118                , "root", "root");
119
120                String sql = "INSERT INTO medicine_list (medicine_name, medicine_quantity,
121                medicine_expiry_date) VALUES (?, ?, ?)";
122
123                PreparedStatement statement = connection.prepareStatement(sql);
124
125                statement.setString(1, medicineNameTextField.getText());
126                statement.setDouble(2, Double.parseDouble(medicineQuantityTextField.getText()));
127                statement.setString(3, medicine_expiryDate.toString());
```

```java
126            int rowsInserted = statement.executeUpdate();
127
128            if (rowsInserted > 0) {
129                Alert alert = new Alert(Alert.AlertType.INFORMATION);
130                alert.setTitle("Message");
131                alert.setHeaderText(null);
132                alert.setContentText("Saved Successfully!");
133                alert.showAndWait();
134            }
135
136            Main m = new Main();
137            m.changeScene("MedicineRecords.fxml");
138
139            statement.close();
140            connection.close();
141
142        }
143
144        catch (SQLException ae) {
145
146            System.out.println("Error!!! Connection Failed");
147            ae.printStackTrace();
148
149            Alert alert = new Alert(Alert.AlertType.ERROR);
150            alert.setTitle("Error Message");
151            alert.setHeaderText(null);
152            alert.setContentText("ERROR Saving Medicine!!");
153            alert.showAndWait();
154
155        }
156
157    }
158
159    //update medicine stock
160    public void updateMedicine(ActionEvent event) throws IOException {
161
162        try {
163
164            Connection connection =
                DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_system"
                , "root", "root");
165
166            String sql = "UPDATE medicine_list SET medicine_quantity=medicine_quantity+?,
                medicine_expiry_date=? WHERE medicine_name=?;";
167
168            PreparedStatement statement = connection.prepareStatement(sql);
169
170            statement.setDouble(1, Double.parseDouble(medicineQuantityTextField.getText()));
171            statement.setString(2, medicine_expiryDate.toString());
172            statement.setString(3, medicineNameTextField.getText());
173
174
175            int rowsUpdated = statement.executeUpdate();
176
177            if (rowsUpdated > 0) {
178                Alert alert = new Alert(Alert.AlertType.INFORMATION);
179                alert.setTitle("Message");
180                alert.setHeaderText(null);
181                alert.setContentText("Saved Successfully!");
182                alert.showAndWait();
183            }
184
185            Main m = new Main();
186            m.changeScene("MedicineRecords.fxml");
```

```java
187
188            statement.close();
189            connection.close();
190
191        }
192        catch (SQLException ae) {
193
194            System.out.println("Error!!! Connection Failed");
195            ae.printStackTrace();
196
197            Alert alert = new Alert(Alert.AlertType.ERROR);
198            alert.setTitle("Error Message");
199            alert.setHeaderText(null);
200            alert.setContentText("ERROR Updating Stock!!");
201            alert.showAndWait();
202
203        }
204
205    }
206
207    //delete medicine records
208    public void deleteMedicine(ActionEvent event) throws IOException{
209
210        try {
211
212            Medicine selectedRow = medicineTable.getSelectionModel().getSelectedItem();
213            String medicineName = selectedRow.getMedicineName();
214
215            Connection connection =
                DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_system"
                , "root", "root");
216
217            String sql = "DELETE FROM medicine_list WHERE medicine_name = ?;";
218
219            PreparedStatement statement = connection.prepareStatement(sql);
220
221            statement.setString(1, medicineName);
222            statement.execute();
223
224            new Main().changeScene("MedicineRecords.fxml");
225
226        }
227
228        catch (SQLException ae) {
229
230            System.out.println("Error!!! Connection Failed");
231            ae.printStackTrace();
232
233            Alert alert = new Alert(Alert.AlertType.ERROR);
234            alert.setTitle("Error Message");
235            alert.setHeaderText(null);
236            alert.setContentText("ERROR Deleting Selected Row!!");
237            alert.showAndWait();
238
239        }
240    }
241
242    //save new injection
243    public void saveInjection(ActionEvent event) throws IOException{
244
245        try {
246
247            Connection connection =
                DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_system"
```

```java
                            , "root", "root");
248
249             String sql = "INSERT INTO injection_list (injection_name, injection_quantity,
                injection_expiry_date) VALUES (?, ?, ?)";
250
251             PreparedStatement statement = connection.prepareStatement(sql);
252
253             statement.setString(1, injectionNameTextField.getText());
254             statement.setDouble(2, Double.parseDouble(injectionQuantityTextField.getText()));
255             statement.setString(3, injection_expiryDate.toString());
256
257             int rowsInserted = statement.executeUpdate();
258
259             if (rowsInserted > 0) {
260                 Alert alert = new Alert(Alert.AlertType.INFORMATION);
261                 alert.setTitle("Message");
262                 alert.setHeaderText(null);
263                 alert.setContentText("Saved Successfully!");
264                 alert.showAndWait();
265             }
266
267             Main m = new Main();
268             m.changeScene("MedicineRecords.fxml");
269
270             statement.close();
271             connection.close();
272
273         }
274         catch (SQLException ae) {
275
276             System.out.println("Error!!! Connection Failed");
277             ae.printStackTrace();
278
279             Alert alert = new Alert(Alert.AlertType.ERROR);
280             alert.setTitle("Error Message");
281             alert.setHeaderText(null);
282             alert.setContentText("ERROR Saving Injection!!");
283             alert.showAndWait();
284
285         }
286
287     }
288
289     //update injection info
290     public void updateInjection(ActionEvent event) throws IOException {
291
292         try {
293
294             Connection connection =
                DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_system"
                , "root", "root");
295
296             String sql = "UPDATE injection_list SET injection_quantity=injection_quantity+?,
                injection_expiry_date=? WHERE injection_name=?;";
297
298             PreparedStatement statement = connection.prepareStatement(sql);
299
300             statement.setDouble(1, Double.parseDouble(injectionQuantityTextField.getText()));
301             statement.setString(2, injection_expiryDate.toString());
302             statement.setString(3, injectionNameTextField.getText());
303
304             int rowsUpdated = statement.executeUpdate();
305
306             if (rowsUpdated > 0) {
```

```java
                    Alert alert = new Alert(Alert.AlertType.INFORMATION);
                    alert.setTitle("Message");
                    alert.setHeaderText(null);
                    alert.setContentText("Saved Successfully!");
                    alert.showAndWait();
                }

                Main m = new Main();
                m.changeScene("MedicineRecords.fxml");

                statement.close();
                connection.close();

            }
            catch (SQLException ae) {

                System.out.println("Error!!! Connection Failed");
                ae.printStackTrace();

                Alert alert = new Alert(Alert.AlertType.ERROR);
                alert.setTitle("Error Message");
                alert.setHeaderText(null);
                alert.setContentText("ERROR Updating Stock!!");
                alert.showAndWait();

            }
        }

        //delete Injection reocrds in database
        public void deleteInjection(ActionEvent event) throws IOException{

            try {

                Injection selectedRow = injectionTable.getSelectionModel().getSelectedItem();
                String injectionName = selectedRow.getInjectionName();

                Connection connection =
                DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_system"
                , "root", "root");

                String sql = "DELETE FROM injection_list WHERE injection_name = ?;";

                PreparedStatement statement = connection.prepareStatement(sql);

                statement.setString(1, injectionName);
                statement.execute();

                new Main().changeScene("MedicineRecords.fxml");

            }

            catch (SQLException ae) {

                System.out.println("Error!!! Connection Failed");
                ae.printStackTrace();

                Alert alert = new Alert(Alert.AlertType.ERROR);
                alert.setTitle("Error Message");
                alert.setHeaderText(null);
                alert.setContentText("ERROR Deleting Selected Row!!");
                alert.showAndWait();

            }
        }
```

```java
369
370
371        @FXML
372        public void initialize() throws Exception {
373
374            //get column info
375
376            col_medicineName.setCellValueFactory(cellData -> cellData.getValue().get_MedicineName());
377            col_medicineQuantity.setCellValueFactory(cellData ->
                   cellData.getValue().get_MedicineQuantity().asObject());
378            col_medicineExpiryDate.setCellValueFactory(cellData ->
                   cellData.getValue().get_MedicineExpiryDate());
379
380            col_injectionName.setCellValueFactory(cellData ->
                   cellData.getValue().get_InjectionName());
381            col_injectionQuantity.setCellValueFactory(cellData ->
                   cellData.getValue().get_InjectionQuantity().asObject());
382            col_injectionExpiryDate.setCellValueFactory(cellData ->
                   cellData.getValue().get_InjectionExpiryDate());
383
384            ObservableList<Medicine> medicineList = getMedicineRecords();
385            populateMedicineTable(medicineList);
386
387            ObservableList<Injection> injectionList = getInjectionRecords();
388            populateInjectionTable(injectionList);
389
390        }
391
392        //set items in medicine table
393        public void populateMedicineTable (ObservableList<Medicine> medicineList) {
394            medicineTable.setItems(medicineList);
395        }
396
397        //get medicine records from database
398        public static ObservableList<Medicine> getMedicineRecords() {
399
400            ObservableList<Medicine> medicineList = FXCollections.observableArrayList();
401
402            try {
403
404                Connection connection =
                   DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_system"
                   , "root", "root");
405                Statement statement = connection.createStatement();
406
407                String sql = "SELECT * FROM medicine_list;";
408                ResultSet resultset1 = statement.executeQuery(sql);
409
410                medicineList = getMedicineObject(resultset1);
411
412            }
413
414            catch (SQLException ae) {
415
416                System.out.println("Error!!! Connection Failed");
417                ae.printStackTrace();
418
419                Alert alert = new Alert(Alert.AlertType.ERROR);
420                alert.setTitle("Error Message");
421                alert.setHeaderText(null);
422                alert.setContentText("ERROR Connecting to MySQL Database!!");
423                alert.showAndWait();
424
425            }
```

```java
426
427            return medicineList;
428
429        }
430
431        public static ObservableList<Medicine> getMedicineObject(ResultSet resultset1) {
432
433            ObservableList<Medicine> medicineRecordList = FXCollections.observableArrayList();
434
435            try {
436
437                while (resultset1.next()) {
438
439                    Medicine obj = new Medicine();
440                    obj.setMedicineName(resultset1.getString("medicine_name"));
441                    obj.setMedicineQuantity(resultset1.getDouble("medicine_quantity"));
442                    obj.setMedicineExpiryDate(resultset1.getString("medicine_expiry_date"));
443
444                    medicineRecordList.add(obj);
445
446                }
447
448            }
449
450            catch (SQLException ae) {
451
452                System.out.println("Error!!! Connection Failed");
453                ae.printStackTrace();
454
455                Alert alert = new Alert(Alert.AlertType.ERROR);
456                alert.setTitle("Error Message");
457                alert.setHeaderText(null);
458                alert.setContentText("ERROR Connecting to MySQL Database!!");
459                alert.showAndWait();
460
461            }
462            return medicineRecordList;
463
464        }
465
466        //add items to injection table
467        public void populateInjectionTable (ObservableList<Injection> injectionList) {
468            injectionTable.setItems(injectionList);
469        }
470
471        //get injection records from database
472        public static ObservableList<Injection> getInjectionRecords() {
473
474            ObservableList<Injection> injectionList = FXCollections.observableArrayList();
475
476            try {
477
478                Connection connection =
479                DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_system"
480                , "root", "root");
479                Statement statement = connection.createStatement();
480
481                String sql = "SELECT * FROM injection_list;";
482                ResultSet resultset2 = statement.executeQuery(sql);
483
484                injectionList = getInjectionObject(resultset2);
485
486            }
487
```

```java
488          catch (SQLException ae) {
489
490               System.out.println("Error!!! Connection Failed");
491               ae.printStackTrace();
492
493               Alert alert = new Alert(Alert.AlertType.ERROR);
494               alert.setTitle("Error Message");
495               alert.setHeaderText(null);
496               alert.setContentText("ERROR Connecting to MySQL Database!!");
497               alert.showAndWait();
498
499          }
500
501          return injectionList;
502
503     }
504
505     public static ObservableList<Injection> getInjectionObject(ResultSet resultset2) {
506
507          ObservableList<Injection> injectionRecordList = FXCollections.observableArrayList();
508
509          try {
510
511               while (resultset2.next()) {
512
513                    Injection obj = new Injection();
514                    obj.setInjectionName(resultset2.getString("injection_name"));
515                    obj.setInjectionQuantity(resultset2.getDouble("injection_quantity"));
516                    obj.setInjectionExpiryDate(resultset2.getString("injection_expiry_date"));
517
518                    injectionRecordList.add(obj);
519
520               }
521
522          }
523
524          catch (SQLException ae) {
525
526               System.out.println("Error!!! Connection Failed");
527               ae.printStackTrace();
528
529               Alert alert = new Alert(Alert.AlertType.ERROR);
530               alert.setTitle("Error Message");
531               alert.setHeaderText(null);
532               alert.setContentText("ERROR Connecting to MySQL Database!!");
533               alert.showAndWait();
534
535          }
536          return injectionRecordList;
537
538     }
539
540     //MenuBar
541
542     //Menu 1 - File
543
544     //Menu Item 1.1
545     public void HomePageMenuItem(ActionEvent event) {
546          MenuBar obj = new MenuBar();
547          obj.HomePage();
548     }
549
550     //Menu Item 1.2
551     public void LogOutMenuItem(ActionEvent event) {
```

```java
552            MenuBar obj = new MenuBar();
553            obj.LogOut();
554        }
555
556        //Menu Item 1.3
557        public void ExitMenuItem(ActionEvent event) {
558            MenuBar obj = new MenuBar();
559            obj.Exit();
560        }
561
562        //Menu 2 - View
563
564        //Menu Item 2.1
565        public void NewPatientEntryMenuItem(ActionEvent event) {
566            MenuBar obj = new MenuBar();
567            obj.NewPatientEntry();
568        }
569
570        //Menu Item 2.2
571        public void ShowPatientRecordMenuItem(ActionEvent event) {
572            MenuBar obj = new MenuBar();
573            obj.ShowPatientRecord();
574        }
575
576        //Menu Item 2.3
577        public void MedicineRecordsMenuItem(ActionEvent event) {
578            MenuBar obj = new MenuBar();
579            obj.MedicineRecords();
580        }
581
582        //Menu 3  - Help
583
584        //Menu Item 3.1
585        public void CollegeWebsiteLinksMenuItem(ActionEvent event) {
586            MenuBar obj = new MenuBar();
587            obj.CollegeWebsiteLinks();
588        }
589
590        //Menu Item 3.2
591        public void AboutMenuItem(ActionEvent event) {
592            MenuBar obj = new MenuBar();
593            obj.About();
594        }
595
596    }
```

```java
package application;

import javafx.beans.property.IntegerProperty;
import javafx.beans.property.SimpleIntegerProperty;
import javafx.beans.property.SimpleStringProperty;
import javafx.beans.property.StringProperty;


public class Patient {

        private IntegerProperty regNo, stdNo, year, age, phoneNo, leaveDays;
        private StringProperty name, course, dept, sex, date, time, leaveOptions, complaint,
        remarks;

        //constructor
        public Patient() {

            this.regNo = new SimpleIntegerProperty();
            this.name = new SimpleStringProperty();
            this.stdNo = new SimpleIntegerProperty();
            this.year = new SimpleIntegerProperty();
            this.course = new SimpleStringProperty();
            this.dept = new SimpleStringProperty();
            this.sex = new SimpleStringProperty();
            this.age = new SimpleIntegerProperty();
            this.phoneNo = new SimpleIntegerProperty();
            this.date = new SimpleStringProperty();
            this.time = new SimpleStringProperty();
            this.leaveOptions = new SimpleStringProperty();
            this.leaveDays = new SimpleIntegerProperty();
            this.complaint = new SimpleStringProperty();
            this.remarks = new SimpleStringProperty();

        }

        //getters and setters
        public Integer getStdNo() {
            return stdNo.get();
        }

        public void setStdNo(Integer stdNo) {
            this.stdNo.set(stdNo);
        }

        public IntegerProperty get_StdNo() {
            return stdNo;
        }

        public Integer getYear() {
            return year.get();
        }

        public void setYear(Integer year) {
            this.year.set(year);
        }

        public IntegerProperty get_Year() {
            return year;
        }

        public Integer getAge() {
            return age.get();
        }
```

```java
        public void setAge(Integer age) {
            this.age.set(age);
        }

        public IntegerProperty get_Age() {
            return age;
        }

        public Integer getPhoneNo() {
            return phoneNo.get();
        }

        public void setPhoneNo(Integer phoneNo) {
            this.phoneNo.set(phoneNo);
        }

        public IntegerProperty get_PhoneNo() {
            return phoneNo;
        }

        public Integer getLeaveDays() {
            return leaveDays.get();
        }

        public void setLeaveDays(Integer leaveDays) {
            this.leaveDays.set(leaveDays);
        }

        public IntegerProperty get_LeaveDays() {
            return leaveDays;
        }

        public Integer getRegNo() {
            return regNo.get();
        }

        public void setRegNo(Integer regNo) {
            this.regNo.set(regNo);
        }

        public IntegerProperty get_RegNo() {
            return regNo;
        }

        public String getName() {
            return name.get();
        }

        public void setName(String name) {
            this.name.set(name);
        }

        public StringProperty get_Name() {
            return name;
        }

        public String getCourse() {
            return course.get();
        }

        public void setCourse(String course) {
            this.course .set(course);
        }
```

```java
128         public StringProperty get_Course() {
129             return course;
130         }
131
132         public String getDept() {
133             return dept.get();
134         }
135
136         public void setDept(String dept) {
137             this.dept.set(dept);
138         }
139
140         public StringProperty get_Dept() {
141             return dept;
142         }
143
144         public String getSex() {
145             return sex.get();
146         }
147
148         public void setSex(String sex) {
149             this.sex.set(sex);
150         }
151
152         public StringProperty get_Sex() {
153             return sex;
154         }
155
156         public String getDate() {
157             return date.get();
158         }
159
160         public void setDate(String date) {
161             this.date.set(date);
162         }
163
164         public StringProperty get_Date() {
165             return date;
166         }
167
168         public String getTime() {
169             return time.get();
170         }
171
172         public void setTime(String time) {
173             this.time.set(time);
174         }
175
176         public StringProperty get_Time() {
177             return time;
178         }
179
180         public String getLeaveOptions() {
181             return leaveOptions.get();
182         }
183
184         public void setLeaveOptions(String leaveOptions) {
185             this.leaveOptions.set(leaveOptions);
186         }
187
188         public StringProperty get_leaveOptions() {
189             return leaveOptions;
190         }
191
```

```java
192        public String getComplaint() {
193            return complaint.get();
194        }
195
196        public void setComplaint(String complaint) {
197            this.complaint.set(complaint);
198        }
199
200        public StringProperty get_Complaint() {
201            return complaint;
202        }
203
204        public String getRemarks() {
205            return remarks.get();
206        }
207
208        public void setRemarks(String remarks) {
209            this.remarks.set(remarks);
210        }
211
212        public StringProperty get_Remarks() {
213            return remarks;
214        }
215
216    }
```

```java
package application;

import javafx.beans.property.IntegerProperty;
import javafx.beans.property.SimpleIntegerProperty;
import javafx.beans.property.SimpleStringProperty;
import javafx.beans.property.StringProperty;


public class StaffPatient {

        private IntegerProperty regNo, age, phoneNo, leaveDays;
        private StringProperty name, dept, sex, date, time, leaveOptions, complaint, remarks;

        //default constuctor
        public StaffPatient() {

            this.regNo = new SimpleIntegerProperty();
            this.name = new SimpleStringProperty();
            this.dept = new SimpleStringProperty();
            this.sex = new SimpleStringProperty();
            this.age = new SimpleIntegerProperty();
            this.phoneNo = new SimpleIntegerProperty();
            this.date = new SimpleStringProperty();
            this.time = new SimpleStringProperty();
            this.leaveOptions = new SimpleStringProperty();
            this.leaveDays = new SimpleIntegerProperty();
            this.complaint = new SimpleStringProperty();
            this.remarks = new SimpleStringProperty();

        }

        //getters and setters
        public Integer getAge() {
            return age.get();
        }

        public void setAge(Integer age) {
            this.age.set(age);
        }

        public IntegerProperty get_Age() {
            return age;
        }

        public Integer getPhoneNo() {
            return phoneNo.get();
        }

        public void setPhoneNo(Integer phoneNo) {
            this.phoneNo.set(phoneNo);
        }

        public IntegerProperty get_PhoneNo() {
            return phoneNo;
        }

        public Integer getLeaveDays() {
            return leaveDays.get();
        }

        public void setLeaveDays(Integer leaveDays) {
            this.leaveDays.set(leaveDays);
        }
```

```java
 65          public IntegerProperty get_LeaveDays() {
 66              return leaveDays;
 67          }
 68
 69          public Integer getRegNo() {
 70              return regNo.get();
 71          }
 72
 73          public void setRegNo(Integer regNo) {
 74              this.regNo.set(regNo);
 75          }
 76
 77          public IntegerProperty get_RegNo() {
 78              return regNo;
 79          }
 80
 81          public String getName() {
 82              return name.get();
 83          }
 84
 85          public void setName(String name) {
 86              this.name.set(name);
 87          }
 88
 89          public StringProperty get_Name() {
 90              return name;
 91          }
 92
 93          public String getDept() {
 94              return dept.get();
 95          }
 96
 97          public void setDept(String dept) {
 98              this.dept.set(dept);
 99          }
100
101          public StringProperty get_Dept() {
102              return dept;
103          }
104
105          public String getSex() {
106              return sex.get();
107          }
108
109          public void setSex(String sex) {
110              this.sex.set(sex);
111          }
112
113          public StringProperty get_Sex() {
114              return sex;
115          }
116
117          public String getDate() {
118              return date.get();
119          }
120
121          public void setDate(String date) {
122              this.date.set(date);
123          }
124
125          public StringProperty get_Date() {
126              return date;
127          }
128
```

```java
129        public String getTime() {
130            return time.get();
131        }
132
133        public void setTime(String time) {
134            this.time.set(time);
135        }
136
137        public StringProperty get_Time() {
138            return time;
139        }
140
141        public String getLeaveOptions() {
142            return leaveOptions.get();
143        }
144
145        public void setLeaveOptions(String leaveOptions) {
146            this.leaveOptions.set(leaveOptions);
147        }
148
149        public StringProperty get_leaveOptions() {
150            return leaveOptions;
151        }
152
153        public String getComplaint() {
154            return complaint.get();
155        }
156
157        public void setComplaint(String complaint) {
158            this.complaint.set(complaint);
159        }
160
161        public StringProperty get_Complaint() {
162            return complaint;
163        }
164
165        public String getRemarks() {
166            return remarks.get();
167        }
168
169        public void setRemarks(String remarks) {
170            this.remarks.set(remarks);
171        }
172
173        public StringProperty get_Remarks() {
174            return remarks;
175        }
176
177    }
```

```java
package application;

import javafx.beans.property.IntegerProperty;
import javafx.beans.property.SimpleIntegerProperty;
import javafx.beans.property.SimpleStringProperty;
import javafx.beans.property.StringProperty;


public class OtherPatient {

        private IntegerProperty regNo, age, phoneNo;
        private StringProperty name, sex, date, time, complaint, remarks;

        //constructor
        public OtherPatient() {

            this.regNo = new SimpleIntegerProperty();
            this.name = new SimpleStringProperty();
            this.sex = new SimpleStringProperty();
            this.age = new SimpleIntegerProperty();
            this.phoneNo = new SimpleIntegerProperty();
            this.date = new SimpleStringProperty();
            this.time = new SimpleStringProperty();
            this.complaint = new SimpleStringProperty();
            this.remarks = new SimpleStringProperty();

        }

        //Getters and Setters for Table View
        public Integer getAge() {
            return age.get();
        }

        public void setAge(Integer age) {
            this.age.set(age);
        }

        public IntegerProperty get_Age() {
            return age;
        }

        public Integer getPhoneNo() {
            return phoneNo.get();
        }

        public void setPhoneNo(Integer phoneNo) {
            this.phoneNo.set(phoneNo);
        }

        public IntegerProperty get_PhoneNo() {
            return phoneNo;
        }

        public Integer getRegNo() {
            return regNo.get();
        }

        public void setRegNo(Integer regNo) {
            this.regNo.set(regNo);
        }

        public IntegerProperty get_RegNo() {
            return regNo;
        }
```

```java
        public String getName() {
            return name.get();
        }

        public void setName(String name) {
            this.name.set(name);
        }

        public StringProperty get_Name() {
            return name;
        }

        public String getSex() {
            return sex.get();
        }

        public void setSex(String sex) {
            this.sex.set(sex);
        }

        public StringProperty get_Sex() {
            return sex;
        }

        public String getDate() {
            return date.get();
        }

        public void setDate(String date) {
            this.date.set(date);
        }

        public StringProperty get_Date() {
            return date;
        }

        public String getTime() {
            return time.get();
        }

        public void setTime(String time) {
            this.time.set(time);
        }

        public StringProperty get_Time() {
            return time;
        }

        public String getComplaint() {
            return complaint.get();
        }

        public void setComplaint(String complaint) {
            this.complaint.set(complaint);
        }

        public StringProperty get_Complaint() {
            return complaint;
        }

        public String getRemarks() {
            return remarks.get();
        }
```

```java
        public void setRemarks(String remarks) {
            this.remarks.set(remarks);
        }

        public StringProperty get_Remarks() {
            return remarks;
        }

}
```

```java
package application;

import javafx.beans.property.DoubleProperty;
import javafx.beans.property.SimpleDoubleProperty;
import javafx.beans.property.SimpleStringProperty;
import javafx.beans.property.StringProperty;

public class Medicine {

    private DoubleProperty medicineQuantity;
    private StringProperty medicineName, medicineExpiryDate;

    //Constructor
    public Medicine() {

        this.medicineName = new SimpleStringProperty();
        this.medicineQuantity = new SimpleDoubleProperty();
        this.medicineExpiryDate = new SimpleStringProperty();

    }

    //Getters and Setters for Table View
    public String getMedicineName() {
        return medicineName.get();
    }

    public void setMedicineName(String medicineName) {
        this.medicineName.set(medicineName);
    }

    public StringProperty get_MedicineName() {
        return medicineName;
    }

    public Double getMedicineQuantity() {
        return medicineQuantity.get();
    }

    public void setMedicineQuantity(Double medicineQuantity) {
        this.medicineQuantity.set(medicineQuantity);
    }

    public DoubleProperty get_MedicineQuantity() {
        return medicineQuantity;
    }

    public String getMedicineExpiryDate() {
        return medicineExpiryDate.get();
    }

    public void setMedicineExpiryDate(String medicineExpiryDate) {
        this.medicineExpiryDate.set(medicineExpiryDate);
    }

    public StringProperty get_MedicineExpiryDate() {
        return medicineExpiryDate;
    }

}
```

```java
package application;

import javafx.beans.property.DoubleProperty;
import javafx.beans.property.SimpleDoubleProperty;
import javafx.beans.property.SimpleStringProperty;
import javafx.beans.property.StringProperty;

public class Injection {

    private DoubleProperty injectionQuantity;
    private StringProperty injectionName, injectionExpiryDate;

    //Default Constructor
    public Injection() {

        this.injectionName = new SimpleStringProperty();
        this.injectionQuantity = new SimpleDoubleProperty();
        this.injectionExpiryDate = new SimpleStringProperty();

    }

    //Getters and Setters
    public String getInjectionName() {
        return injectionName.get();
    }

    public void setInjectionName(String injectionName) {
        this.injectionName.set(injectionName);
    }

    public StringProperty get_InjectionName() {
        return injectionName;
    }

    public Double getInjectionQuantity() {
        return injectionQuantity.get();
    }

    public void setInjectionQuantity(Double injectionQuantity) {
        this.injectionQuantity.set(injectionQuantity);
    }

    public DoubleProperty get_InjectionQuantity() {
        return injectionQuantity;
    }

    public String getInjectionExpiryDate() {
        return injectionExpiryDate.get();
    }

    public void setInjectionExpiryDate(String injectionExpiryDate) {
        this.injectionExpiryDate.set(injectionExpiryDate);
    }

    public StringProperty get_InjectionExpiryDate() {
        return injectionExpiryDate;
    }

}
```

```java
package application;

import javafx.scene.control.Alert;
import javafx.scene.control.ButtonType;

public class MenuBar {

    Main m = new Main();

    //Menu 1 - File

    //Menu Item 1.1
    public void HomePage() {

        m.changeScene("HomePage.fxml");

    }

    //Menu Item 1.2
    public void LogOut() {

        Alert alert = new Alert(Alert.AlertType.CONFIRMATION);
        alert.setTitle("Logout");
        alert.setHeaderText(null);
        alert.setContentText("Are you sure you want to Logout?");
        if (alert.showAndWait().get() == ButtonType.OK){
            m.changeScene("LoginPage.fxml");
        }

    }

    //Menu Item 1.3
    public void Exit() {

        System.exit(0);

    }

    //Menu 2 - View

    //Menu Item 2.1
    public void NewPatientEntry() {

        m.changeScene("SelectPatientEntryPage.fxml");

    }

    //Menu Item 2.2
    public void ShowPatientRecord() {

        m.showPatientRecords("SelectPatientRecordsPage.fxml");

    }

    //Menu Item 2.3
    public void MedicineRecords() {

        m.changeScene("MedicineRecords.fxml");

    }

    //Menu 3  - Help

    //Menu Item 3.1
```

```java
65      public void CollegeWebsiteLinks() {

67          m.changeScene("CollegeWebsiteLinks.fxml");

69      }

71      //Menu Item 3.2
72      public void About() {

74          m.changeScene("About.fxml");
75      }



79  }
```

```java
package application;

import javafx.event.ActionEvent;
import javafx.fxml.FXML;
import javafx.scene.control.Alert;
import javafx.scene.control.Button;
import javafx.scene.control.ButtonType;

import java.io.IOException;

public class About {

    @FXML
    private Button HomePage;

    @FXML
    private Button Logout;

    //method called when logout button is pressed
    public void userLogout(ActionEvent event) throws IOException {

        Alert alert = new Alert(Alert.AlertType.CONFIRMATION);
        alert.setTitle("Logout");
        alert.setHeaderText(null);
        alert.setContentText("Are you sure you want to Logout?");
        if (alert.showAndWait().get() == ButtonType.OK){
            Main m = new Main();
            m.changeScene("LoginPage.fxml");
        }

    }

    public void HomePage(ActionEvent event) throws IOException {

        Main m = new Main();
        m.changeScene("HomePage.fxml");

    }

    //MenuBar

    //Menu 1 - File

    //Menu Item 1.1
    public void HomePageMenuItem(ActionEvent event) {
        MenuBar obj = new MenuBar();
        obj.HomePage();
    }

    //Menu Item 1.2
    public void LogOutMenuItem(ActionEvent event) {
        MenuBar obj = new MenuBar();
        obj.LogOut();
    }

    //Menu Item 1.3
    public void ExitMenuItem(ActionEvent event) {
        MenuBar obj = new MenuBar();
        obj.Exit();
    }

    //Menu 2 - View

    //Menu Item 2.1
```

```java
65      public void NewPatientEntryMenuItem(ActionEvent event) {
66          MenuBar obj = new MenuBar();
67          obj.NewPatientEntry();
68      }
69
70      //Menu Item 2.2
71      public void ShowPatientRecordMenuItem(ActionEvent event) {
72          MenuBar obj = new MenuBar();
73          obj.ShowPatientRecord();
74      }
75
76      //Menu Item 2.3
77      public void MedicineRecordsMenuItem(ActionEvent event) {
78          MenuBar obj = new MenuBar();
79          obj.MedicineRecords();
80      }
81
82      //Menu 3  - Help
83
84      //Menu Item 3.1
85      public void CollegeWebsiteLinksMenuItem(ActionEvent event) {
86          MenuBar obj = new MenuBar();
87          obj.CollegeWebsiteLinks();
88      }
89
90      //Menu Item 3.2
91      public void AboutMenuItem(ActionEvent event) {
92          MenuBar obj = new MenuBar();
93          obj.About();
94      }
95
96  }
97
```

```java
package application;

import java.io.IOException;
import java.net.URL;
import java.sql.*;
import java.time.LocalDate;
import java.time.LocalTime;
import java.time.format.DateTimeFormatter;
import java.util.ResourceBundle;

import javafx.collections.FXCollections;
import javafx.collections.ObservableList;
import javafx.event.ActionEvent;
import javafx.fxml.*;
import javafx.fxml.FXML;
import javafx.scene.control.*;

public class PatientDetailsEntryController implements Initializable {

    // Buttons

    @FXML
    private Button backButton;

    @FXML
    private Button saveButton;

    // Patient Details Entry Components

    @FXML
    public TextField nameTextField;

    @FXML
    private TextField studentNoTextField;

    @FXML
    private TextField regNoTextField;

    @FXML
    private RadioButton maleRadioButton;

    @FXML
    private RadioButton femaleRadioButton;

    @FXML
    private ToggleGroup gender;

    @FXML
    private TextField ageTextField;

    @FXML
    private TextField phoneNoTextField;

    @FXML
    private DatePicker DateSelector;

    @FXML
    private TextField timeTextField;

    @FXML
    private RadioButton amRadioButton;

    @FXML
    private RadioButton pmRadioButton;
```

```java
    @FXML
    private ToggleGroup timeSelect;

    @FXML
    private TextArea complaintTextArea;

    @FXML
    private TextArea remarksTextArea;

    @FXML
    private TextField leaveDaysTextField;

    // ComboBox

    @FXML
    public ComboBox<String> yearComboBox;

    @FXML
    public ComboBox<String> courseComboBox;

    @FXML
    public ComboBox<String> departmentComboBox;

    @FXML
    public ComboBox<String> leaveOptionsComboBox;

    //Medicine
    @FXML
    public CheckBox medicineChecBox;

    @FXML
    public ComboBox<String> medicineComboBox;

    @FXML
    public TextField medicineQuantityTextField;

    @FXML
    public CheckBox injectionChecBox;

    @FXML
    public ComboBox<String> injectionComboBox;

    @FXML
    public TextField injectionQuantityTextField;

    // Error Labels
    @FXML
    private Label nameErrorMessage;

    @FXML
    private Label stdNoErrorMessage;

    @FXML
    private Label ageErrorMessage;

    @FXML
    private Label genderErrorMessage;

    @FXML
    private Label deptErrorMessage;

    @FXML
    private Label yearErrorMessage;
```

```java
129
130        @FXML
131        private Label courseErrorMessage;
132
133        @FXML
134        private Label phoneNoErrorMessage;
135
136        @FXML
137        private Label complaintErrorMessage;
138
139        @FXML
140        private Label remarksErrorMessage;
141
142        @FXML
143        private Label leaveDaysErrorMessage;
144
145        @FXML
146        private Label leaveOptionsErrorMessage;
147
148        public String sex, time, year, course, department, leaveOptions, ampm;
149        public LocalDate date;
150        public Integer lastRegNo;
151
152        //combo box items in a array list
153        ObservableList<String>  yearList = FXCollections.observableArrayList("1", "2", "3", "4",
           "5");
154        ObservableList<String>  departmentList = FXCollections.observableArrayList("Civil
           Department", "Architecture Department", "Electrical Department", "IT Department", "ECE
           Department");
155        ObservableList<String>  leaveOptionList = FXCollections.observableArrayList("No Leave",
           "Bed Rest", "Full Day Leave", "Half Day Leave", "Referred to PGH");
156        ObservableList<String>  medicineList = FXCollections.observableArrayList();
157        ObservableList<String>  injectionList = FXCollections.observableArrayList();
158
159        @Override
160        public void initialize(URL arg0, ResourceBundle arg1) {
161            departmentComboBox.setItems(departmentList);
162            leaveOptionsComboBox.setItems(leaveOptionList);
163            yearComboBox.setItems(yearList);
164            medicineComboBox.setItems(medicineList);
165            injectionComboBox.setItems(injectionList);
166
167            //sets current data in date selector
168            DateSelector.setValue(LocalDate.now());
169            date = DateSelector.getValue();
170
171            //sets current time in text field
172            String pattern = "hh:mm";
173            timeTextField.setText((LocalTime.now()).format(DateTimeFormatter.ofPattern(pattern)));
174
175            //selects radio button depending on the time
176            String ampmPattern = "hh: mm a";
177            ampm = (LocalTime.now()).format(DateTimeFormatter.ofPattern(ampmPattern));
178            ampm = ampm.substring(6, 7);
179
180            if (ampm.equals("AM")) {
181                amRadioButton.setSelected(true);
182            } else {
183                pmRadioButton.setSelected(true);
184            }
185
186            time = timeTextField.getText() + ampm;
187
188            //calls a method go get last RegNo stored in the database
```

```java
189         getLastRegNo();
190
191         //gets medicine names from database and saves it in the combo box
192         try {
193
194             Connection connection1 =
                DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_system"
                , "root", "root");
195             Statement statement1 = connection1.createStatement();
196
197             String sql = "SELECT * FROM medicine_list;";
198             ResultSet resultset1 = statement1.executeQuery(sql);
199
200             while (resultset1.next()) {
201                 String medicineName = resultset1.getString("medicine_name");
202                 medicineComboBox.getItems().addAll(medicineName);
203             }
204
205             statement1.close();
206             connection1.close();
207             resultset1.close();
208
209         }
210
211         catch (SQLException ae) {
212
213             System.out.println("Error!!! Connection Failed");
214             ae.printStackTrace();
215
216             Alert alert = new Alert(Alert.AlertType.ERROR);
217             alert.setTitle("Error Message");
218             alert.setHeaderText(null);
219             alert.setContentText("ERROR fetching Medicine Name from Database!!");
220             alert.showAndWait();
221
222         }
223
224         //gets injection names from database and saves it in the combo box
225         try {
226
227             Connection connection2 =
                DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_system"
                , "root", "root");
228             Statement statement2 = connection2.createStatement();
229
230             String sql = "SELECT * FROM injection_list;";
231             ResultSet resultset2 = statement2.executeQuery(sql);
232
233             while (resultset2.next()) {
234                 String injectionName = resultset2.getString("injection_name");
235                 injectionComboBox.getItems().addAll(injectionName);
236             }
237
238             statement2.close();
239             connection2.close();
240             resultset2.close();
241
242         }
243
244         catch (SQLException ae) {
245
246             System.out.println("Error!!! Connection Failed");
247             ae.printStackTrace();
248
```

```java
                    Alert alert = new Alert(Alert.AlertType.ERROR);
                    alert.setTitle("Error Message");
                    alert.setHeaderText(null);
                    alert.setContentText("ERROR fetching Injection Name from Database!!");
                    alert.showAndWait();

            }

        }

        //gets selected department and displays courses according to it
        public void deptComboBoxSelected (ActionEvent event) throws IOException {

            department = departmentComboBox.getValue();

            if (department == "Civil Department") {
                ObservableList<String>  courseList = FXCollections.observableArrayList("ME in CM",
                "BE CE", "BE EG");
                courseComboBox.setItems(courseList);
                //          courseComboBox.getItems().addAll("ME in CM", "BE CE", "BE EG");
            }

            else if (department == "Architecture Department") {
                ObservableList<String>  courseList = FXCollections.observableArrayList("B Arch.");
                courseComboBox.setItems(courseList);
                //          courseComboBox.getItems().addAll("B Arch.");
            }

            else if (department == "Electrical Department") {
                ObservableList<String>  courseList = FXCollections.observableArrayList("ME in RE",
                "BE EE");
                courseComboBox.setItems(courseList);
                //          courseComboBox.getItems().addAll("ME in RE", "BE EE");
            }

            else if (department == "IT Department") {
                ObservableList<String>  courseList = FXCollections.observableArrayList("BE IT");
                courseComboBox.setItems(courseList);
                //          courseComboBox.getItems().addAll("BE IT");
            }

            else if (department == "ECE Department") {
                ObservableList<String>  courseList = FXCollections.observableArrayList("BE ECE",
                "BE ICE");
                courseComboBox.setItems(courseList);
                //          courseComboBox.getItems().addAll("BE ECE", "BE ICE");
            }


        }

        //gets selected combo box item
        public void comboChanged (ActionEvent event) throws IOException{

            year = yearComboBox.getValue();
            course = courseComboBox.getValue();
            leaveOptions = leaveOptionsComboBox.getValue();

            if (leaveOptions == "No Leave") {
                leaveDaysTextField.setText("0");
            }


        }
```

```java
310
311        public void homePage(ActionEvent event) throws IOException {
312
313            Main m = new Main();
314            m.changeScene("SelectPatientEntryPage.fxml");
315
316        }
317
318        public void sexRadioSelect (ActionEvent event) throws IOException {
319
320            if (maleRadioButton.isSelected()) {
321                sex = "Male";
322            }
323
324            else if (femaleRadioButton.isSelected()) {
325                sex = "Female";
326            }
327
328        }
329
330        public void timeRadioSelect (ActionEvent event) throws IOException {
331
332            if (amRadioButton.isSelected()) {
333                time = timeTextField.getText() + " AM";
334            }
335
336            else if (pmRadioButton.isSelected()) {
337                time = timeTextField.getText() + " PM";
338            }
339
340        }
341
342        //updates medicine quantity in database after prescribing it
343        public void medicinePrescribed(ActionEvent event) {
344
345            String medicineName = medicineComboBox.getValue();
346
347            try {
348
349                Connection connection =
                   DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_system"
                   , "root", "root");
350
351                String sql = "UPDATE medicine_list SET medicine_quantity = (medicine_quantity-?)
                   WHERE medicine_name = ?;";
352
353                PreparedStatement statement = connection.prepareStatement(sql);
354
355                statement.setDouble(1, Double.parseDouble(medicineQuantityTextField.getText()));
356                statement.setString(2, medicineName);
357
358                statement.executeUpdate();
359
360                statement.close();
361                connection.close();
362
363            }
364
365            catch (SQLException ae) {
366
367                System.out.println("Error!!! Connection Failed");
368                ae.printStackTrace();
369
370                Alert alert = new Alert(Alert.AlertType.ERROR);
```

```java
371            alert.setTitle("Error Message");
372            alert.setHeaderText(null);
373            alert.setContentText("ERROR Prescribing Medicine!!");
374            alert.showAndWait();
375
376        }
377
378     }
379
380     //updates injection quantity in database after prescribing it
381     public void prescribeInjection(ActionEvent event) {
382
383         String injectionName = injectionComboBox.getValue();
384
385         try {
386
387             Connection connection =
                 DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_system"
                 , "root", "root");
388
389             String sql = "UPDATE injection_list SET injection_quantity = (injection_quantity-?)
                 WHERE injection_name = ?;";
390
391             PreparedStatement statement = connection.prepareStatement(sql);
392
393             statement.setDouble(1, Double.parseDouble(injectionQuantityTextField.getText()));
394             statement.setString(2, injectionName);
395
396             statement.executeUpdate();
397
398             statement.close();
399             connection.close();
400
401         }
402
403         catch (SQLException ae) {
404
405             System.out.println("Error!!! Connection Failed");
406             ae.printStackTrace();
407
408             Alert alert = new Alert(Alert.AlertType.ERROR);
409             alert.setTitle("Error Message");
410             alert.setHeaderText(null);
411             alert.setContentText("ERROR Prescribing Injection!!");
412             alert.showAndWait();
413
414         }
415
416     }
417
418     public void saveDetails(ActionEvent event) throws IOException {
419
420         //checks if feilds are empty
421         try {
422             if (year.isEmpty()|| course.isEmpty() || leaveOptions.isEmpty() || sex.isEmpty() ||
                 course.isEmpty() || department.isEmpty()) {
423                 throw new NullPointerException();
424             }
425
426         }
427
428         catch (NullPointerException ae) {
429
430             System.out.println("Error!!! Connection Failed");
```

```java
            ae.printStackTrace();

            Alert alert = new Alert(Alert.AlertType.ERROR);
            alert.setTitle("Error Message");
            alert.setHeaderText(null);
            alert.setContentText("Please Fill-up all fields!!");
            alert.showAndWait();

        }

        boolean  allCorrect = checkAllValues();

        //saves data in database if all fields are filled
        if (allCorrect) {

            try {

                date = DateSelector.getValue();

                Connection connection =
                DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_sys
                tem", "root", "root");

                String sql = "INSERT INTO patient_records (reg_no, name, student_no, sex, age,
                year, course, department, phone_no, date, time, leave_options, no_of_days,
                complaint, remarks) VALUES (?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?)";

                PreparedStatement statement = connection.prepareStatement(sql);

                statement.setInt(1, Integer.parseInt(regNoTextField.getText()));
                statement.setString(2, nameTextField.getText());
                statement.setInt(3, Integer.parseInt(studentNoTextField.getText()));
                statement.setString(4, sex);
                statement.setInt(5, Integer.parseInt(ageTextField.getText()));
                statement.setInt(6, Integer.parseInt(year));
                statement.setString(7, course);
                statement.setString(8, department);
                statement.setInt(9, Integer.parseInt(phoneNoTextField.getText()));
                statement.setString(10, date.toString());
                statement.setString(11, time);
                statement.setString(12, leaveOptions);
                statement.setInt(13, Integer.parseInt(leaveDaysTextField.getText()));
                statement.setString(14, complaintTextArea.getText());
                statement.setString(15, remarksTextArea.getText());

                int rowsInserted = statement.executeUpdate();

                if (rowsInserted > 0) {
                    Alert alert = new Alert(Alert.AlertType.INFORMATION);
                    alert.setTitle("Message");
                    alert.setHeaderText(null);
                    alert.setContentText("Saved Successfully!");
                    alert.showAndWait();
                }

                Main m = new Main();
                m.changeScene("PatientDetailsEntry.fxml");

                statement.close();
                connection.close();

            }

            catch (SQLException ae) {
```

```java
491
492                     System.out.println("Error!!! Connection Failed");
493                     ae.printStackTrace();
494
495                     Alert alert = new Alert(Alert.AlertType.ERROR);
496                     alert.setTitle("Error Message");
497                     alert.setHeaderText(null);
498                     alert.setContentText("ERROR Connecting to MySQL Database!!");
499                     alert.showAndWait();
500
501                 }
502             }
503         }
504
505     //checks if all fields are filled correctly
506     public boolean checkAllValues() {
507
508         boolean checked = false;
509
510         int correct = 0;
511
512         if (nameTextField.getText().isBlank()) {
513             nameErrorMessage.setVisible(true);
514         } else {
515             nameErrorMessage.setVisible(false);
516             correct += 1;
517         }
518
519         if (studentNoTextField.getText().length() == 8) {
520             stdNoErrorMessage.setVisible(false);
521             correct += 1;
522         } else {
523             stdNoErrorMessage.setVisible(true);
524         }
525
526         if (maleRadioButton.isSelected() || femaleRadioButton.isSelected()) {
527             genderErrorMessage.setVisible(false);
528             correct += 1;
529         } else {
530             genderErrorMessage.setVisible(true);
531         }
532
533         if (ageTextField.getText().isBlank()) {
534             ageErrorMessage.setVisible(true);
535         } else {
536             ageErrorMessage.setVisible(false);
537             correct += 1;
538         }
539
540         if (phoneNoTextField.getText().length() == 8) {
541             phoneNoErrorMessage.setVisible(false);
542             correct += 1;
543         } else {
544             phoneNoErrorMessage.setVisible(true);
545         }
546
547         if (complaintTextArea.getText().isBlank()) {
548             complaintErrorMessage.setVisible(true);
549         } else {
550             complaintErrorMessage.setVisible(false);
551             correct += 1;
552         }
553
554         if (remarksTextArea.getText().isBlank()) {
```

```java
555                     remarksErrorMessage.setVisible(true);
556             } else {
557                     remarksErrorMessage.setVisible(false);
558                     correct += 1;
559             }
560
561             if (leaveDaysTextField.getText().isBlank()) {
562                     leaveDaysErrorMessage.setVisible(true);
563             } else {
564                     leaveDaysErrorMessage.setVisible(false);
565                     correct += 1;
566             }
567
568             if (year.isEmpty()) {
569                     yearErrorMessage.setVisible(true);
570             } else {
571                     yearErrorMessage.setVisible(false);
572                     correct += 1;
573             }
574
575             if (course.isEmpty()) {
576                     courseErrorMessage.setVisible(true);
577             } else {
578                     courseErrorMessage.setVisible(false);
579                     correct += 1;
580             }
581
582             if (department.isEmpty()) {
583                     deptErrorMessage.setVisible(true);
584             } else {
585                     deptErrorMessage.setVisible(false);
586                     correct += 1;
587             }
588
589             if (leaveOptions.isEmpty()) {
590                     leaveOptionsErrorMessage.setVisible(true);
591             } else {
592                     leaveOptionsErrorMessage.setVisible(false);
593                     correct += 1;
594             }
595
596             if (correct >= 14) {
597                     checked = true;
598             }
599
600             return checked;
601     }
602
603     //gets last regNo from database and increments it
604     public void getLastRegNo() {
605
606             try {
607
608                     Connection connection =
                        DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_system"
                        , "root", "root");
609
610                     String sql = "SELECT max(reg_no) from patient_records;";
611                     Statement statement = connection.createStatement();
612                     ResultSet resultset = statement.executeQuery(sql);
613
614                     if (resultset.next()) {
615                         lastRegNo = resultset.getInt(1);
616                         lastRegNo++;
```

```java
617                        regNoTextField.setText(lastRegNo.toString());
618                    }
619
620                    else {
621                        regNoTextField.setText("100");
622                    }
623
624                    resultset.close();
625                    statement.close();
626                    connection.close();
627
628                }
629
630            catch (SQLException ae) {
631
632                System.out.println("Error!!! Connection Failed");
633                ae.printStackTrace();
634
635                Alert alert = new Alert(Alert.AlertType.ERROR);
636                alert.setTitle("Error Message");
637                alert.setHeaderText(null);
638                alert.setContentText("ERROR Generating Reg Nos!!");
639                alert.showAndWait();
640
641            }
642        }
643
644        //MenuBar
645
646        //Menu 1 - File
647
648        //Menu Item 1.1
649        public void HomePageMenuItem(ActionEvent event) {
650            MenuBar obj = new MenuBar();
651            obj.HomePage();
652        }
653
654        //Menu Item 1.2
655        public void LogOutMenuItem(ActionEvent event) {
656            MenuBar obj = new MenuBar();
657            obj.LogOut();
658        }
659
660        //Menu Item 1.3
661        public void ExitMenuItem(ActionEvent event) {
662            MenuBar obj = new MenuBar();
663            obj.Exit();
664        }
665
666        //Menu 2 - View
667
668        //Menu Item 2.1
669        public void NewPatientEntryMenuItem(ActionEvent event) {
670            MenuBar obj = new MenuBar();
671            obj.NewPatientEntry();
672        }
673
674        //Menu Item 2.2
675        public void ShowPatientRecordMenuItem(ActionEvent event) {
676            MenuBar obj = new MenuBar();
677            obj.ShowPatientRecord();
678        }
679
680        //Menu Item 2.3
```

```java
681    public void MedicineRecordsMenuItem(ActionEvent event) {
682        MenuBar obj = new MenuBar();
683        obj.MedicineRecords();
684    }
685
686    //Menu 3  - Help
687
688    //Menu Item 3.1
689    public void CollegeWebsiteLinksMenuItem(ActionEvent event) {
690        MenuBar obj = new MenuBar();
691        obj.CollegeWebsiteLinks();
692    }
693
694    //Menu Item 3.2
695    public void AboutMenuItem(ActionEvent event) {
696        MenuBar obj = new MenuBar();
697        obj.About();
698    }
699
700 }
```

```java
1    package application;
2
3    import java.io.IOException;
4    import java.net.URL;
5    import java.sql.*;
6    import java.time.LocalDate;
7    import java.time.LocalTime;
8    import java.time.format.DateTimeFormatter;
9    import java.util.ResourceBundle;
10
11   import javafx.collections.FXCollections;
12   import javafx.collections.ObservableList;
13   import javafx.event.ActionEvent;
14   import javafx.fxml.*;
15   import javafx.fxml.FXML;
16   import javafx.scene.control.*;
17
18   public class StaffPatientDetailsEntryController implements Initializable {
19
20       // Buttons
21
22       @FXML
23       private Button backButton;
24
25       @FXML
26       private Button saveButton;
27
28       // Patient Details Entry Components
29
30       @FXML
31       public TextField nameTextField;
32
33       @FXML
34       private TextField regNoTextField;
35
36       @FXML
37       private RadioButton maleRadioButton;
38
39       @FXML
40       private RadioButton femaleRadioButton;
41
42       @FXML
43       private ToggleGroup gender;
44
45       @FXML
46       private TextField ageTextField;
47
48       @FXML
49       private TextField phoneNoTextField;
50
51       @FXML
52       private DatePicker DateSelector;
53
54       @FXML
55       private TextField timeTextField;
56
57       @FXML
58       private RadioButton amRadioButton;
59
60       @FXML
61       private RadioButton pmRadioButton;
62
63       @FXML
64       private ToggleGroup timeSelect;
```

```java
        @FXML
        private TextArea complaintTextArea;

        @FXML
        private TextArea remarksTextArea;

        @FXML
        private TextField leaveDaysTextField;

        // ComboBox

        @FXML
        public ComboBox<String> departmentComboBox;

        @FXML
        public ComboBox<String> leaveOptionsComboBox;

        //Medicine
        @FXML
        public CheckBox medicineChecBox;

        @FXML
        public ComboBox<String> medicineComboBox;

        @FXML
        public TextField medicineQuantityTextField;

        @FXML
        public CheckBox injectionChecBox;

        @FXML
        public ComboBox<String> injectionComboBox;

        @FXML
        public TextField injectionQuantityTextField;

        // Error Labels
        @FXML
        private Label nameErrorMessage;

        @FXML
        private Label ageErrorMessage;

        @FXML
        private Label genderErrorMessage;

        @FXML
        private Label deptErrorMessage;

        @FXML
        private Label phoneNoErrorMessage;

        @FXML
        private Label complaintErrorMessage;

        @FXML
        private Label remarksErrorMessage;

        @FXML
        private Label leaveDaysErrorMessage;

        @FXML
        private Label leaveOptionsErrorMessage;
```

```java
129
130    public String sex, time, department, leaveOptions, ampm;
131    public LocalDate date;
132    public Integer lastRegNo;
133
134    //creating array list for ComboBox
135    ObservableList<String>  departmentList = FXCollections.observableArrayList("Management",
       "Administration", "Civil Department", "Architecture Department", "Electrical Department",
       "IT Department", "ECE Department", "S&H Department", "ICT", "Others");
136    ObservableList<String>  leaveOptionList = FXCollections.observableArrayList("No Leave",
       "Bed Rest", "Full Day Leave", "Half Day Leave", "Referred to PGH");
137    ObservableList<String>  medicineList = FXCollections.observableArrayList();
138    ObservableList<String>  injectionList = FXCollections.observableArrayList();
139
140    //method called while class is loaded
141    @Override
142    public void initialize(URL arg0, ResourceBundle arg1) {
143        departmentComboBox.setItems(departmentList);
144        leaveOptionsComboBox.setItems(leaveOptionList);
145        medicineComboBox.setItems(medicineList);
146        injectionComboBox.setItems(injectionList);
147
148        //gets current date and fills up the text field
149        DateSelector.setValue(LocalDate.now());
150        date = DateSelector.getValue();
151
152        //gets current time and fills up the text field
153        String pattern = "hh:mm";
154        timeTextField.setText((LocalTime.now()).format(DateTimeFormatter.ofPattern(pattern)));
155
156        //gets am and pm and selects the radio button
157        String ampmPattern = "hh: mm a";
158        ampm = (LocalTime.now()).format(DateTimeFormatter.ofPattern(ampmPattern));
159        ampm = ampm.substring(6, 7);
160
161        if (ampm.equals("AM")) {
162            amRadioButton.setSelected(true);
163        } else {
164            pmRadioButton.setSelected(true);
165        }
166
167        time = timeTextField.getText() + ampm;
168
169        //calls method to automatically fill up regNo Text field by incrementing the last regNo
           in the database
170        getLastRegNo();
171
172        //fills up medicine Combo Box by selecting available medicines in the database
173        try {
174
175            Connection connection1 =
               DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_system"
               , "root", "root");
176            Statement statement1 = connection1.createStatement();
177
178            String sql = "SELECT * FROM medicine_list;";
179            ResultSet resultset1 = statement1.executeQuery(sql);
180
181            while (resultset1.next()) {
182                String medicineName = resultset1.getString("medicine_name");
183                medicineComboBox.getItems().addAll(medicineName);
184            }
185
186            statement1.close();
```

```java
187                    connection1.close();
188                    resultset1.close();
189
190            }
191
192            catch (SQLException ae) {
193
194                    System.out.println("Error!!! Connection Failed");
195                    ae.printStackTrace();
196
197                    Alert alert = new Alert(Alert.AlertType.ERROR);
198                    alert.setTitle("Error Message");
199                    alert.setHeaderText(null);
200                    alert.setContentText("ERROR fetching Medicine Name from Database!!");
201                    alert.showAndWait();
202
203            }
204
205            //fills up injection Combo Box by selecting available injections in the database
206            try {
207
208                    Connection connection2 =
                       DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_system"
                       , "root", "root");
209                    Statement statement2 = connection2.createStatement();
210
211                    String sql = "SELECT * FROM injection_list;";
212                    ResultSet resultset2 = statement2.executeQuery(sql);
213
214                    while (resultset2.next()) {
215                        String injectionName = resultset2.getString("injection_name");
216                        injectionComboBox.getItems().addAll(injectionName);
217                    }
218
219                    statement2.close();
220                    connection2.close();
221                    resultset2.close();
222
223            }
224
225            catch (SQLException ae) {
226
227                    System.out.println("Error!!! Connection Failed");
228                    ae.printStackTrace();
229
230                    Alert alert = new Alert(Alert.AlertType.ERROR);
231                    alert.setTitle("Error Message");
232                    alert.setHeaderText(null);
233                    alert.setContentText("ERROR fetching Injection Name from Database!!");
234                    alert.showAndWait();
235
236            }
237
238        }
239
240        // stores the item selected in the combo box in a string
241        public void comboChanged (ActionEvent event) throws IOException{
242
243            department = departmentComboBox.getValue();
244            leaveOptions = leaveOptionsComboBox.getValue();
245
246            if (leaveOptions == "No Leave") {
247                leaveDaysTextField.setText("0");
248            }
```

```java
        }

    public void homePage(ActionEvent event) throws IOException {

        Main m = new Main();
        m.changeScene("SelectPatientEntryPage.fxml");

    }

    //gets selected radio button
    public void sexRadioSelect (ActionEvent event) throws IOException {

        if (maleRadioButton.isSelected()) {
            sex = "Male";
        }

        else if (femaleRadioButton.isSelected()) {
            sex = "Female";
        }

    }

    //gets selected radio button
    public void timeRadioSelect (ActionEvent event) throws IOException {

        if (amRadioButton.isSelected()) {
            time = timeTextField.getText() + " AM";
        }

        else if (pmRadioButton.isSelected()) {
            time = timeTextField.getText() + " PM";
        }

    }

    //updates medicine quantity column in database by subtracting the quantity prescribed
    public void medicinePrescribed(ActionEvent event) {

        String medicineName = medicineComboBox.getValue();

        try {

            Connection connection =
            DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_system"
            , "root", "root");

            String sql = "UPDATE medicine_list SET medicine_quantity = (medicine_quantity-?)
            WHERE medicine_name = ?;";

            PreparedStatement statement = connection.prepareStatement(sql);

            statement.setDouble(1, Double.parseDouble(medicineQuantityTextField.getText()));
            statement.setString(2, medicineName);

            statement.executeUpdate();

            statement.close();
            connection.close();

        }

        catch (SQLException ae) {

```

```java
310            System.out.println("Error!!! Connection Failed");
311            ae.printStackTrace();
312
313            Alert alert = new Alert(Alert.AlertType.ERROR);
314            alert.setTitle("Error Message");
315            alert.setHeaderText(null);
316            alert.setContentText("ERROR Prescribing Medicine!!");
317            alert.showAndWait();
318
319        }
320
321    }
322
323    //updates injection quantity column in database by subtracting the quantity prescribed
324    public void prescribeInjection(ActionEvent event) {
325
326        String injectionName = injectionComboBox.getValue();
327
328        try {
329
330            Connection connection =
                 DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_system"
                 , "root", "root");
331
332            String sql = "UPDATE injection_list SET injection_quantity = (injection_quantity-?)
                 WHERE injection_name = ?;";
333
334            PreparedStatement statement = connection.prepareStatement(sql);
335
336            statement.setDouble(1, Double.parseDouble(injectionQuantityTextField.getText()));
337            statement.setString(2, injectionName);
338
339            statement.executeUpdate();
340
341            statement.close();
342            connection.close();
343
344        }
345
346        catch (SQLException ae) {
347
348            System.out.println("Error!!! Connection Failed");
349            ae.printStackTrace();
350
351            Alert alert = new Alert(Alert.AlertType.ERROR);
352            alert.setTitle("Error Message");
353            alert.setHeaderText(null);
354            alert.setContentText("ERROR Prescribing Injection!!");
355            alert.showAndWait();
356
357        }
358
359    }
360
361    //saves details entered in the database
362    public void saveDetails(ActionEvent event) throws IOException {
363
364        boolean  allCorrect = checkAllStaffValues();
365
366        if (allCorrect) {
367
368            try {
369
370                date = DateSelector.getValue();
```

```java
                    Connection connection =
                    DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_sys
                    tem", "root", "root");

                    String sql = "INSERT INTO patient_records_staffs (reg_no, name, sex, age,
                    department, phone_no, date, time, leave_options, no_of_days, complaint,
                    remarks) VALUES (?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?, ?)";

                    PreparedStatement statement = connection.prepareStatement(sql);

                    statement.setInt(1, Integer.parseInt(regNoTextField.getText()));
                    statement.setString(2, nameTextField.getText());
                    statement.setString(3, sex);
                    statement.setInt(4, Integer.parseInt(ageTextField.getText()));
                    statement.setString(5, department);
                    statement.setInt(6, Integer.parseInt(phoneNoTextField.getText()));
                    statement.setString(7, date.toString());
                    statement.setString(8, time);
                    statement.setString(9, leaveOptions);
                    statement.setInt(10, Integer.parseInt(leaveDaysTextField.getText()));
                    statement.setString(11, complaintTextArea.getText());
                    statement.setString(12, remarksTextArea.getText());

                    int rowsInserted = statement.executeUpdate();

                    if (rowsInserted > 0) {
                        Alert alert = new Alert(Alert.AlertType.INFORMATION);
                        alert.setTitle("Message");
                        alert.setHeaderText(null);
                        alert.setContentText("Saved Successfully!");
                        alert.showAndWait();
                    }

                    Main m = new Main();
                    m.changeScene("StaffPatientDetailsEntry.fxml");

                    statement.close();
                    connection.close();

                }

            catch (SQLException ae) {

                    System.out.println("Error!!! Connection Failed");
                    ae.printStackTrace();

                    Alert alert = new Alert(Alert.AlertType.ERROR);
                    alert.setTitle("Error Message");
                    alert.setHeaderText(null);
                    alert.setContentText("ERROR Connecting to MySQL Database!!");
                    alert.showAndWait();

                }
            }
        }

    // checks if all feilds are filled up
    public boolean checkAllStaffValues() {

        boolean checked = false;

        int correct = 0;
```

```java
431            if (nameTextField.getText().isBlank()) {
432                nameErrorMessage.setVisible(true);
433            } else {
434                nameErrorMessage.setVisible(false);
435                correct += 1;
436            }

437
438            if (maleRadioButton.isSelected() || femaleRadioButton.isSelected()) {
439                genderErrorMessage.setVisible(false);
440                correct += 1;
441            } else {
442                genderErrorMessage.setVisible(true);
443            }

444
445            if (ageTextField.getText().isBlank()) {
446                ageErrorMessage.setVisible(true);
447            } else {
448                ageErrorMessage.setVisible(false);
449                correct += 1;
450            }

451
452            if (phoneNoTextField.getText().length() == 8) {
453                phoneNoErrorMessage.setVisible(false);
454                correct += 1;
455            } else {
456                phoneNoErrorMessage.setVisible(true);
457            }

458
459            if (complaintTextArea.getText().isBlank()) {
460                complaintErrorMessage.setVisible(true);
461            } else {
462                complaintErrorMessage.setVisible(false);
463                correct += 1;
464            }

465
466            if (remarksTextArea.getText().isBlank()) {
467                remarksErrorMessage.setVisible(true);
468            } else {
469                remarksErrorMessage.setVisible(false);
470                correct += 1;
471            }

472
473            if (leaveDaysTextField.getText().isBlank()) {
474                leaveDaysErrorMessage.setVisible(true);
475            } else {
476                leaveDaysErrorMessage.setVisible(false);
477                correct += 1;
478            }

479
480            if (department.isEmpty()) {
481                deptErrorMessage.setVisible(true);
482            } else {
483                deptErrorMessage.setVisible(false);
484                correct += 1;
485            }

486
487            if (leaveOptions.isEmpty()) {
488                leaveOptionsErrorMessage.setVisible(true);
489            } else {
490                leaveOptionsErrorMessage.setVisible(false);
491                correct += 1;
492            }

493
494            if (correct >= 9) {
```

```java
495             checked = true;
496         }
497
498         return checked;
499     }
500
501     //gets last regNo from database and increments it to be filled up in the text field
502     public void getLastRegNo() {
503
504         try {
505
506             Connection connection =
                DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_system"
                , "root", "root");
507
508             String sql = "SELECT max(reg_no) from patient_records_staffs;";
509             Statement statement = connection.createStatement();
510             ResultSet resultset = statement.executeQuery(sql);
511
512             if (resultset.next()) {
513                 lastRegNo = resultset.getInt(1);
514                 lastRegNo++;
515                 regNoTextField.setText(lastRegNo.toString());
516             }
517
518             else {
519                 regNoTextField.setText("200");
520             }
521
522             resultset.close();
523             statement.close();
524             connection.close();
525
526         }
527
528         catch (SQLException ae) {
529
530             System.out.println("Error!!! Connection Failed");
531             ae.printStackTrace();
532
533             Alert alert = new Alert(Alert.AlertType.ERROR);
534             alert.setTitle("Error Message");
535             alert.setHeaderText(null);
536             alert.setContentText("ERROR Generating Reg Nos!!");
537             alert.showAndWait();
538
539         }
540     }
541
542     //MenuBar
543
544     //Menu 1 - File
545
546     //Menu Item 1.1
547     public void HomePageMenuItem(ActionEvent event) {
548         MenuBar obj = new MenuBar();
549         obj.HomePage();
550     }
551
552     //Menu Item 1.2
553     public void LogOutMenuItem(ActionEvent event) {
554         MenuBar obj = new MenuBar();
555         obj.LogOut();
556     }
```

```java
        //Menu Item 1.3
        public void ExitMenuItem(ActionEvent event) {
            MenuBar obj = new MenuBar();
            obj.Exit();
        }

        //Menu 2 - View

        //Menu Item 2.1
        public void NewPatientEntryMenuItem(ActionEvent event) {
            MenuBar obj = new MenuBar();
            obj.NewPatientEntry();
        }

        //Menu Item 2.2
        public void ShowPatientRecordMenuItem(ActionEvent event) {
            MenuBar obj = new MenuBar();
            obj.ShowPatientRecord();
        }

        //Menu Item 2.3
        public void MedicineRecordsMenuItem(ActionEvent event) {
            MenuBar obj = new MenuBar();
            obj.MedicineRecords();
        }

        //Menu 3  - Help

        //Menu Item 3.1
        public void CollegeWebsiteLinksMenuItem(ActionEvent event) {
            MenuBar obj = new MenuBar();
            obj.CollegeWebsiteLinks();
        }

        //Menu Item 3.2
        public void AboutMenuItem(ActionEvent event) {
            MenuBar obj = new MenuBar();
            obj.About();
        }

    }
```

```java
package application;

import java.io.IOException;
import java.net.URL;
import java.sql.*;
import java.time.LocalDate;
import java.time.LocalTime;
import java.time.format.DateTimeFormatter;
import java.util.ResourceBundle;

import javafx.collections.FXCollections;
import javafx.collections.ObservableList;
import javafx.event.ActionEvent;
import javafx.fxml.*;
import javafx.fxml.FXML;
import javafx.scene.control.*;

public class OtherPatientDetailsEntryController implements Initializable {

    // Buttons

        @FXML
        private Button backButton;

        @FXML
        private Button saveButton;

        // Patient Details Entry Components

        @FXML
        public TextField nameTextField;

        @FXML
        private TextField regNoTextField;

        @FXML
        private RadioButton maleRadioButton;

        @FXML
        private RadioButton femaleRadioButton;

        @FXML
        private ToggleGroup gender;

        @FXML
        private TextField ageTextField;

        @FXML
        private TextField phoneNoTextField;

        @FXML
        private DatePicker DateSelector;

        @FXML
        private TextField timeTextField;

        @FXML
        private RadioButton amRadioButton;

        @FXML
        private RadioButton pmRadioButton;

        @FXML
        private ToggleGroup timeSelect;
```

```java
        @FXML
        private TextArea complaintTextArea;

        @FXML
        private TextArea remarksTextArea;

        //Medicine
        @FXML
        public CheckBox medicineChecBox;

        @FXML
        public ComboBox<String> medicineComboBox;

        @FXML
        public TextField medicineQuantityTextField;

        @FXML
        public CheckBox injectionChecBox;

        @FXML
        public ComboBox<String> injectionComboBox;

        @FXML
        public TextField injectionQuantityTextField;

        // Error Labels
        @FXML
        private Label nameErrorMessage;

        @FXML
        private Label ageErrorMessage;

        @FXML
        private Label genderErrorMessage;

        @FXML
        private Label phoneNoErrorMessage;

        @FXML
        private Label complaintErrorMessage;

        @FXML
        private Label remarksErrorMessage;

        public String sex, time, ampm;
        public LocalDate date;
        public Integer lastRegNo;

        ObservableList<String>  medicineList = FXCollections.observableArrayList();
        ObservableList<String>  injectionList = FXCollections.observableArrayList();

        @Override
        public void initialize(URL arg0, ResourceBundle arg1) {
            medicineComboBox.setItems(medicineList);
            injectionComboBox.setItems(injectionList);

            //automatic date select in date selector
            DateSelector.setValue(LocalDate.now());
            date = DateSelector.getValue();

            //get time and fill in textfield
            String pattern = "hh:mm";
```

```java
                    timeTextField.setText((LocalTime.now()).format(DateTimeFormatter.ofPattern(pattern)))
                    ;

129
130                 //select radio button according to current time
131                 String ampmPattern = "hh: mm a";
132                 ampm = (LocalTime.now()).format(DateTimeFormatter.ofPattern(ampmPattern));
133                 ampm = ampm.substring(6, 7);

134
135                 if (ampm.equals("AM")) {
136                     amRadioButton.setSelected(true);
137                 } else {
138                     pmRadioButton.setSelected(true);
139                 }

140
141                 time = timeTextField.getText() + ampm;

142
143                 //get last reg no from database
144                 getLastRegNo();

145
146                 //get medicine combo box items from database
147                 try {

148
149                     Connection connection1 =
                        DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_sys
                        tem", "root", "root");
150                     Statement statement1 = connection1.createStatement();

151
152                     String sql = "SELECT * FROM medicine_list;";
153                     ResultSet resultset1 = statement1.executeQuery(sql);

154
155                     while (resultset1.next()) {
156                         String medicineName = resultset1.getString("medicine_name");
157                         medicineComboBox.getItems().addAll(medicineName);
158                     }

159
160                     statement1.close();
161                     connection1.close();
162                     resultset1.close();

163
164                 }

165
166                 catch (SQLException ae) {

167
168                     System.out.println("Error!!! Connection Failed");
169                     ae.printStackTrace();

170
171                     Alert alert = new Alert(Alert.AlertType.ERROR);
172                     alert.setTitle("Error Message");
173                     alert.setHeaderText(null);
174                     alert.setContentText("ERROR fetching Medicine Name from Database!!");
175                     alert.showAndWait();

176
177                 }

178
179                 // injection combo box items from database
180                 try {

181
182                     Connection connection2 =
                        DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_sys
                        tem", "root", "root");
183                     Statement statement2 = connection2.createStatement();

184
185                     String sql = "SELECT * FROM injection_list;";
186                     ResultSet resultset2 = statement2.executeQuery(sql);
```

```java
                while (resultset2.next()) {
                    String injectionName = resultset2.getString("injection_name");
                    injectionComboBox.getItems().addAll(injectionName);
                }

                statement2.close();
                connection2.close();
                resultset2.close();

            }

            catch (SQLException ae) {

                System.out.println("Error!!! Connection Failed");
                ae.printStackTrace();

                Alert alert = new Alert(Alert.AlertType.ERROR);
                alert.setTitle("Error Message");
                alert.setHeaderText(null);
                alert.setContentText("ERROR fetching Injection Name from Database!!");
                alert.showAndWait();

            }

        }

        public void homePage(ActionEvent event) throws IOException {

            Main m = new Main();
            m.changeScene("SelectPatientEntryPage.fxml");

        }

        //get selected radio button
        public void sexRadioSelect (ActionEvent event) throws IOException {

            if (maleRadioButton.isSelected()) {
                sex = "Male";
            }

            else if (femaleRadioButton.isSelected()) {
                sex = "Female";
            }

        }

        public void timeRadioSelect (ActionEvent event) throws IOException {

            if (amRadioButton.isSelected()) {
                time = timeTextField.getText() + " AM";
            }

            else if (pmRadioButton.isSelected()) {
                time = timeTextField.getText() + " PM";
            }

        }

        //update medicine reocrds  table after medicine is presribed
        public void medicinePrescribed(ActionEvent event) {

            String medicineName = medicineComboBox.getValue();
```

```java
251             try {
252
253                     Connection connection =
                        DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_sys
                        tem", "root", "root");
254
255                     String sql = "UPDATE medicine_list SET medicine_quantity =
                        (medicine_quantity-?) WHERE medicine_name = ?;";
256
257                     PreparedStatement statement = connection.prepareStatement(sql);
258
259                     statement.setDouble(1, Double.parseDouble(medicineQuantityTextField.getText()));
260                     statement.setString(2, medicineName);
261
262                     statement.executeUpdate();
263
264                     statement.close();
265                     connection.close();
266
267             }
268
269             catch (SQLException ae) {
270
271                     System.out.println("Error!!! Connection Failed");
272                     ae.printStackTrace();
273
274                     Alert alert = new Alert(Alert.AlertType.ERROR);
275                     alert.setTitle("Error Message");
276                     alert.setHeaderText(null);
277                     alert.setContentText("ERROR Prescribing Medicine!!");
278                     alert.showAndWait();
279
280             }
281
282         }
283
284         //update injection records table when injection is presecribed
285         public void prescribeInjection(ActionEvent event) {
286
287             String injectionName = injectionComboBox.getValue();
288
289             try {
290
291                     Connection connection =
                        DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_sys
                        tem", "root", "root");
292
293                     String sql = "UPDATE injection_list SET injection_quantity =
                        (injection_quantity-?) WHERE injection_name = ?;";
294
295                     PreparedStatement statement = connection.prepareStatement(sql);
296
297                     statement.setDouble(1, Double.parseDouble(injectionQuantityTextField.getText()));
298                     statement.setString(2, injectionName);
299
300                     statement.executeUpdate();
301
302                     statement.close();
303                     connection.close();
304
305             }
306
307             catch (SQLException ae) {
308
```

```java
309                    System.out.println("Error!!! Connection Failed");
310                    ae.printStackTrace();
311
312                    Alert alert = new Alert(Alert.AlertType.ERROR);
313                    alert.setTitle("Error Message");
314                    alert.setHeaderText(null);
315                    alert.setContentText("ERROR Prescribing Injection!!");
316                    alert.showAndWait();
317
318                }
319
320            }
321
322        //save details in database
323        public void saveDetails(ActionEvent event) throws IOException {
324
325            boolean  allCorrect = checkAllStaffValues();
326
327            if (allCorrect) {
328
329                try {
330
331                    date = DateSelector.getValue();
332
333                    Connection connection =
                       DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management
                       _system", "root", "root");
334
335                    String sql = "INSERT INTO patient_records_others (reg_no, name, sex, age,
                       phone_no, date, time, complaint, remarks) VALUES (?, ?, ?, ?, ?, ?, ?, ?,
                       ?)";
336
337                    PreparedStatement statement = connection.prepareStatement(sql);
338
339                    statement.setInt(1, Integer.parseInt(regNoTextField.getText()));
340                    statement.setString(2, nameTextField.getText());
341                    statement.setString(3, sex);
342                    statement.setInt(4, Integer.parseInt(ageTextField.getText()));
343                    statement.setInt(5, Integer.parseInt(phoneNoTextField.getText()));
344                    statement.setString(6, date.toString());
345                    statement.setString(7, time);
346                    statement.setString(8, complaintTextArea.getText());
347                    statement.setString(9, remarksTextArea.getText());
348
349                    int rowsInserted = statement.executeUpdate();
350
351                    if (rowsInserted > 0) {
352                        Alert alert = new Alert(Alert.AlertType.INFORMATION);
353                        alert.setTitle("Message");
354                        alert.setHeaderText(null);
355                        alert.setContentText("Saved Successfully!");
356                        alert.showAndWait();
357                    }
358
359                    Main m = new Main();
360                    m.changeScene("OtherPatientDetailsEntry.fxml");
361
362                    statement.close();
363                    connection.close();
364
365                }
366
367                catch (SQLException ae) {
368
```

```java
369                     System.out.println("Error!!! Connection Failed");
370                     ae.printStackTrace();
371
372                     Alert alert = new Alert(Alert.AlertType.ERROR);
373                     alert.setTitle("Error Message");
374                     alert.setHeaderText(null);
375                     alert.setContentText("ERROR Connecting to MySQL Database!!");
376                     alert.showAndWait();
377
378                 }
379             }
380         }
381
382         //check if all fields are filled
383         public boolean checkAllStaffValues() {
384
385             boolean checked = false;
386
387             int correct = 0;
388
389             if (nameTextField.getText().isBlank()) {
390                 nameErrorMessage.setVisible(true);
391             } else {
392                 nameErrorMessage.setVisible(false);
393                 correct += 1;
394             }
395
396             if (maleRadioButton.isSelected() || femaleRadioButton.isSelected()) {
397                 genderErrorMessage.setVisible(false);
398                 correct += 1;
399             } else {
400                 genderErrorMessage.setVisible(true);
401             }
402
403             if (ageTextField.getText().isBlank()) {
404                 ageErrorMessage.setVisible(true);
405             } else {
406                 ageErrorMessage.setVisible(false);
407                 correct += 1;
408             }
409
410             if (phoneNoTextField.getText().length() == 8) {
411                 phoneNoErrorMessage.setVisible(false);
412                 correct += 1;
413             } else {
414                 phoneNoErrorMessage.setVisible(true);
415             }
416
417             if (complaintTextArea.getText().isBlank()) {
418                 complaintErrorMessage.setVisible(true);
419             } else {
420                 complaintErrorMessage.setVisible(false);
421                 correct += 1;
422             }
423
424             if (remarksTextArea.getText().isBlank()) {
425                 remarksErrorMessage.setVisible(true);
426             } else {
427                 remarksErrorMessage.setVisible(false);
428                 correct += 1;
429             }
430
431             if (correct >= 6) {
432                 checked = true;
```

```java
433                    }
434
435                    return checked;
436                }
437
438            //get last reg no from database, increment it and update the reg no text field
439            public void getLastRegNo() {
440
441                try {
442
443                        Connection connection =
444                        DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_sys
445                        tem", "root", "root");
446
447                        String sql = "SELECT max(reg_no) from patient_records_others;";
448                        Statement statement = connection.createStatement();
449                        ResultSet resultset = statement.executeQuery(sql);
450
451                        if (resultset.next()) {
452                            lastRegNo = resultset.getInt(1);
453                            lastRegNo++;
454                            regNoTextField.setText(lastRegNo.toString());
455                        }
456
457                        else {
458                            regNoTextField.setText("300");
459                        }
460
461                        resultset.close();
462                        statement.close();
463                        connection.close();
464
465                    }
466
467                catch (SQLException ae) {
468
469                        System.out.println("Error!!! Connection Failed");
470                        ae.printStackTrace();
471
472                        Alert alert = new Alert(Alert.AlertType.ERROR);
473                        alert.setTitle("Error Message");
474                        alert.setHeaderText(null);
475                        alert.setContentText("ERROR Generating Reg Nos!!");
476                        alert.showAndWait();
477
478                    }
479                }
480
481        //MenuBar
482
483        //Menu 1 - File
484
485        //Menu Item 1.1
486        public void HomePageMenuItem(ActionEvent event) {
487            MenuBar obj = new MenuBar();
488            obj.HomePage();
489        }
490
491        //Menu Item 1.2
492        public void LogOutMenuItem(ActionEvent event) {
493            MenuBar obj = new MenuBar();
494            obj.LogOut();
495        }
```

```java
    //Menu Item 1.3
    public void ExitMenuItem(ActionEvent event) {
        MenuBar obj = new MenuBar();
        obj.Exit();
    }

    //Menu 2 - View

    //Menu Item 2.1
    public void NewPatientEntryMenuItem(ActionEvent event) {
        MenuBar obj = new MenuBar();
        obj.NewPatientEntry();
    }

    //Menu Item 2.2
    public void ShowPatientRecordMenuItem(ActionEvent event) {
        MenuBar obj = new MenuBar();
        obj.ShowPatientRecord();
    }

    //Menu Item 2.3
    public void MedicineRecordsMenuItem(ActionEvent event) {
        MenuBar obj = new MenuBar();
        obj.MedicineRecords();
    }

    //Menu 3  - Help

    //Menu Item 3.1
    public void CollegeWebsiteLinksMenuItem(ActionEvent event) {
        MenuBar obj = new MenuBar();
        obj.CollegeWebsiteLinks();
    }

    //Menu Item 3.2
    public void AboutMenuItem(ActionEvent event) {
        MenuBar obj = new MenuBar();
        obj.About();
    }

}
```

```java
package application;

import java.io.IOException;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;

import javafx.collections.FXCollections;
import javafx.collections.ObservableList;
import javafx.event.ActionEvent;
import javafx.fxml.FXML;
import javafx.scene.control.Alert;
import javafx.scene.control.Button;
import javafx.scene.control.ButtonType;
import javafx.scene.control.TableColumn;
import javafx.scene.control.TableView;
import javafx.scene.control.TextField;

public class PatientRecordsController {


    //table columns and table
    @FXML
    public TableView<Patient> recordsTable;
    @FXML
    public TableColumn<Patient, Integer> col_regNo;
    @FXML
    public TableColumn<Patient, String> col_name;
    @FXML
    public TableColumn<Patient, Integer> col_stdNo;
    @FXML
    public TableColumn<Patient, Integer> col_year;
    @FXML
    public TableColumn<Patient, String> col_course;
    @FXML
    public TableColumn<Patient, String> col_dept;
    @FXML
    public TableColumn<Patient, String> col_sex;
    @FXML
    public TableColumn<Patient, Integer> col_age;
    @FXML
    public TableColumn<Patient, Integer> col_phoneNo;
    @FXML
    public TableColumn<Patient, String> col_date;
    @FXML
    public TableColumn<Patient, String> col_time;
    @FXML
    public TableColumn<Patient, String> col_leaveOptions;
    @FXML
    public TableColumn<Patient, Integer> col_leaveDays;
    @FXML
    public TableColumn<Patient, String> col_complaint;
    @FXML
    public TableColumn<Patient, String> col_remarks;

    @FXML
    private Button backButton;

    @FXML
    private Button logoutButton;

```

```java
65        @FXML
66        private TextField filterByTextField;
67
68        @FXML
69        private Button searchButton;
70
71        @FXML
72        private Button refreshButton;
73
74        @FXML
75        private Button deleteButton;
76
77        public void backToHomePage(ActionEvent event) throws IOException {
78
79            Main m = new Main();
80            m.changeScene("SelectPatientRecordsPage.fxml");
81
82        }
83
84        public void logout(ActionEvent event) throws IOException {
85
86            Alert alert = new Alert(Alert.AlertType.CONFIRMATION);
87            alert.setTitle("Logout");
88            alert.setHeaderText(null);
89            alert.setContentText("Are you sure you want to Logout?");
90            if (alert.showAndWait().get() == ButtonType.OK){
91                Main m = new Main();
92                m.changeScene("LoginPage.fxml");
93            }
94        }
95
96        //filters table data
97        public void filterTable(ActionEvent event) throws IOException {
98
99            col_regNo.setCellValueFactory(cellData -> cellData.getValue().get_RegNo().asObject());
100           col_name.setCellValueFactory(cellData -> cellData.getValue().get_Name());
101           col_stdNo.setCellValueFactory(cellData -> cellData.getValue().get_StdNo().asObject());
102           col_sex.setCellValueFactory(cellData -> cellData.getValue().get_Sex());
103           col_age.setCellValueFactory(cellData -> cellData.getValue().get_Age().asObject());
104           col_year.setCellValueFactory(cellData -> cellData.getValue().get_Year().asObject());
105           col_course.setCellValueFactory(cellData -> cellData.getValue().get_Course());
106           col_dept.setCellValueFactory(cellData -> cellData.getValue().get_Dept());
107           col_phoneNo.setCellValueFactory(cellData ->
                  cellData.getValue().get_PhoneNo().asObject());
108           col_date.setCellValueFactory(cellData -> cellData.getValue().get_Date());
109           col_time.setCellValueFactory(cellData -> cellData.getValue().get_Time());
110           col_leaveOptions.setCellValueFactory(cellData -> cellData.getValue().get_leaveOptions());
111           col_leaveDays.setCellValueFactory(cellData ->
                  cellData.getValue().get_LeaveDays().asObject());
112           col_complaint.setCellValueFactory(cellData -> cellData.getValue().get_Complaint());
113           col_remarks.setCellValueFactory(cellData -> cellData.getValue().get_Remarks());
114
115           ObservableList<Patient> patientList = searchPatient(filterByTextField.getText());
116           populateTable(patientList);
117
118       }
119
120       //search patient details from database and passes it as a list to display it
121       public static ObservableList<Patient> searchPatient(String str) {
122
123           ObservableList<Patient> patientList = FXCollections.observableArrayList();
124
125           try {
126
```

```java
127            Connection connection =
               DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_system"
               , "root", "root");
128            Statement statement = connection.createStatement();
129
130            String sql = "SELECT * FROM patient_records WHERE '" + str + "' IN (reg_no, name,
               student_no, sex, age, year, course, department, phone_no, date, time,
               leave_options, no_of_days, complaint, remarks);";
131            ResultSet resultset = statement.executeQuery(sql);
132
133            patientList = getPatientObject(resultset);
134
135        }
136
137        catch (SQLException ae) {
138
139            System.out.println("Error!!! Connection Failed");
140            ae.printStackTrace();
141
142            Alert alert = new Alert(Alert.AlertType.ERROR);
143            alert.setTitle("Error Message");
144            alert.setHeaderText(null);
145            alert.setContentText("ERROR Searching for '" + str + "' in the Database!!!");
146            alert.showAndWait();
147
148        }
149
150        return patientList;
151
152    }
153
154    @FXML
155    public void initialize() throws Exception {
156
157        filterByTextField.setText(null);
158
159        //get column data
160        col_regNo.setCellValueFactory(cellData -> cellData.getValue().get_RegNo().asObject());
161        col_name.setCellValueFactory(cellData -> cellData.getValue().get_Name());
162        col_stdNo.setCellValueFactory(cellData -> cellData.getValue().get_StdNo().asObject());
163        col_sex.setCellValueFactory(cellData -> cellData.getValue().get_Sex());
164        col_age.setCellValueFactory(cellData -> cellData.getValue().get_Age().asObject());
165        col_year.setCellValueFactory(cellData -> cellData.getValue().get_Year().asObject());
166        col_course.setCellValueFactory(cellData -> cellData.getValue().get_Course());
167        col_dept.setCellValueFactory(cellData -> cellData.getValue().get_Dept());
168        col_phoneNo.setCellValueFactory(cellData ->
               cellData.getValue().get_PhoneNo().asObject());
169        col_date.setCellValueFactory(cellData -> cellData.getValue().get_Date());
170        col_time.setCellValueFactory(cellData -> cellData.getValue().get_Time());
171        col_leaveOptions.setCellValueFactory(cellData -> cellData.getValue().get_leaveOptions());
172        col_leaveDays.setCellValueFactory(cellData ->
               cellData.getValue().get_LeaveDays().asObject());
173        col_complaint.setCellValueFactory(cellData -> cellData.getValue().get_Complaint());
174        col_remarks.setCellValueFactory(cellData -> cellData.getValue().get_Remarks());
175
176        ObservableList<Patient> patientList = getPatientRecords();
177        populateTable(patientList);
178
179    }
180
181    //add lists to table
182    public void populateTable (ObservableList<Patient> patientList) {
183        recordsTable.setItems(patientList);
184    }
```

```java
185
186        //selects all data from database
187        public static ObservableList<Patient> getPatientRecords() {
188
189            ObservableList<Patient> patientList = FXCollections.observableArrayList();
190
191            try {
192
193                Connection connection =
                     DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_system"
                     , "root", "root");
194                Statement statement = connection.createStatement();
195
196                String sql = "SELECT * FROM patient_records;";
197                ResultSet resultset = statement.executeQuery(sql);
198
199                patientList = getPatientObject(resultset);
200
201            }
202
203            catch (SQLException ae) {
204
205                System.out.println("Error!!! Connection Failed");
206                ae.printStackTrace();
207
208                Alert alert = new Alert(Alert.AlertType.ERROR);
209                alert.setTitle("Error Message");
210                alert.setHeaderText(null);
211                alert.setContentText("ERROR Connecting to MySQL Database!!");
212                alert.showAndWait();
213
214            }
215
216            return patientList;
217
218        }
219
220
221        //gets each column data
222        public static ObservableList<Patient> getPatientObject(ResultSet resultset) {
223
224            ObservableList<Patient> patientRecordList = FXCollections.observableArrayList();
225
226            try {
227
228                int count = 0;
229
230                while (resultset.next()) {
231
232                    count++;
233
234                    Patient obj = new Patient();
235
236                    obj.setRegNo(resultset.getInt("reg_no"));
237                    obj.setName(resultset.getString("name"));
238                    obj.setStdNo(resultset.getInt("student_no"));
239                    obj.setSex(resultset.getString("sex"));
240                    obj.setAge(resultset.getInt("age"));
241                    obj.setYear(resultset.getInt("year"));
242                    obj.setCourse(resultset.getString("course"));
243                    obj.setDept(resultset.getString("department"));
244                    obj.setPhoneNo(resultset.getInt("phone_no"));
245                    obj.setDate(resultset.getString("date"));
246                    obj.setTime(resultset.getString("time"));
```

```java
247                    obj.setLeaveOptions(resultset.getString("leave_options"));
248                    obj.setLeaveDays(resultset.getInt("no_of_days"));
249                    obj.setComplaint(resultset.getString("complaint"));
250                    obj.setRemarks(resultset.getString("remarks"));
251
252                    patientRecordList.add(obj);
253
254                }
255
256            if (count==0) {
257
258                    new Main().changeScene("PatientRecords.fxml");
259
260                    Alert alert = new Alert(Alert.AlertType.ERROR);
261                    alert.setTitle("Error Message");
262                    alert.setHeaderText(null);
263                    alert.setContentText("No Data in MySQL Database!!");
264                    alert.showAndWait();
265                }
266
267            }
268
269        catch (SQLException ae) {
270
271                System.out.println("Error!!! Connection Failed");
272                ae.printStackTrace();
273
274                Alert alert = new Alert(Alert.AlertType.ERROR);
275                alert.setTitle("Error Message");
276                alert.setHeaderText(null);
277                alert.setContentText("ERROR Retriving Data from MySQL Database!!");
278                alert.showAndWait();
279
280            }
281        return patientRecordList;
282
283    }
284
285    //deletes selected row from database by passing regNo
286    public void deleteRow(ActionEvent event) throws IOException, NullPointerException{
287
288        Patient selectedRow = null;
289        int regNoValue;
290
291        try {
292
293            selectedRow = recordsTable.getSelectionModel().getSelectedItem();
294            regNoValue = selectedRow.getRegNo();
295
296            Connection connection =
                 DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_system"
                 , "root", "root");
297
298            String sql = "DELETE FROM patient_records WHERE reg_no = ?;";
299
300            PreparedStatement statement = connection.prepareStatement(sql);
301
302            statement.setInt(1, regNoValue);
303            statement.execute();
304
305            new Main().changeScene("PatientRecords.fxml");
306
307        }
308
```

```java
309          catch (SQLException ae) {
310
311              System.out.println("Error!!! Connection Failed");
312              ae.printStackTrace();
313
314              Alert alert = new Alert(Alert.AlertType.ERROR);
315              alert.setTitle("Error Message");
316              alert.setHeaderText(null);
317              alert.setContentText("ERROR Deleting Selected Row!!");
318              alert.showAndWait();
319
320          }
321
322          catch (NullPointerException ae) {
323
324              System.out.println("Error!!! Retriving Reg_No");
325              ae.printStackTrace();
326
327              Alert alert = new Alert(Alert.AlertType.ERROR);
328              alert.setTitle("Error Message");
329              alert.setHeaderText(null);
330              alert.setContentText("ERROR!!! Please Select a  Row!!");
331              alert.showAndWait();
332
333          }
334
335      }
336
337      //MenuBar
338
339      //Menu 1 - File
340
341      //Menu Item 1.1
342      public void HomePageMenuItem(ActionEvent event) {
343          MenuBar obj = new MenuBar();
344          obj.HomePage();
345      }
346
347      //Menu Item 1.2
348      public void LogOutMenuItem(ActionEvent event) {
349          MenuBar obj = new MenuBar();
350          obj.LogOut();
351      }
352
353      //Menu Item 1.3
354      public void ExitMenuItem(ActionEvent event) {
355          MenuBar obj = new MenuBar();
356          obj.Exit();
357      }
358
359      //Menu 2 - View
360
361      //Menu Item 2.1
362      public void NewPatientEntryMenuItem(ActionEvent event) {
363          MenuBar obj = new MenuBar();
364          obj.NewPatientEntry();
365      }
366
367      //Menu Item 2.2
368      public void ShowPatientRecordMenuItem(ActionEvent event) {
369          MenuBar obj = new MenuBar();
370          obj.ShowPatientRecord();
371      }
372
```

```java
373        //Menu Item 2.3
374        public void MedicineRecordsMenuItem(ActionEvent event) {
375            MenuBar obj = new MenuBar();
376            obj.MedicineRecords();
377        }
378
379        //Menu 3  - Help
380
381        //Menu Item 3.1
382        public void CollegeWebsiteLinksMenuItem(ActionEvent event) {
383            MenuBar obj = new MenuBar();
384            obj.CollegeWebsiteLinks();
385        }
386
387        //Menu Item 3.2
388        public void AboutMenuItem(ActionEvent event) {
389            MenuBar obj = new MenuBar();
390            obj.About();
391        }
392
393   }
```

```java
1   package application;
2
3   import java.io.IOException;
4   import java.sql.Connection;
5   import java.sql.DriverManager;
6   import java.sql.PreparedStatement;
7   import java.sql.ResultSet;
8   import java.sql.SQLException;
9   import java.sql.Statement;
10
11  import javafx.collections.FXCollections;
12  import javafx.collections.ObservableList;
13  import javafx.event.ActionEvent;
14  import javafx.fxml.FXML;
15  import javafx.scene.control.Alert;
16  import javafx.scene.control.Button;
17  import javafx.scene.control.ButtonType;
18  import javafx.scene.control.TableColumn;
19  import javafx.scene.control.TableView;
20  import javafx.scene.control.TextField;
21
22  public class StaffPatientRecordsController {
23
24      //Importing Table and Table Columns
25
26      @FXML
27      public TableView<StaffPatient> recordsTable;
28      @FXML
29      public TableColumn<StaffPatient, Integer> col_regNo;
30      @FXML
31      public TableColumn<StaffPatient, String> col_name;
32      @FXML
33      public TableColumn<StaffPatient, String> col_dept;
34      @FXML
35      public TableColumn<StaffPatient, String> col_sex;
36      @FXML
37      public TableColumn<StaffPatient, Integer> col_age;
38      @FXML
39      public TableColumn<StaffPatient, Integer> col_phoneNo;
40      @FXML
41      public TableColumn<StaffPatient, String> col_date;
42      @FXML
43      public TableColumn<StaffPatient, String> col_time;
44      @FXML
45      public TableColumn<StaffPatient, String> col_leaveOptions;
46      @FXML
47      public TableColumn<StaffPatient, Integer> col_leaveDays;
48      @FXML
49      public TableColumn<StaffPatient, String> col_complaint;
50      @FXML
51      public TableColumn<StaffPatient, String> col_remarks;
52
53      @FXML
54      private Button backButton;
55
56      @FXML
57      private Button logoutButton;
58
59      @FXML
60      private TextField filterByTextField;
61
62      @FXML
63      private Button searchButton;
64
```

```java
65        @FXML
66        private Button refreshButton;
67
68        @FXML
69        private Button deleteButton;
70
71        public void backToHomePage(ActionEvent event) throws IOException {
72
73            Main m = new Main();
74            m.changeScene("SelectPatientRecordsPage.fxml");
75
76        }
77
78        public void logout(ActionEvent event) throws IOException {
79
80            Alert alert = new Alert(Alert.AlertType.CONFIRMATION);
81            alert.setTitle("Logout");
82            alert.setHeaderText(null);
83            alert.setContentText("Are you sure you want to Logout?");
84            if (alert.showAndWait().get() == ButtonType.OK){
85                Main m = new Main();
86                m.changeScene("LoginPage.fxml");
87            }
88        }
89
90        //method to display filtered data
91        public void filterTable(ActionEvent event) throws IOException {
92
93            col_regNo.setCellValueFactory(cellData -> cellData.getValue().get_RegNo().asObject());
94            col_name.setCellValueFactory(cellData -> cellData.getValue().get_Name());
95            col_sex.setCellValueFactory(cellData -> cellData.getValue().get_Sex());
96            col_age.setCellValueFactory(cellData -> cellData.getValue().get_Age().asObject());
97            col_dept.setCellValueFactory(cellData -> cellData.getValue().get_Dept());
98            col_phoneNo.setCellValueFactory(cellData ->
                cellData.getValue().get_PhoneNo().asObject());
99            col_date.setCellValueFactory(cellData -> cellData.getValue().get_Date());
100           col_time.setCellValueFactory(cellData -> cellData.getValue().get_Time());
101           col_leaveOptions.setCellValueFactory(cellData -> cellData.getValue().get_leaveOptions());
102           col_leaveDays.setCellValueFactory(cellData ->
                cellData.getValue().get_LeaveDays().asObject());
103           col_complaint.setCellValueFactory(cellData -> cellData.getValue().get_Complaint());
104           col_remarks.setCellValueFactory(cellData -> cellData.getValue().get_Remarks());
105
106           //calling search method by passing the string entered in the text field
107           ObservableList<StaffPatient> patientList = searchPatient(filterByTextField.getText());
108           populateTable(patientList);
109
110       }
111
112       //search passed string in any column of database
113       public static ObservableList<StaffPatient> searchPatient(String str) {
114
115           ObservableList<StaffPatient> patientList = FXCollections.observableArrayList();
116
117           try {
118
119               Connection connection =
                DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_system"
                , "root", "root");
120               Statement statement = connection.createStatement();
121
122               String sql = "SELECT * FROM patient_records_staffs WHERE '" + str + "' IN (reg_no,
                name, sex, age, department, phone_no, date, time, leave_options, no_of_days,
                complaint, remarks);";
```

```java
123            ResultSet resultset = statement.executeQuery(sql);

124

125            patientList = getPatientObject(resultset);

126

127        }

128

129        catch (SQLException ae) {

130

131            System.out.println("Error!!! Connection Failed");

132            ae.printStackTrace();

133

134            Alert alert = new Alert(Alert.AlertType.ERROR);

135            alert.setTitle("Error Message");

136            alert.setHeaderText(null);

137            alert.setContentText("ERROR Searching for '" + str + "' in the Database!!!");

138            alert.showAndWait();

139

140        }

141

142        return patientList;

143

144    }

145

146    //method called to add data in columns while class is loaded

147    @FXML

148    public void initialize() throws Exception {

149

150        filterByTextField.setText(null);

151

152        col_regNo.setCellValueFactory(cellData -> cellData.getValue().get_RegNo().asObject());

153        col_name.setCellValueFactory(cellData -> cellData.getValue().get_Name());

154        col_sex.setCellValueFactory(cellData -> cellData.getValue().get_Sex());

155        col_age.setCellValueFactory(cellData -> cellData.getValue().get_Age().asObject());

156        col_dept.setCellValueFactory(cellData -> cellData.getValue().get_Dept());

157        col_phoneNo.setCellValueFactory(cellData ->
           cellData.getValue().get_PhoneNo().asObject());

158        col_date.setCellValueFactory(cellData -> cellData.getValue().get_Date());

159        col_time.setCellValueFactory(cellData -> cellData.getValue().get_Time());

160        col_leaveOptions.setCellValueFactory(cellData -> cellData.getValue().get_leaveOptions());

161        col_leaveDays.setCellValueFactory(cellData ->
           cellData.getValue().get_LeaveDays().asObject());

162        col_complaint.setCellValueFactory(cellData -> cellData.getValue().get_Complaint());

163        col_remarks.setCellValueFactory(cellData -> cellData.getValue().get_Remarks());

164

165        ObservableList<StaffPatient> patientList = getPatientRecords();

166        populateTable(patientList);

167

168    }

169

170    //method to add all items to table

171    public void populateTable (ObservableList<StaffPatient> patientList) {

172        recordsTable.setItems(patientList);

173    }

174

175    //get table data from database

176    public static ObservableList<StaffPatient> getPatientRecords() {

177

178        ObservableList<StaffPatient> patientList = FXCollections.observableArrayList();

179

180        try {

181

182            Connection connection =
           DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_system"
           , "root", "root");
```

```java
            Statement statement = connection.createStatement();

            String sql = "SELECT * FROM patient_records_staffs;";
            ResultSet resultset = statement.executeQuery(sql);

            patientList = getPatientObject(resultset);

        }

    catch (SQLException ae) {

            System.out.println("Error!!! Connection Failed");
            ae.printStackTrace();

            Alert alert = new Alert(Alert.AlertType.ERROR);
            alert.setTitle("Error Message");
            alert.setHeaderText(null);
            alert.setContentText("ERROR Connecting to MySQL Database!!");
            alert.showAndWait();

        }

    return patientList;

    }

    //assign data to columns
    public static ObservableList<StaffPatient> getPatientObject(ResultSet resultset) {

        ObservableList<StaffPatient> patientRecordList = FXCollections.observableArrayList();

        try {

            int count = 0;

            while (resultset.next()) {

                count++;

                StaffPatient obj = new StaffPatient();

                obj.setRegNo(resultset.getInt("reg_no"));
                obj.setName(resultset.getString("name"));
                obj.setSex(resultset.getString("sex"));
                obj.setAge(resultset.getInt("age"));
                obj.setDept(resultset.getString("department"));
                obj.setPhoneNo(resultset.getInt("phone_no"));
                obj.setDate(resultset.getString("date"));
                obj.setTime(resultset.getString("time"));
                obj.setLeaveOptions(resultset.getString("leave_options"));
                obj.setLeaveDays(resultset.getInt("no_of_days"));
                obj.setComplaint(resultset.getString("complaint"));
                obj.setRemarks(resultset.getString("remarks"));

                patientRecordList.add(obj);

            }

            if (count==0) {

                new Main().changeScene("StaffPatientRecords.fxml");

                Alert alert = new Alert(Alert.AlertType.ERROR);
                alert.setTitle("Error Message");
```

```java
247                    alert.setHeaderText(null);
248                    alert.setContentText("No Data in MySQL Database!!");
249                    alert.showAndWait();
250                }

252            }

254        catch (SQLException ae) {

256                System.out.println("Error!!! Connection Failed");
257                ae.printStackTrace();

259                Alert alert = new Alert(Alert.AlertType.ERROR);
260                alert.setTitle("Error Message");
261                alert.setHeaderText(null);
262                alert.setContentText("ERROR Retriving Data from MySQL Database!!");
263                alert.showAndWait();

265            }
266            return patientRecordList;

268        }

270        //method to delete selected row from database and table view
271        public void deleteRow(ActionEvent event) throws IOException, NullPointerException{

273            StaffPatient selectedRow = null;
274            int regNoValue;

276            try {

278                selectedRow = recordsTable.getSelectionModel().getSelectedItem();
279                regNoValue = selectedRow.getRegNo();

281                Connection connection =
                    DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_system"
                    , "root", "root");

283                String sql = "DELETE FROM patient_records_staffs WHERE reg_no = ?;";

285                PreparedStatement statement = connection.prepareStatement(sql);

287                statement.setInt(1, regNoValue);
288                statement.execute();

290                new Main().changeScene("StaffPatientRecords.fxml");

292            }

294        catch (SQLException ae) {

296                System.out.println("Error!!! Connection Failed");
297                ae.printStackTrace();

299                Alert alert = new Alert(Alert.AlertType.ERROR);
300                alert.setTitle("Error Message");
301                alert.setHeaderText(null);
302                alert.setContentText("ERROR Deleting Selected Row!!");
303                alert.showAndWait();

305            }

307        catch (NullPointerException ae) {
308
```

```java
309            System.out.println("Error!!! Retriving Reg_No");
310            ae.printStackTrace();
311
312            Alert alert = new Alert(Alert.AlertType.ERROR);
313            alert.setTitle("Error Message");
314            alert.setHeaderText(null);
315            alert.setContentText("ERROR!!! Please Select a  Row!!");
316            alert.showAndWait();
317
318        }
319
320    }
321
322    //MenuBar
323
324    //Menu 1 - File
325
326    //Menu Item 1.1
327    public void HomePageMenuItem(ActionEvent event) {
328        MenuBar obj = new MenuBar();
329        obj.HomePage();
330    }
331
332    //Menu Item 1.2
333    public void LogOutMenuItem(ActionEvent event) {
334        MenuBar obj = new MenuBar();
335        obj.LogOut();
336    }
337
338    //Menu Item 1.3
339    public void ExitMenuItem(ActionEvent event) {
340        MenuBar obj = new MenuBar();
341        obj.Exit();
342    }
343
344    //Menu 2 - View
345
346    //Menu Item 2.1
347    public void NewPatientEntryMenuItem(ActionEvent event) {
348        MenuBar obj = new MenuBar();
349        obj.NewPatientEntry();
350    }
351
352    //Menu Item 2.2
353    public void ShowPatientRecordMenuItem(ActionEvent event) {
354        MenuBar obj = new MenuBar();
355        obj.ShowPatientRecord();
356    }
357
358    //Menu Item 2.3
359    public void MedicineRecordsMenuItem(ActionEvent event) {
360        MenuBar obj = new MenuBar();
361        obj.MedicineRecords();
362    }
363
364    //Menu 3  - Help
365
366    //Menu Item 3.1
367    public void CollegeWebsiteLinksMenuItem(ActionEvent event) {
368        MenuBar obj = new MenuBar();
369        obj.CollegeWebsiteLinks();
370    }
371
372    //Menu Item 3.2
```

```java
373        public void AboutMenuItem(ActionEvent event) {
374            MenuBar obj = new MenuBar();
375            obj.About();
376        }
377
378    }
```

```java
1    package application;
2
3    import java.io.IOException;
4    import java.sql.Connection;
5    import java.sql.DriverManager;
6    import java.sql.PreparedStatement;
7    import java.sql.ResultSet;
8    import java.sql.SQLException;
9    import java.sql.Statement;
10
11   import javafx.collections.FXCollections;
12   import javafx.collections.ObservableList;
13   import javafx.event.ActionEvent;
14   import javafx.fxml.FXML;
15   import javafx.scene.control.Alert;
16   import javafx.scene.control.Button;
17   import javafx.scene.control.ButtonType;
18   import javafx.scene.control.TableColumn;
19   import javafx.scene.control.TableView;
20   import javafx.scene.control.TextField;
21
22   public class OtherPatientRecordsController {
23
24       //table columns and table
25       @FXML
26       public TableView<OtherPatient> recordsTable;
27       @FXML
28       public TableColumn<OtherPatient, Integer> col_regNo;
29       @FXML
30       public TableColumn<OtherPatient, String> col_name;
31       @FXML
32       public TableColumn<OtherPatient, String> col_sex;
33       @FXML
34       public TableColumn<OtherPatient, Integer> col_age;
35       @FXML
36       public TableColumn<OtherPatient, Integer> col_phoneNo;
37       @FXML
38       public TableColumn<OtherPatient, String> col_date;
39       @FXML
40       public TableColumn<OtherPatient, String> col_time;
41       @FXML
42       public TableColumn<OtherPatient, String> col_complaint;
43       @FXML
44       public TableColumn<OtherPatient, String> col_remarks;
45
46       @FXML
47       private Button backButton;
48
49       @FXML
50       private Button logoutButton;
51
52       @FXML
53       private TextField filterByTextField;
54
55       @FXML
56       private Button searchButton;
57
58       @FXML
59       private Button refreshButton;
60
61       @FXML
62       private Button deleteButton;
63
64       public void backToHomePage(ActionEvent event) throws IOException {
```

```java
        Main m = new Main();
        m.changeScene("SelectPatientRecordsPage.fxml");

    }

    public void logout(ActionEvent event) throws IOException {

        Alert alert = new Alert(Alert.AlertType.CONFIRMATION);
        alert.setTitle("Logout");
        alert.setHeaderText(null);
        alert.setContentText("Are you sure you want to Logout?");
        if (alert.showAndWait().get() == ButtonType.OK){
            Main m = new Main();
            m.changeScene("LoginPage.fxml");
        }
    }

    //show filtered data
    public void filterTable(ActionEvent event) throws IOException {

        col_regNo.setCellValueFactory(cellData -> cellData.getValue().get_RegNo().asObject());
        col_name.setCellValueFactory(cellData -> cellData.getValue().get_Name());
        col_sex.setCellValueFactory(cellData -> cellData.getValue().get_Sex());
        col_age.setCellValueFactory(cellData -> cellData.getValue().get_Age().asObject());
        col_phoneNo.setCellValueFactory(cellData ->
        cellData.getValue().get_PhoneNo().asObject());
        col_date.setCellValueFactory(cellData -> cellData.getValue().get_Date());
        col_time.setCellValueFactory(cellData -> cellData.getValue().get_Time());
        col_complaint.setCellValueFactory(cellData -> cellData.getValue().get_Complaint());
        col_remarks.setCellValueFactory(cellData -> cellData.getValue().get_Remarks());

        ObservableList<OtherPatient> patientList = searchPatient(filterByTextField.getText());
        populateTable(patientList);

    }

    //search patient form database
    public static ObservableList<OtherPatient> searchPatient(String str) {

        ObservableList<OtherPatient> patientList = FXCollections.observableArrayList();

        try {

            Connection connection =
            DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_system"
            , "root", "root");
            Statement statement = connection.createStatement();

            String sql = "SELECT * FROM patient_records_others WHERE '" + str + "' IN (reg_no,
            name, sex, age, phone_no, date, time, complaint, remarks);";
            ResultSet resultset = statement.executeQuery(sql);

            patientList = getPatientObject(resultset);

        }

        catch (SQLException ae) {

            System.out.println("Error!!! Connection Failed");
            ae.printStackTrace();

            Alert alert = new Alert(Alert.AlertType.ERROR);
            alert.setTitle("Error Message");
```

```java
125            alert.setHeaderText(null);
126            alert.setContentText("ERROR Searching for '" + str + "' in the Database!!!");
127            alert.showAndWait();
128
129        }
130
131        return patientList;
132
133    }
134
135    @FXML
136    public void initialize() throws Exception {
137
138        filterByTextField.setText(null);
139
140        //get column data
141        col_regNo.setCellValueFactory(cellData -> cellData.getValue().get_RegNo().asObject());
142        col_name.setCellValueFactory(cellData -> cellData.getValue().get_Name());
143        col_sex.setCellValueFactory(cellData -> cellData.getValue().get_Sex());
144        col_age.setCellValueFactory(cellData -> cellData.getValue().get_Age().asObject());
145        col_phoneNo.setCellValueFactory(cellData ->
            cellData.getValue().get_PhoneNo().asObject());
146        col_date.setCellValueFactory(cellData -> cellData.getValue().get_Date());
147        col_time.setCellValueFactory(cellData -> cellData.getValue().get_Time());
148        col_complaint.setCellValueFactory(cellData -> cellData.getValue().get_Complaint());
149        col_remarks.setCellValueFactory(cellData -> cellData.getValue().get_Remarks());
150
151        ObservableList<OtherPatient> patientList = getPatientRecords();
152        populateTable(patientList);
153
154    }
155
156    //add items to table
157    public void populateTable (ObservableList<OtherPatient> patientList) {
158        recordsTable.setItems(patientList);
159    }
160
161    //get patient records from database
162    public static ObservableList<OtherPatient> getPatientRecords() {
163
164        ObservableList<OtherPatient> patientList = FXCollections.observableArrayList();
165
166        try {
167
168            Connection connection =
                DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_system"
                , "root", "root");
169            Statement statement = connection.createStatement();
170
171            String sql = "SELECT * FROM patient_records_others;";
172            ResultSet resultset = statement.executeQuery(sql);
173
174            patientList = getPatientObject(resultset);
175
176        }
177
178        catch (SQLException ae) {
179
180            System.out.println("Error!!! Connection Failed");
181            ae.printStackTrace();
182
183            Alert alert = new Alert(Alert.AlertType.ERROR);
184            alert.setTitle("Error Message");
185            alert.setHeaderText(null);
```

```java
186            alert.setContentText("ERROR Connecting to MySQL Database!!");
187            alert.showAndWait();
188
189        }
190
191        return patientList;
192
193    }
194
195    public static ObservableList<OtherPatient> getPatientObject(ResultSet resultset) {
196
197        ObservableList<OtherPatient> patientRecordList = FXCollections.observableArrayList();
198
199        try {
200
201            int count = 0;
202
203            while (resultset.next()) {
204
205                count++;
206
207                OtherPatient obj = new OtherPatient();
208
209                obj.setRegNo(resultset.getInt("reg_no"));
210                obj.setName(resultset.getString("name"));
211                obj.setSex(resultset.getString("sex"));
212                obj.setAge(resultset.getInt("age"));
213                obj.setPhoneNo(resultset.getInt("phone_no"));
214                obj.setDate(resultset.getString("date"));
215                obj.setTime(resultset.getString("time"));
216                obj.setComplaint(resultset.getString("complaint"));
217                obj.setRemarks(resultset.getString("remarks"));
218
219                patientRecordList.add(obj);
220
221            }
222
223            if (count==0) {
224
225                new Main().changeScene("OtherPatientRecords.fxml");
226
227                Alert alert = new Alert(Alert.AlertType.ERROR);
228                alert.setTitle("Error Message");
229                alert.setHeaderText(null);
230                alert.setContentText("No Data in MySQL Database!!");
231                alert.showAndWait();
232            }
233
234        }
235
236        catch (SQLException ae) {
237
238            System.out.println("Error!!! Connection Failed");
239            ae.printStackTrace();
240
241            Alert alert = new Alert(Alert.AlertType.ERROR);
242            alert.setTitle("Error Message");
243            alert.setHeaderText(null);
244            alert.setContentText("ERROR Retriving Data from MySQL Database!!");
245            alert.showAndWait();
246
247        }
248        return patientRecordList;
249
```

```java
250        }
251
252        //delete selected row from database
253        public void deleteRow(ActionEvent event) throws IOException, NullPointerException{
254
255            OtherPatient selectedRow = null;
256            int regNoValue;
257
258            try {
259
260                selectedRow = recordsTable.getSelectionModel().getSelectedItem();
261                regNoValue = selectedRow.getRegNo();
262
263                Connection connection =
                    DriverManager.getConnection("jdbc:mysql://localhost:3306/infirmary_management_system"
                    , "root", "root");
264
265                String sql = "DELETE FROM patient_records_others WHERE reg_no = ?;";
266
267                PreparedStatement statement = connection.prepareStatement(sql);
268
269                statement.setInt(1, regNoValue);
270                statement.execute();
271
272                new Main().changeScene("OtherPatientRecords.fxml");
273
274            }
275
276            catch (SQLException ae) {
277
278                System.out.println("Error!!! Connection Failed");
279                ae.printStackTrace();
280
281                Alert alert = new Alert(Alert.AlertType.ERROR);
282                alert.setTitle("Error Message");
283                alert.setHeaderText(null);
284                alert.setContentText("ERROR Deleting Selected Row!!");
285                alert.showAndWait();
286
287            }
288
289            catch (NullPointerException ae) {
290
291                System.out.println("Error!!! Retriving Reg_No");
292                ae.printStackTrace();
293
294                Alert alert = new Alert(Alert.AlertType.ERROR);
295                alert.setTitle("Error Message");
296                alert.setHeaderText(null);
297                alert.setContentText("ERROR!!! Please Select a  Row!!");
298                alert.showAndWait();
299
300            }
301
302        }
303
304        //MenuBar
305
306        //Menu 1 - File
307
308        //Menu Item 1.1
309        public void HomePageMenuItem(ActionEvent event) {
310            MenuBar obj = new MenuBar();
311            obj.HomePage();
```

```java
312          }
313
314      //Menu Item 1.2
315      public void LogOutMenuItem(ActionEvent event) {
316          MenuBar obj = new MenuBar();
317          obj.LogOut();
318      }
319
320      //Menu Item 1.3
321      public void ExitMenuItem(ActionEvent event) {
322          MenuBar obj = new MenuBar();
323          obj.Exit();
324      }
325
326      //Menu 2 - View
327
328      //Menu Item 2.1
329      public void NewPatientEntryMenuItem(ActionEvent event) {
330          MenuBar obj = new MenuBar();
331          obj.NewPatientEntry();
332      }
333
334      //Menu Item 2.2
335      public void ShowPatientRecordMenuItem(ActionEvent event) {
336          MenuBar obj = new MenuBar();
337          obj.ShowPatientRecord();
338      }
339
340      //Menu Item 2.3
341      public void MedicineRecordsMenuItem(ActionEvent event) {
342          MenuBar obj = new MenuBar();
343          obj.MedicineRecords();
344      }
345
346      //Menu 3  - Help
347
348      //Menu Item 3.1
349      public void CollegeWebsiteLinksMenuItem(ActionEvent event) {
350          MenuBar obj = new MenuBar();
351          obj.CollegeWebsiteLinks();
352      }
353
354      //Menu Item 3.2
355      public void AboutMenuItem(ActionEvent event) {
356          MenuBar obj = new MenuBar();
357          obj.About();
358      }
359
360  }
```

```java
package application;

import javafx.event.ActionEvent;
import javafx.fxml.FXML;
import javafx.scene.control.Alert;
import javafx.scene.control.Button;
import javafx.scene.control.ButtonType;
import javafx.scene.control.Hyperlink;

import java.awt.Desktop;
import java.io.IOException;
import java.net.URISyntaxException;
import java.net.URL;

public class CollegeWebsiteLinksController {

    @FXML
    private Button HomePage;

    @FXML
    private Button Logout;

    @FXML
    private Hyperlink cstWebsite;

    @FXML
    private Hyperlink rubIMS;

    @FXML
    private Hyperlink mail;

    @FXML
    private Hyperlink vle;

    @FXML
    private Hyperlink library;

    @FXML
    private Hyperlink mrbs;

    //back to login page
    public void userLogout(ActionEvent event) throws IOException {

        Alert alert = new Alert(Alert.AlertType.CONFIRMATION);
        alert.setTitle("Logout");
        alert.setHeaderText(null);
        alert.setContentText("Are you sure you want to Logout?");
        if (alert.showAndWait().get() == ButtonType.OK){
            Main m = new Main();
            m.changeScene("LoginPage.fxml");
        }

    }

    public void HomePage(ActionEvent event) throws IOException {

        Main m = new Main();
        m.changeScene("HomePage.fxml");

    }

    //calling openLinkInBrowser method and passing links as String
    public void cstWebsite(ActionEvent event) throws IOException {
        openLinkInBrowser("https://cst.edu.bt/index.php/en/");
```

```java
65          }
66
67      public void rubIMS(ActionEvent event) throws IOException {
68          openLinkInBrowser("https://ims.rub.edu.bt/");
69      }
70
71      public void mail(ActionEvent event) throws IOException {
72          openLinkInBrowser("http://mail.rub.edu.bt/");
73      }
74
75      public void vle(ActionEvent event) throws IOException {
76          openLinkInBrowser("https://vle.cst.edu.bt/");
77      }
78
79      public void library(ActionEvent event) throws IOException {
80          openLinkInBrowser("https://lib.cst.edu.bt/");
81      }
82
83      public void mrbs(ActionEvent event) throws IOException {
84          openLinkInBrowser("https://vle.cst.edu.bt/mrbs/web/day.php");
85      }
86
87      //mthod to open link in browser
88      public void openLinkInBrowser(String str) throws IOException{
89          try {
90              Desktop.getDesktop().browse(new URL(str).toURI());
91          }
92          catch (URISyntaxException ae) {
93
94              ae.printStackTrace();
95
96              Alert alert = new Alert(Alert.AlertType.ERROR);
97              alert.setTitle("Error Message");
98              alert.setHeaderText(null);
99              alert.setContentText("ERROR Opening URL");
100             alert.showAndWait();
101         }
102     }
103
104     //MenuBar
105
106     //Menu 1 - File
107
108     //Menu Item 1.1
109     public void HomePageMenuItem(ActionEvent event) {
110         MenuBar obj = new MenuBar();
111         obj.HomePage();
112     }
113
114     //Menu Item 1.2
115     public void LogOutMenuItem(ActionEvent event) {
116         MenuBar obj = new MenuBar();
117         obj.LogOut();
118     }
119
120     //Menu Item 1.3
121     public void ExitMenuItem(ActionEvent event) {
122         MenuBar obj = new MenuBar();
123         obj.Exit();
124     }
125
126     //Menu 2 - View
127
128     //Menu Item 2.1
```

```java
129    public void NewPatientEntryMenuItem(ActionEvent event) {
130        MenuBar obj = new MenuBar();
131        obj.NewPatientEntry();
132    }
133
134    //Menu Item 2.2
135    public void ShowPatientRecordMenuItem(ActionEvent event) {
136        MenuBar obj = new MenuBar();
137        obj.ShowPatientRecord();
138    }
139
140    //Menu Item 2.3
141    public void MedicineRecordsMenuItem(ActionEvent event) {
142        MenuBar obj = new MenuBar();
143        obj.MedicineRecords();
144    }
145
146    //Menu 3  - Help
147
148    //Menu Item 3.1
149    public void CollegeWebsiteLinksMenuItem(ActionEvent event) {
150        MenuBar obj = new MenuBar();
151        obj.CollegeWebsiteLinks();
152    }
153
154    //Menu Item 3.2
155    public void AboutMenuItem(ActionEvent event) {
156        MenuBar obj = new MenuBar();
157        obj.About();
158    }
159
160 }
161
```

```xml
1   <?xml version="1.0" encoding="UTF-8"?>
2
3   <?import javafx.scene.control.Button?>
4   <?import javafx.scene.control.Label?>
5   <?import javafx.scene.control.PasswordField?>
6   <?import javafx.scene.control.TextField?>
7   <?import javafx.scene.image.Image?>
8   <?import javafx.scene.image.ImageView?>
9   <?import javafx.scene.layout.AnchorPane?>
10  <?import javafx.scene.layout.BorderPane?>
11  <?import javafx.scene.text.Font?>
12
13  <BorderPane maxHeight="-Infinity" maxWidth="-Infinity"
14      minHeight="-Infinity" minWidth="-Infinity" prefHeight="600.0"
15      prefWidth="800.0" style="-fx-background-color: white;"
16      xmlns="http://javafx.com/javafx/15.0.1"
17      xmlns:fx="http://javafx.com/fxml/1"
18      fx:controller="application.LoginPageController">
19      <left>
20          <AnchorPane prefHeight="600.0" prefWidth="400.0"
21              BorderPane.alignment="CENTER">
22              <children>
23                  <ImageView fitHeight="200.0" fitWidth="200.0"
24                      layoutX="100.0" layoutY="122.0">
25                      <image>
26                          <Image url="@../../Images/CollegeLogo200px.png" />
27                      </image>
28                  </ImageView>
29                  <Label layoutX="37.0" layoutY="347.0"
30                      text="College of Science and Technology">
31                      <font>
32                          <Font name="Roboto Condensed Bold" size="24.0" />
33                      </font>
34                  </Label>
35                  <Label layoutX="92.0" layoutY="396.0"
36                      text="Infirmary Management System">
37                      <font>
38                          <Font name="Roboto Condensed Bold" size="18.0" />
39                      </font>
40                  </Label>
41              </children>
42          </AnchorPane>
43      </left>
44      <right>
45          <AnchorPane prefHeight="600.0" prefWidth="400.0"
46              BorderPane.alignment="CENTER">
47              <children>
48                  <ImageView fitHeight="571.0" fitWidth="415.0"
49                      layoutX="32.0" layoutY="14.0" pickOnBounds="true"
50                      preserveRatio="true">
51                      <image>
52                          <Image url="@../../Images/LoginRightPanel.png" />
53                      </image>
54                  </ImageView>
55                  <Label layoutX="139.0" layoutY="188.0" prefHeight="34.0"
56                      prefWidth="127.0" text="Admin Login">
57                      <font>
58                          <Font name="Roboto Condensed Bold" size="25.0" />
59                      </font>
60                  </Label>
61                  <Label layoutX="94.0" layoutY="289.0" text="Username">
62                      <font>
63                          <Font name="Roboto Condensed Bold" size="16.0" />
64                      </font>
```

```
65                        </Label>
66                        <TextField fx:id="usernameTextField" layoutX="90.0"
67                            layoutY="325.0" prefHeight="25.0" prefWidth="220.0"
68                            promptText="Enter Username">
69                            <font>
70                                <Font size="15.0" />
71                            </font>
72                        </TextField>
73                        <Label layoutX="95.0" layoutY="382.0" text="Password">
74                            <font>
75                                <Font name="Roboto Condensed Bold" size="16.0" />
76                            </font>
77                        </Label>
78                        <PasswordField fx:id="passwordField" layoutX="90.0"
79                            layoutY="418.0" prefHeight="25.0" prefWidth="220.0"
80                            promptText="Enter Password">
81                            <font>
82                                <Font size="15.0" />
83                            </font>
84                        </PasswordField>
85                        <Button fx:id="loginButton" layoutX="239.0" layoutY="489.0"
86                            mnemonicParsing="false" onAction="#userLogin" prefHeight="32.0"
87                            prefWidth="70.0" text="Login">
88                            <font>
89                                <Font size="15.0" />
90                            </font>
91                        </Button>
92                </children>
93            </AnchorPane>
94        </right>
95  </BorderPane>
96
```

```xml
1   <?xml version="1.0" encoding="UTF-8"?>
2
3   <!-- <!DOCTYPE xml> -->
4
5   <?import javafx.scene.control.Button?>
6   <?import javafx.scene.control.Label?>
7   <?import javafx.scene.control.Menu?>
8   <?import javafx.scene.control.MenuBar?>
9   <?import javafx.scene.control.MenuItem?>
10  <?import javafx.scene.control.Separator?>
11  <?import javafx.scene.effect.ImageInput?>
12  <?import javafx.scene.image.Image?>
13  <?import javafx.scene.image.ImageView?>
14  <?import javafx.scene.layout.AnchorPane?>
15  <?import javafx.scene.layout.BorderPane?>
16  <?import javafx.scene.text.Font?>
17
18  <BorderPane focusTraversable="true" maxHeight="-Infinity" maxWidth="-Infinity"
    minHeight="-Infinity" minWidth="-Infinity" prefHeight="600.0" prefWidth="800.0"
    style="-fx-background-color: white;" xmlns="http://javafx.com/javafx/15.0.1"
    xmlns:fx="http://javafx.com/fxml/1" fx:controller="application.HomePageController">
19      <top>
20          <AnchorPane prefHeight="183.0" prefWidth="800.0" BorderPane.alignment="CENTER">
21              <children>
22                  <MenuBar prefHeight="19.0" prefWidth="800.0" AnchorPane.leftAnchor="0.0"
                    AnchorPane.rightAnchor="0.0" AnchorPane.topAnchor="0.0">
23                      <menus>
24                          <Menu mnemonicParsing="false" text="File">
25                              <items>
26                                  <MenuItem mnemonicParsing="false" onAction="#HomePageMenuItem"
                                    text="Home Page" />
27                                  <MenuItem mnemonicParsing="false" onAction="#LogOutMenuItem"
                                    text="Log Out" />
28                                  <MenuItem mnemonicParsing="false" onAction="#ExitMenuItem"
                                    text="Exit" />
29                              </items>
30                          </Menu>
31                          <Menu mnemonicParsing="false" text="View">
32                              <items>
33                                  <MenuItem mnemonicParsing="false"
                                    onAction="#NewPatientEntryMenuItem" text="New Patient" />
34                                  <MenuItem mnemonicParsing="false"
                                    onAction="#ShowPatientRecordMenuItem" text="Show Patient
                                    Record" />
35                                  <MenuItem mnemonicParsing="false"
                                    onAction="#MedicineRecordsMenuItem" text="Medicine Records" />
36                              </items>
37                          </Menu>
38                          <Menu mnemonicParsing="false" text="Help">
39                              <items>
40                                  <MenuItem mnemonicParsing="false"
                                    onAction="#CollegeWebsiteLinksMenuItem" text="College Website
                                    Links" />
41                                  <MenuItem mnemonicParsing="false" onAction="#AboutMenuItem"
                                    text="About" />
42                              </items>
43                          </Menu>
44                      </menus>
45                  </MenuBar>
46                  <ImageView fitHeight="250.0" fitWidth="800.0" layoutY="26.0"
                    pickOnBounds="true" preserveRatio="true">
47                      <image>
48                          <Image url="@../../Images/HomePageHeader.png" />
49                      </image>
```

```xml
50                    </ImageView>
51                <Separator layoutX="158.0" layoutY="188.0" prefWidth="485.0" />
52            </children>
53        </AnchorPane>
54    </top>
55    <center>
56        <AnchorPane prefHeight="350.0" prefWidth="800.0" BorderPane.alignment="CENTER">
57            <children>
58                <Button fx:id="newPatientButton" layoutX="65.0" layoutY="37.0"
                        mnemonicParsing="false" onAction="#patientDetailsEntry" prefHeight="180.0"
                        prefWidth="180.0" text="New Patient">
59                    <effect>
60                        <ImageInput>
61                            <source>
62                                <Image
                                    url="file:/C:/Users/USER/eclipse-workspace/InfirmaryManagementSys
                                    tem/Images/NewPatient.png" />
63                            </source>
64                        </ImageInput>
65                    </effect>
66                </Button>
67                <Label layoutX="107.0" layoutY="245.0" text="New Patient">
68                    <font>
69                        <Font name="Roboto Condensed Bold" size="20.0" />
70                    </font>
71                </Label>
72                <Button fx:id="patientRecordsButton" layoutX="310.0" layoutY="37.0"
                        mnemonicParsing="false" onAction="#patientRecords" prefHeight="180.0"
                        prefWidth="180.0" text="Patient Records">
73                    <effect>
74                        <ImageInput>
75                            <source>
76                                <Image
                                    url="file:/C:/Users/USER/eclipse-workspace/InfirmaryManagementSys
                                    tem/Images/PatientDetails.png" />
77                            </source>
78                        </ImageInput>
79                    </effect>
80                </Button>
81                <Label layoutX="337.0" layoutY="245.0" text="Patient Records">
82                    <font>
83                        <Font name="Roboto Condensed Bold" size="20.0" />
84                    </font>
85                </Label>
86                <Button fx:id="medicineStockButton" layoutX="555.0" layoutY="37.0"
                        mnemonicParsing="false" onAction="#medicineStock" prefHeight="180.0"
                        prefWidth="180.0" text="Export Prescription">
87                    <effect>
88                        <ImageInput>
89                            <source>
90                                <Image
                                    url="file:/C:/Users/USER/eclipse-workspace/InfirmaryManagementSys
                                    tem/Images/Medicine.png" />
91                            </source>
92                        </ImageInput>
93                    </effect>
94                </Button>
95                <Label layoutX="585.0" layoutY="245.0" text="Medicine Stock">
96                    <font>
97                        <Font name="Roboto Condensed Bold" size="20.0" />
98                    </font>
99                </Label>
100               <Button fx:id="logoutButton" layoutX="684.0" layoutY="317.0"
                        mnemonicParsing="false" onAction="#userLogout" prefHeight="26.0"
```

```
                    prefWidth "74.0" text "Logout">
                        <font>
                            <Font name "Roboto Condensed Bold" size "18.0" />
                        </font>
                    </Button>
                </children>
            </AnchorPane>
        </center>
    </BorderPane>
```

```xml
1    <?xml version="1.0" encoding="UTF-8"?>
2
3    <!-- <!DOCTYPE xml> -->
4
5    <?import javafx.scene.control.Button?>
6    <?import javafx.scene.control.Label?>
7    <?import javafx.scene.control.Menu?>
8    <?import javafx.scene.control.MenuBar?>
9    <?import javafx.scene.control.MenuItem?>
10   <?import javafx.scene.control.Separator?>
11   <?import javafx.scene.effect.ImageInput?>
12   <?import javafx.scene.image.Image?>
13   <?import javafx.scene.image.ImageView?>
14   <?import javafx.scene.layout.AnchorPane?>
15   <?import javafx.scene.layout.BorderPane?>
16   <?import javafx.scene.text.Font?>
17
18   <BorderPane focusTraversable="true" maxHeight="-Infinity" maxWidth="-Infinity"
     minHeight="-Infinity" minWidth="-Infinity" prefHeight="600.0" prefWidth="800.0"
     style="-fx-background-color: white;" xmlns="http://javafx.com/javafx/15.0.1"
     xmlns:fx="http://javafx.com/fxml/1" fx:controller="application.SelectPatientEntryPageController">
19       <top>
20           <AnchorPane prefHeight="183.0" prefWidth="800.0" BorderPane.alignment="CENTER">
21               <children>
22                   <MenuBar prefHeight="19.0" prefWidth="800.0" AnchorPane.leftAnchor="0.0"
                     AnchorPane.rightAnchor="0.0" AnchorPane.topAnchor="0.0">
23                       <menus>
24                           <Menu mnemonicParsing="false" text="File">
25                               <items>
26                                   <MenuItem mnemonicParsing="false" onAction="#HomePageMenuItem"
                                     text="Home Page" />
27                                   <MenuItem mnemonicParsing="false" onAction="#LogOutMenuItem"
                                     text="Log Out" />
28                                   <MenuItem mnemonicParsing="false" onAction="#ExitMenuItem"
                                     text="Exit" />
29                               </items>
30                           </Menu>
31                           <Menu mnemonicParsing="false" text="View">
32                               <items>
33                                   <MenuItem mnemonicParsing="false"
                                     onAction="#NewPatientEntryMenuItem" text="New Patient" />
34                                   <MenuItem mnemonicParsing="false"
                                     onAction="#ShowPatientRecordMenuItem" text="Show Patient
                                     Record" />
35                                   <MenuItem mnemonicParsing="false"
                                     onAction="#MedicineRecordsMenuItem" text="Medicine Records" />
36                               </items>
37                           </Menu>
38                           <Menu mnemonicParsing="false" text="Help">
39                               <items>
40                                   <MenuItem mnemonicParsing="false"
                                     onAction="#CollegeWebsiteLinksMenuItem" text="College Website
                                     Links" />
41                                   <MenuItem mnemonicParsing="false" onAction="#AboutMenuItem"
                                     text="About" />
42                               </items>
43                           </Menu>
44                       </menus>
45                   </MenuBar>
46                   <ImageView fitHeight="250.0" fitWidth="800.0" layoutY="26.0"
                     pickOnBounds="true" preserveRatio="true">
47                       <image>
48                           <Image url="@../../Images/HomePageHeader.png" />
49                       </image>
```

```
50                    </ImageView>
51                <Separator layoutX="158.0" layoutY="188.0" prefHeight="8.0" prefWidth="485.0" />
52            </children>
53        </AnchorPane>
54    </top>
55    <center>
56        <AnchorPane prefHeight="350.0" prefWidth="800.0" BorderPane.alignment="CENTER">
57            <children>
58                <Button fx:id="StudentsButton" layoutX="65.0" layoutY="78.0"
                    mnemonicParsing="false" onAction="#studentDetailsEntry" prefHeight="180.0"
                    prefWidth="180.0" text="New Patient">
59                    <effect>
60                        <ImageInput>
61                            <source>
62                                <Image
                                url="file:/C:/Users/USER/eclipse-workspace/InfirmaryManagementSys
                                tem/Images/StudentsIcon.png" />
63                            </source>
64                        </ImageInput>
65                    </effect>
66                </Button>
67                <Label layoutX="119.0" layoutY="274.0" text="Students">
68                    <font>
69                        <Font name="Roboto Condensed Bold" size="20.0" />
70                    </font>
71                </Label>
72                <Button fx:id="StaffButton" layoutX="310.0" layoutY="78.0"
                    mnemonicParsing="false" onAction="#staffDetailsEntry" prefHeight="180.0"
                    prefWidth="180.0" text="Patient Records">
73                    <effect>
74                        <ImageInput>
75                            <source>
76                                <Image
                                url="file:/C:/Users/USER/eclipse-workspace/InfirmaryManagementSys
                                tem/Images/Staff%20Icon.png" />
77                            </source>
78                        </ImageInput>
79                    </effect>
80                </Button>
81                <Label layoutX="380.0" layoutY="272.0" text="Staff">
82                    <font>
83                        <Font name="Roboto Condensed Bold" size="20.0" />
84                    </font>
85                </Label>
86                <Button fx:id="OthersButton" layoutX="555.0" layoutY="78.0"
                    mnemonicParsing="false" onAction="#OthersDetailsEntry" prefHeight="180.0"
                    prefWidth="180.0" text="Export Prescription">
87                    <effect>
88                        <ImageInput>
89                            <source>
90                                <Image
                                url="file:/C:/Users/USER/eclipse-workspace/InfirmaryManagementSys
                                tem/Images/OthersIcon.png" />
91                            </source>
92                        </ImageInput>
93                    </effect>
94                </Button>
95                <Label layoutX="619.0" layoutY="272.0" text="Others">
96                    <font>
97                        <Font name="Roboto Condensed Bold" size="20.0" />
98                    </font>
99                </Label>
100               <Button fx:id="BackButton" layoutX="687.0" layoutY="334.0"
                    mnemonicParsing="false" onAction="#userBack" prefHeight="26.0" prefWidth="74.0"
```

```
                    text="Back">
                        <font>
                            <Font name="Roboto Condensed Bold" size="18.0" />
                        </font>
                    </Button>
                <Label layoutX="198.0" layoutY="-11.0" prefHeight="49.0" prefWidth="364.0"
                    text="PATIENT DETAILS ENTRY">
                        <font>
                            <Font name="Calibri Bold" size="34.0" />
                        </font>
                </Label>
                </children>
            </AnchorPane>
        </center>
    </BorderPane>
```

```xml
1   <?xml version="1.0" encoding="UTF-8"?>
2
3   <!-- <!DOCTYPE xml> -->
4
5   <?import javafx.scene.control.Button?>
6   <?import javafx.scene.control.Label?>
7   <?import javafx.scene.control.Menu?>
8   <?import javafx.scene.control.MenuBar?>
9   <?import javafx.scene.control.MenuItem?>
10  <?import javafx.scene.control.Separator?>
11  <?import javafx.scene.effect.ImageInput?>
12  <?import javafx.scene.image.Image?>
13  <?import javafx.scene.image.ImageView?>
14  <?import javafx.scene.layout.AnchorPane?>
15  <?import javafx.scene.layout.BorderPane?>
16  <?import javafx.scene.text.Font?>
17
18  <BorderPane focusTraversable="true" maxHeight="-Infinity" maxWidth="-Infinity"
    minHeight="-Infinity" minWidth="-Infinity" prefHeight="600.0" prefWidth="800.0"
    style="-fx-background-color: white;" xmlns="http://javafx.com/javafx/15.0.1"
    xmlns:fx="http://javafx.com/fxml/1"
    fx:controller="application.SelectPatientRecordsPageController">
19      <top>
20          <AnchorPane prefHeight="183.0" prefWidth="800.0" BorderPane.alignment="CENTER">
21              <children>
22                  <MenuBar prefHeight="19.0" prefWidth="800.0" AnchorPane.leftAnchor="0.0"
                    AnchorPane.rightAnchor="0.0" AnchorPane.topAnchor="0.0">
23                      <menus>
24                          <Menu mnemonicParsing="false" text="File">
25                              <items>
26                                  <MenuItem mnemonicParsing="false" onAction="#HomePageMenuItem"
                                    text="Home Page" />
27                                  <MenuItem mnemonicParsing="false" onAction="#LogOutMenuItem"
                                    text="Log Out" />
28                                  <MenuItem mnemonicParsing="false" onAction="#ExitMenuItem"
                                    text="Exit" />
29                              </items>
30                          </Menu>
31                          <Menu mnemonicParsing="false" text="View">
32                              <items>
33                                  <MenuItem mnemonicParsing="false"
                                    onAction="#NewPatientEntryMenuItem" text="New Patient" />
34                                  <MenuItem mnemonicParsing="false"
                                    onAction="#ShowPatientRecordMenuItem" text="Show Patient
                                    Record" />
35                                  <MenuItem mnemonicParsing="false"
                                    onAction="#MedicineRecordsMenuItem" text="Medicine Records" />
36                              </items>
37                          </Menu>
38                          <Menu mnemonicParsing="false" text="Help">
39                              <items>
40                                  <MenuItem mnemonicParsing="false"
                                    onAction="#CollegeWebsiteLinksMenuItem" text="College Website
                                    Links" />
41                                  <MenuItem mnemonicParsing="false" onAction="#AboutMenuItem"
                                    text="About" />
42                              </items>
43                          </Menu>
44                      </menus>
45                  </MenuBar>
46                  <ImageView fitHeight="250.0" fitWidth="800.0" layoutY="26.0"
                    pickOnBounds="true" preserveRatio="true">
47                      <image>
48                          <Image url="@../../Images/HomePageHeader.png" />
```

```xml
                              </image>
                          </ImageView>
                  <Separator layoutX="158.0" layoutY="188.0" prefWidth="485.0" />
                  </children>
              </AnchorPane>
          </top>
          <center>
              <AnchorPane prefHeight="350.0" prefWidth="800.0" BorderPane.alignment="CENTER">
                  <children>
                      <Button fx:id="StudentsButton" layoutX="65.0" layoutY="78.0"
                      mnemonicParsing="false" onAction="#studentRecords" prefHeight="180.0"
                      prefWidth="180.0" text="New Patient">
                          <effect>
                              <ImageInput>
                                  <source>
                                      <Image
                                      url="file:/C:/Users/USER/eclipse-workspace/InfirmaryManagementSys
                                      tem/Images/StudentsIcon.png" />
                                  </source>
                              </ImageInput>
                          </effect>
                      </Button>
                      <Label layoutX="119.0" layoutY="274.0" text="Students">
                          <font>
                              <Font name="Roboto Condensed Bold" size="20.0" />
                          </font>
                      </Label>
                      <Button fx:id="StaffButton" layoutX="310.0" layoutY="78.0"
                      mnemonicParsing="false" onAction="#staffRecords" prefHeight="180.0"
                      prefWidth="180.0" text="Patient Records">
                          <effect>
                              <ImageInput>
                                  <source>
                                      <Image
                                      url="file:/C:/Users/USER/eclipse-workspace/InfirmaryManagementSys
                                      tem/Images/Staff%20Icon.png" />
                                  </source>
                              </ImageInput>
                          </effect>
                      </Button>
                      <Label layoutX="380.0" layoutY="272.0" text="Staff">
                          <font>
                              <Font name="Roboto Condensed Bold" size="20.0" />
                          </font>
                      </Label>
                      <Button fx:id="OthersButton" layoutX="555.0" layoutY="78.0"
                      mnemonicParsing="false" onAction="#OthersRecords" prefHeight="180.0"
                      prefWidth="180.0" text="Export Prescription">
                          <effect>
                              <ImageInput>
                                  <source>
                                      <Image
                                      url="file:/C:/Users/USER/eclipse-workspace/InfirmaryManagementSys
                                      tem/Images/OthersIcon.png" />
                                  </source>
                              </ImageInput>
                          </effect>
                      </Button>
                      <Label layoutX="619.0" layoutY="272.0" text="Others">
                          <font>
                              <Font name="Roboto Condensed Bold" size="20.0" />
                          </font>
                      </Label>
                      <Button fx:id="BackButton" layoutX="687.0" layoutY="334.0"
```

```
                    mnemonicParsing "false" onAction "#userBack" prefHeight "26.0" prefWidth "74.0"
                    text "Back">
101                     <font>
102                         <Font name "Roboto Condensed Bold" size "18.0" />
103                     </font>
104                 </Button>
105             <Label layoutX "269.0" layoutY "-6.0" text "PATIENT RECORDS">
106                 <font>
107                     <Font name "Calibri Bold" size "34.0" />
108                 </font>
109             </Label>
110             </children>
111         </AnchorPane>
112     </center>
113 </BorderPane>
114
```

```xml
1    <?xml version="1.0" encoding="UTF-8"?>
2
3    <?import javafx.geometry.Insets?>
4    <?import javafx.scene.control.Button?>
5    <?import javafx.scene.control.DatePicker?>
6    <?import javafx.scene.control.Label?>
7    <?import javafx.scene.control.Menu?>
8    <?import javafx.scene.control.MenuBar?>
9    <?import javafx.scene.control.MenuItem?>
10   <?import javafx.scene.control.ScrollPane?>
11   <?import javafx.scene.control.TableColumn?>
12   <?import javafx.scene.control.TableView?>
13   <?import javafx.scene.control.TextField?>
14   <?import javafx.scene.layout.AnchorPane?>
15   <?import javafx.scene.layout.BorderPane?>
16   <?import javafx.scene.text.Font?>
17
18   <BorderPane maxHeight="-Infinity" maxWidth="-Infinity" minHeight="-Infinity"
     minWidth="-Infinity" prefHeight="600.0" prefWidth="800.0" style="-fx-background-color: white;"
     xmlns="http://javafx.com/javafx/15.0.1" xmlns:fx="http://javafx.com/fxml/1"
     fx:controller="application.MedicineRecordsController">
19       <top>
20           <AnchorPane prefHeight="82.0" prefWidth="800.0" BorderPane.alignment="CENTER">
21               <children>
22                   <MenuBar prefHeight="19.0" prefWidth="800.0" AnchorPane.leftAnchor="0.0"
                         AnchorPane.rightAnchor="0.0" AnchorPane.topAnchor="0.0">
23                       <menus>
24                           <Menu mnemonicParsing="false" text="File">
25                               <items>
26                                   <MenuItem mnemonicParsing="false" onAction="#HomePageMenuItem"
                                         text="Home Page" />
27                                   <MenuItem mnemonicParsing="false" onAction="#LogOutMenuItem"
                                         text="Log Out" />
28                                   <MenuItem mnemonicParsing="false" onAction="#ExitMenuItem"
                                         text="Exit" />
29                               </items>
30                           </Menu>
31                           <Menu mnemonicParsing="false" text="View">
32                               <items>
33                                   <MenuItem mnemonicParsing="false"
                                         onAction="#NewPatientEntryMenuItem" text="New Patient" />
34                                   <MenuItem mnemonicParsing="false"
                                         onAction="#ShowPatientRecordMenuItem" text="Show Patient
                                         Record" />
35                                   <MenuItem mnemonicParsing="false"
                                         onAction="#MedicineRecordsMenuItem" text="Medicine Records" />
36                               </items>
37                           </Menu>
38                           <Menu mnemonicParsing="false" text="Help">
39                               <items>
40                                   <MenuItem mnemonicParsing="false"
                                         onAction="#CollegeWebsiteLinksMenuItem" text="College Website
                                         Links" />
41                                   <MenuItem mnemonicParsing="false" onAction="#AboutMenuItem"
                                         text="About" />
42                               </items>
43                           </Menu>
44                       </menus>
45                   </MenuBar>
46                   <Label alignment="CENTER" layoutY="23.0" prefHeight="63.0" prefWidth="800.0"
                         style="-fx-background-color: #C5C6C7;" text="Medicine Records"
                         AnchorPane.leftAnchor="0.0" AnchorPane.rightAnchor="0.0"
                         AnchorPane.topAnchor="23.0">
47                       <font>
```

```xml
48                                <Font name="Roboto Condensed Bold" size="52.0" />
49                         </font>
50                         <padding>
51                            <Insets left="40.0" />
52                         </padding>
53                  </Label>
54              </children>
55         </AnchorPane>
56      </top>
57      <center>
58         <AnchorPane prefHeight="200.0" prefWidth="200.0" BorderPane.alignment="CENTER">
59            <children>
60               <ScrollPane prefHeight="950.0" prefWidth="800.0" AnchorPane.bottomAnchor="0.0"
                  AnchorPane.leftAnchor="0.0" AnchorPane.rightAnchor="0.0"
                  AnchorPane.topAnchor="0.0">
61                  <content>
62                     <AnchorPane minHeight="950.0" minWidth="800.0" prefHeight="450.0"
                        prefWidth="800.0">
63                        <children>
64                           <Label layoutX="75.0" layoutY="85.0" prefHeight="20.0"
                              prefWidth="97.0" text="Medicine Name">
65                              <font>
66                                 <Font name="Roboto Condensed Regular" size="15.0" />
67                              </font>
68                           </Label>
69                           <TextField fx:id="medicineNameTextField" layoutX="173.0"
                              layoutY="83.0" prefHeight="25.0" prefWidth="175.0" />
70                           <Label layoutX="75.0" layoutY="164.0" prefHeight="20.0"
                              prefWidth="97.0" text="Expiry Date">
71                              <font>
72                                 <Font name="Roboto Condensed Regular" size="15.0" />
73                              </font>
74                           </Label>
75                           <DatePicker fx:id="medicineExpiryDateSelector" layoutX="173.0"
                              layoutY="162.0" onAction="#showMedicineDate" />
76                           <Label layoutX="75.0" layoutY="123.0" prefHeight="20.0"
                              prefWidth="97.0" text="Quantity">
77                              <font>
78                                 <Font name="Roboto Condensed Regular" size="15.0" />
79                              </font>
80                           </Label>
81                           <TextField fx:id="medicineQuantityTextField" layoutX="173.0"
                              layoutY="121.0" prefHeight="25.0" prefWidth="175.0"
                              promptText="Eg. 50 Tablets" />
82                           <Button fx:id="medicineSaveButton" layoutX="292.0"
                              layoutY="209.0" mnemonicParsing="false"
                              onAction="#saveMedicine" prefHeight="31.0" prefWidth="55.0"
                              text="Save">
83                              <font>
84                                 <Font name="Roboto Condensed Regular" size="15.0" />
85                              </font>
86                           </Button>
87                           <Label layoutX="451.0" layoutY="85.0" prefHeight="20.0"
                              prefWidth="97.0" text="Injection Name">
88                              <font>
89                                 <Font name="Roboto Condensed Regular" size="15.0" />
90                              </font>
91                           </Label>
92                           <TextField fx:id="injectionNameTextField" layoutX="549.0"
                              layoutY="83.0" prefHeight="25.0" prefWidth="175.0" />
93                           <Label layoutX="451.0" layoutY="164.0" prefHeight="20.0"
                              prefWidth="97.0" text="Expiry Date">
94                              <font>
95                                 <Font name="Roboto Condensed Regular" size="15.0" />
```

```xml
96              </font>
97          </Label>
98          <DatePicker fx:id="injectionExpiryDateSelector" layoutX="549.0"
            layoutY="162.0" onAction="#showInjectionDate" />
99          <Label layoutX="451.0" layoutY="123.0" prefHeight="20.0"
            prefWidth="97.0" text="Quantity">
100             <font>
101                 <Font name="Roboto Condensed Regular" size="15.0" />
102             </font>
103         </Label>
104         <TextField fx:id="injectionQuantityTextField" layoutX="549.0"
            layoutY="121.0" prefHeight="25.0" prefWidth="175.0"
            promptText="Eg. 20ml" />
105         <Button fx:id="injectionSaveButton" layoutX="667.0"
            layoutY="209.0" mnemonicParsing="false"
            onAction="#saveInjection" prefHeight="31.0" prefWidth="55.0"
            text="Save">
106             <font>
107                 <Font name="Roboto Condensed Regular" size="15.0" />
108             </font>
109         </Button>
110         <TableView fx:id="medicineTable" layoutX="56.0" layoutY="324.0"
            prefHeight="500.0" prefWidth="290.0">
111             <columns>
112                 <TableColumn fx:id="col_medicineName" prefWidth="120.0"
                    text="Medicine Name" />
113                 <TableColumn fx:id="col_medicineQuantity"
                    prefWidth="60.0" text="Quantity" />
114                 <TableColumn fx:id="col_medicineExpiryDate"
                    prefWidth="110.0" text="Expiry Date" />
115             </columns>
116         </TableView>
117         <TableView fx:id="injectionTable" layoutX="439.0"
            layoutY="324.0" prefHeight="500.0" prefWidth="290.0">
118             <columns>
119                 <TableColumn fx:id="col_injectionName"
                    prefWidth="120.0" text="Injection Name" />
120                 <TableColumn fx:id="col_injectionQuantity"
                    prefWidth="60.0" text="Quantity" />
121                 <TableColumn fx:id="col_injectionExpiryDate"
                    prefWidth="110.0" text="Expiry Date" />
122             </columns>
123         </TableView>
124         <Button fx:id="backButton" layoutX="75.0" layoutY="14.0"
            mnemonicParsing="false" onAction="#backToHomePage"
            prefHeight="33.0" prefWidth="68.0" text="Back">
125             <font>
126                 <Font name="Roboto Condensed Regular" size="15.0" />
127             </font>
128         </Button>
129         <Button fx:id="medicineUpdateStockButton" layoutX="173.0"
            layoutY="209.0" mnemonicParsing="false"
            onAction="#updateMedicine" prefHeight="31.0" prefWidth="109.0"
            text="Update Stock">
130             <font>
131                 <Font name="Roboto Condensed Regular" size="15.0" />
132             </font>
133         </Button>
134         <Button fx:id="injectionUpdateStockButton" layoutX="549.0"
            layoutY="209.0" mnemonicParsing="false"
            onAction="#updateInjection" prefHeight="31.0" prefWidth="109.0"
            text="Update Stock">
135             <font>
136                 <Font name="Roboto Condensed Regular" size="15.0" />
```

```
137                              </font>
138                          </Button>
139                  <Button fx:id="deleteMedicine" layoutX="234.0" layoutY="287.0"
                     mnemonicParsing="false" onAction="#deleteMedicine" prefHeight="31.0"
                     prefWidth="115.0" text="Delete Medicine">
140                      <font>
141                          <Font name="Roboto Condensed Regular" size="15.0" />
142                      </font>
143                  </Button>
144                  <Button fx:id="deleteInjection" layoutX="613.0" layoutY="287.0"
                     mnemonicParsing="false" onAction="#deleteInjection" prefHeight="31.0"
                     prefWidth="115.0" text="Delete Injection">
145                      <font>
146                          <Font name="Roboto Condensed Regular" size="15.0" />
147                      </font>
148                  </Button>
149                      </children>
150                  </AnchorPane>
151              </content>
152          </ScrollPane>
153      </children>
154  </AnchorPane>
155  </center>
156  </BorderPane>
157
```

```xml
1    <?xml version="1.0" encoding="UTF-8"?>
2
3    <!-- <!DOCTYPE xml> -->
4
5    <?import javafx.geometry.Insets?>
6    <?import javafx.scene.control.Button?>
7    <?import javafx.scene.control.CheckBox?>
8    <?import javafx.scene.control.ComboBox?>
9    <?import javafx.scene.control.DatePicker?>
10   <?import javafx.scene.control.Label?>
11   <?import javafx.scene.control.Menu?>
12   <?import javafx.scene.control.MenuBar?>
13   <?import javafx.scene.control.MenuItem?>
14   <?import javafx.scene.control.RadioButton?>
15   <?import javafx.scene.control.ScrollPane?>
16   <?import javafx.scene.control.TextArea?>
17   <?import javafx.scene.control.TextField?>
18   <?import javafx.scene.control.ToggleGroup?>
19   <?import javafx.scene.layout.AnchorPane?>
20   <?import javafx.scene.layout.BorderPane?>
21   <?import javafx.scene.text.Font?>
22
23   <BorderPane maxHeight="-Infinity" maxWidth="-Infinity" minHeight="-Infinity"
     minWidth="-Infinity" prefHeight="600.0" prefWidth="800.0" style="-fx-background-color: white;"
     xmlns="http://javafx.com/javafx/15.0.1" xmlns:fx="http://javafx.com/fxml/1"
     fx:controller="application.PatientDetailsEntryController">
24       <top>
25           <AnchorPane prefHeight="84.0" prefWidth="800.0" BorderPane.alignment="CENTER">
26               <children>
27                   <MenuBar prefHeight="19.0" prefWidth="800.0" AnchorPane.leftAnchor="0.0"
                     AnchorPane.rightAnchor="0.0" AnchorPane.topAnchor="0.0">
28                       <menus>
29                           <Menu mnemonicParsing="false" text="File">
30                               <items>
31                                   <MenuItem mnemonicParsing="false" onAction="#HomePageMenuItem"
                                     text="Home Page" />
32                                   <MenuItem mnemonicParsing="false" onAction="#LogOutMenuItem"
                                     text="Log Out" />
33                                   <MenuItem mnemonicParsing="false" onAction="#ExitMenuItem"
                                     text="Exit" />
34                               </items>
35                           </Menu>
36                           <Menu mnemonicParsing="false" text="View">
37                               <items>
38                                   <MenuItem mnemonicParsing="false"
                                     onAction="#NewPatientEntryMenuItem" text="New Patient" />
39                                   <MenuItem mnemonicParsing="false"
                                     onAction="#ShowPatientRecordMenuItem" text="Show Patient
                                     Record" />
40                                   <MenuItem mnemonicParsing="false"
                                     onAction="#MedicineRecordsMenuItem" text="Medicine Records" />
41                               </items>
42                           </Menu>
43                           <Menu mnemonicParsing="false" text="Help">
44                               <items>
45                                   <MenuItem mnemonicParsing="false"
                                     onAction="#CollegeWebsiteLinksMenuItem" text="College Website
                                     Links" />
46                                   <MenuItem mnemonicParsing="false" onAction="#AboutMenuItem"
                                     text="About" />
47                               </items>
48                           </Menu>
49                       </menus>
50                   </MenuBar>
```

```xml
51                         <Label alignment="CENTER" layoutY="26.0" prefHeight="58.0" prefWidth="800.0"
                              style="-fx-background-color: #C5C6C7;" text="New Patient Entry - Student"
                              textAlignment="CENTER" AnchorPane.leftAnchor="0.0" AnchorPane.rightAnchor="0.0"
                              AnchorPane.topAnchor="26.0">
52                            <font>
53                                <Font name="Roboto Condensed Bold" size="52.0" />
54                            </font>
55                            <padding>
56                                <Insets left="40.0" />
57                            </padding>
58                         </Label>
59                      </children>
60                   </AnchorPane>
61             </top>
62             <center>
63                   <AnchorPane prefHeight="200.0" prefWidth="200.0" BorderPane.alignment="CENTER">
64                      <children>
65                         <ScrollPane prefHeight="717.0" prefWidth="800.0" AnchorPane.bottomAnchor="-1.0"
                              AnchorPane.leftAnchor="0.0" AnchorPane.rightAnchor="0.0"
                              AnchorPane.topAnchor="0.0">
66                            <content>
67                               <AnchorPane prefHeight="715.0" prefWidth="799.0">
68                                  <children>
69                                     <TextArea fx:id="complaintTextArea" layoutX="31.0"
                                         layoutY="266.0" prefHeight="120.0" prefWidth="450.0" />
70                                     <Label layoutX="32.0" layoutY="25.0" prefHeight="16.0"
                                         prefWidth="60.0" text="Name">
71                                        <font>
72                                           <Font name="Cambria" size="15.0" />
73                                        </font>
74                                     </Label>
75                                     <TextField fx:id="nameTextField" layoutX="32.0" layoutY="50.0"
                                         prefHeight="26.0" prefWidth="226.0" />
76                                     <Label layoutX="306.0" layoutY="24.0" prefHeight="20.0"
                                         prefWidth="118.0" text="Student Number ">
77                                        <font>
78                                           <Font name="Cambria" size="15.0" />
79                                        </font>
80                                     </Label>
81                                     <TextField fx:id="studentNoTextField" layoutX="306.0"
                                         layoutY="49.0" prefHeight="26.0" prefWidth="172.0"
                                         promptText="Eg. 02200174" />
82                                     <Label layoutX="532.0" layoutY="26.0" prefHeight="16.0"
                                         prefWidth="60.0" text="Reg No.">
83                                        <font>
84                                           <Font name="Cambria" size="15.0" />
85                                        </font>
86                                     </Label>
87                                     <TextField fx:id="regNoTextField" layoutX="532.0"
                                         layoutY="51.0" prefHeight="26.0" prefWidth="176.0" />
88                                     <Label layoutX="533.0" layoutY="95.0" prefHeight="16.0"
                                         prefWidth="60.0" text="Year">
89                                        <font>
90                                           <Font name="Cambria" size="15.0" />
91                                        </font>
92                                     </Label>
93                                     <ComboBox fx:id="yearComboBox" layoutX="533.0" layoutY="120.0"
                                         onAction="#comboChanged" prefHeight="26.0" prefWidth="63.0"
                                         promptText="- -" />
94                                     <!-- <items> -->
95                                     <!-- <FXCollections fx:factory="observableArrayList"> -->
96                                     <!-- <String fx:value="1" /> -->
97                                     <!-- <String fx:value="2" /> -->
98                                     <!-- <String fx:value="3" /> -->
```

```
 99              <!-- <String fx:value="4" /> -->
100              <!-- <String fx:value="5" /> -->
101              <!-- </FXCollections> -->
102              <!-- </items> -->
103              <!-- </ComboBox> -->
104              <Label layoutX "610.0" layoutY "95.0" prefHeight "16.0"
                 prefWidth "60.0" text "Course">
105                  <font>
106                      <Font name "Cambria" size "15.0" />
107                  </font>
108              </Label>
109              <ComboBox fx:id "courseComboBox" layoutX "610.0"
                 layoutY "120.0" onAction "#comboChanged" prefHeight "26.0"
                 prefWidth "123.0" promptText "- -" />
110              <!-- <items> -->
111              <!-- <FXCollections fx:factory="observableArrayList"> -->
112              <!-- <String fx:value="ME in RE" /> -->
113              <!-- <String fx:value="ME in CM" /> -->
114              <!-- <String fx:value="BE CE" /> -->
115              <!-- <String fx:value="BE EE" /> -->
116              <!-- <String fx:value="B Arch." /> -->
117              <!-- <String fx:value="BE ECE" /> -->
118              <!-- <String fx:value="BE IT" /> -->
119              <!-- <String fx:value="BE ICE" /> -->
120              <!-- <String fx:value="BE EG" /> -->
121              <!-- </FXCollections> -->
122              <!-- </items> -->
123              <!-- </ComboBox> -->
124              <Label layoutX "302.0" layoutY "93.0" prefHeight "20.0"
                 prefWidth "82.0" text "Department">
125                  <font>
126                      <Font name "Cambria" size "15.0" />
127                  </font>
128              </Label>
129              <ComboBox fx:id "departmentComboBox" layoutX "302.0"
                 layoutY "118.0" onAction "#deptComboBoxSelected"
                 prefHeight "26.0" prefWidth "176.0" promptText "- -" />
130              <!-- <items> -->
131              <!-- <FXCollections fx:factory="observableArrayList"> -->
132              <!-- <String fx:value="Civil Department" /> -->
133              <!-- <String fx:value="Architecture Department" /> -->
134              <!-- <String fx:value="Electrical Department" /> -->
135              <!-- <String fx:value="IT Department" /> -->
136              <!-- <String fx:value="ECE Department" /> -->
137              <!-- <String fx:value="Electrical Department" /> -->
138              <!-- </FXCollections> -->
139              <!-- </items> -->
140              <!-- </ComboBox> -->
141              <Label layoutX "31.0" layoutY "95.0" prefHeight "16.0"
                 prefWidth "60.0" text "Sex">
142                  <font>
143                      <Font name "Cambria" size "15.0" />
144                  </font>
145              </Label>
146              <RadioButton fx:id "maleRadioButton" layoutX "31.0"
                 layoutY "124.0" mnemonicParsing "false"
                 onAction "#sexRadioSelect" text "Male">
147                  <toggleGroup>
148                      <ToggleGroup fx:id "gender" />
149                  </toggleGroup>
150              </RadioButton>
151              <RadioButton fx:id "femaleRadioButton" layoutX "90.0"
                 layoutY "124.0" mnemonicParsing "false"
                 onAction "#sexRadioSelect" text "Female" toggleGroup "$gender" />
```

```xml
152        <Label layoutX="181.0" layoutY="95.0" prefHeight="16.0"
           prefWidth="60.0" text="Age">
153            <font>
154                <Font name="Cambria" size="15.0" />
155            </font>
156        </Label>
157        <TextField fx:id="ageTextField" layoutX="181.0" layoutY="120.0"
           prefHeight="26.0" prefWidth="75.0" />
158        <Label layoutX="303.0" layoutY="169.0" prefHeight="16.0"
           prefWidth="60.0" text="Date">
159            <font>
160                <Font name="Cambria" size="15.0" />
161            </font>
162        </Label>
163        <DatePicker fx:id="DateSelector" layoutX="303.0"
           layoutY="194.0" prefHeight="26.0" prefWidth="175.0" />
164        <Label layoutX="535.0" layoutY="169.0" prefHeight="16.0"
           prefWidth="60.0" text="Time">
165            <font>
166                <Font name="Cambria" size="15.0" />
167            </font>
168        </Label>
169        <TextField fx:id="timeTextField" layoutX="535.0"
           layoutY="194.0" prefHeight="26.0" prefWidth="81.0"
           promptText="Eg 12:00" />
170        <RadioButton fx:id="amRadioButton" layoutX="622.0"
           layoutY="198.0" mnemonicParsing="false"
           onAction="#timeRadioSelect" text="AM">
171            <toggleGroup>
172                <ToggleGroup fx:id="timeSelect" />
173            </toggleGroup>
174        </RadioButton>
175        <RadioButton fx:id="pmRadioButton" layoutX="670.0"
           layoutY="198.0" mnemonicParsing="false"
           onAction="#timeRadioSelect" text="PM" toggleGroup="$timeSelect"
           />
176        <Label layoutX="31.0" layoutY="239.0" prefHeight="20.0"
           prefWidth="159.0" text="Complaint / Treatment ">
177            <font>
178                <Font name="Cambria" size="15.0" />
179            </font>
180        </Label>
181        <Label layoutX="518.0" layoutY="239.0" prefHeight="20.0"
           prefWidth="159.0" text="Remarks">
182            <font>
183                <Font name="Cambria" size="15.0" />
184            </font>
185        </Label>
186        <TextArea fx:id="remarksTextArea" layoutX="519.0"
           layoutY="266.0" prefHeight="120.0" prefWidth="232.0" />
187        <Label layoutX="31.0" layoutY="403.0" prefHeight="20.0"
           prefWidth="97.0" text="Leave Options ">
188            <font>
189                <Font name="Cambria" size="15.0" />
190            </font>
191        </Label>
192        <ComboBox fx:id="leaveOptionsComboBox" layoutX="31.0"
           layoutY="429.0" onAction="#comboChanged" prefHeight="26.0"
           prefWidth="190.0" promptText="- - " />
193        <Label layoutX="251.0" layoutY="403.0" prefHeight="20.0"
           prefWidth="82.0" text="No. of Days ">
194            <font>
195                <Font name="Cambria" size="15.0" />
196            </font>
```

```xml
                                        </Label>
        <TextField fx:id="leaveDaysTextField" layoutX="251.0"
        layoutY="429.0" prefHeight="26.0" prefWidth="81.0" />
        <Label layoutX="32.0" layoutY="169.0" prefHeight="20.0"
        prefWidth="73.0" text="Phone No.">
            <font>
                <Font name="Cambria" size="15.0" />
            </font>
        </Label>
        <TextField fx:id="phoneNoTextField" layoutX="32.0"
        layoutY="194.0" prefHeight="26.0" prefWidth="176.0"
        promptText="Eg 17358766" />
        <Button fx:id="saveButton" layoutX="667.0" layoutY="644.0"
        mnemonicParsing="false" onAction="#saveDetails"
        prefHeight="14.0" prefWidth="66.0" text="Save">
            <font>
                <Font name="Cambria" size="15.0" />
            </font>
        </Button>
        <Button fx:id="backButton" layoutX="576.0" layoutY="645.0"
        mnemonicParsing="false" onAction="#homePage" prefHeight="14.0"
        prefWidth="66.0" text="Back">
            <font>
                <Font name="Cambria" size="15.0" />
            </font>
        </Button>
        <Label layoutX="31.0" layoutY="492.0" prefHeight="20.0"
        prefWidth="75.0" text="Medicine ">
            <font>
                <Font name="Cambria" size="15.0" />
            </font>
        </Label>
    <ComboBox fx:id="medicineComboBox" layoutX="115.0" layoutY="489.0"
    prefHeight="26.0" prefWidth="186.0" promptText="- - " />
        <Label layoutX="31.0" layoutY="532.0" prefHeight="20.0"
        prefWidth="80.0" text="Quantity">
            <font>
                <Font name="Cambria" size="15.0" />
            </font>
        </Label>
        <TextField fx:id="medicineQuantityTextField" layoutX="117.0"
        layoutY="529.0" prefHeight="26.0" prefWidth="185.0" text="0" />
        <Label layoutX="417.0" layoutY="491.0" prefHeight="20.0"
        prefWidth="77.0" text="Injection ">
            <font>
                <Font name="Cambria" size="15.0" />
            </font>
        </Label>
    <ComboBox fx:id="injectionComboBox" layoutX="536.0" layoutY="489.0"
    prefHeight="26.0" prefWidth="186.0" promptText="- - " />
        <Label layoutX="416.0" layoutY="531.0" prefHeight="20.0"
        prefWidth="80.0" text="Quantity">
            <font>
                <Font name="Cambria" size="15.0" />
            </font>
        </Label>
        <TextField fx:id="injectionQuantityTextField" layoutX="538.0"
        layoutY="528.0" prefHeight="26.0" prefWidth="184.0" text="0" />
        <CheckBox fx:id="medicineChecBox" layoutX="115.0"
        layoutY="576.0" mnemonicParsing="false"
        onAction="#medicinePrescribed" prefHeight="26.0"
        prefWidth="202.0" text="Prescribe Medicine">
            <font>
                <Font name="Cambria" size="15.0" />
```

```xml
242                              </font>
243                          </CheckBox>
244                          <CheckBox fx:id="injectionChecBox" layoutX="538.0"
                             layoutY="576.0" mnemonicParsing="false"
                             onAction="#prescribeInjection" prefHeight="26.0"
                             prefWidth="202.0" text="Prescribe Injection">
245                              <font>
246                                  <Font name="Cambria" size="15.0" />
247                              </font>
248                          </CheckBox>
249                  <Label fx:id="nameErrorMessage" layoutX="144.0" layoutY="73.0"
                     prefHeight="20.0" prefWidth="115.0" text="*Please Enter your name"
                     textFill="RED" visible="false">
250              <font>
251                  <Font name="Arial" size="10.0" />
252              </font>
253          </Label>
254          <Label fx:id="stdNoErrorMessage" layoutX="331.0" layoutY="72.0"
            prefHeight="20.0" prefWidth="150.0" text="*Please Enter a Valid Student
            No" textFill="RED" visible="false">
255              <font>
256                  <Font name="Arial" size="10.0" />
257              </font>
258          </Label>
259          <Label fx:id="ageErrorMessage" layoutX="172.0" layoutY="146.0"
            prefHeight="20.0" prefWidth="87.0" text="*Please Enter Age"
            textFill="RED" visible="false">
260              <font>
261                  <Font name="Arial" size="10.0" />
262              </font>
263          </Label>
264          <Label fx:id="genderErrorMessage" layoutX="35.0" layoutY="146.0"
            prefHeight="20.0" prefWidth="87.0" text="*Please Select One"
            textFill="RED" visible="false">
265              <font>
266                  <Font name="Arial" size="10.0" />
267              </font>
268          </Label>
269          <Label fx:id="deptErrorMessage" layoutX="391.0" layoutY="146.0"
            prefHeight="20.0" prefWidth="87.0" text="*Please Select One"
            textFill="RED" visible="false">
270              <font>
271                  <Font name="Arial" size="10.0" />
272              </font>
273          </Label>
274          <Label fx:id="yearErrorMessage" layoutX="532.0" layoutY="146.0"
            prefHeight="20.0" prefWidth="87.0" text="*Please Select One"
            textFill="RED" visible="false">
275              <font>
276                  <Font name="Arial" size="10.0" />
277              </font>
278          </Label>
279          <Label fx:id="courseErrorMessage" layoutX="646.0" layoutY="146.0"
            prefHeight="20.0" prefWidth="87.0" text="*Please Select One"
            textFill="RED" visible="false">
280              <font>
281                  <Font name="Arial" size="10.0" />
282              </font>
283          </Label>
284          <Label fx:id="phoneNoErrorMessage" layoutX="63.0" layoutY="220.0"
            prefHeight="20.0" prefWidth="150.0" text="*Please Enter a Valid Phone
            No" textFill="RED" visible="false">
285              <font>
286                  <Font name="Arial" size="10.0" />
```

```xml
287                                    </font>
288                                </Label>
289                                <Label fx:id="complaintErrorMessage" layoutX="409.0" layoutY="386.0"
                                   prefHeight="20.0" prefWidth="75.0" text="*Please Fill Up"
                                   textFill="RED" visible="false">
290                                    <font>
291                                        <Font name="Arial" size="10.0" />
292                                    </font>
293                                </Label>
294                                <Label fx:id="remarksErrorMessage" layoutX="679.0" layoutY="386.0"
                                   prefHeight="20.0" prefWidth="73.0" text="*Please Filll Up"
                                   textFill="RED" visible="false">
295                                    <font>
296                                        <Font name="Arial" size="10.0" />
297                                    </font>
298                                </Label>
299                                <Label fx:id="leaveDaysErrorMessage" layoutX="261.0" layoutY="455.0"
                                   prefHeight="20.0" prefWidth="75.0" text="*Please Fill Up"
                                   textFill="RED" visible="false">
300                                    <font>
301                                        <Font name="Arial" size="10.0" />
302                                    </font>
303                                </Label>
304                                <Label fx:id="leaveOptionsErrorMessage" layoutX="134.0" layoutY="455.0"
                                   prefHeight="20.0" prefWidth="87.0" text="*Please Select One"
                                   textFill="RED" visible="false">
305                                    <font>
306                                        <Font name="Arial" size="10.0" />
307                                    </font>
308                                </Label>
309                                    </children>
310                                </AnchorPane>
311                            </content>
312                        </ScrollPane>
313                    </children>
314                </AnchorPane>
315            </center>
316    </BorderPane>
317
```

```xml
1    <?xml version="1.0" encoding="UTF-8"?>
2
3    <!-- <!DOCTYPE xml> -->
4
5    <?import javafx.geometry.Insets?>
6    <?import javafx.scene.control.Button?>
7    <?import javafx.scene.control.CheckBox?>
8    <?import javafx.scene.control.ComboBox?>
9    <?import javafx.scene.control.DatePicker?>
10   <?import javafx.scene.control.Label?>
11   <?import javafx.scene.control.Menu?>
12   <?import javafx.scene.control.MenuBar?>
13   <?import javafx.scene.control.MenuItem?>
14   <?import javafx.scene.control.RadioButton?>
15   <?import javafx.scene.control.ScrollPane?>
16   <?import javafx.scene.control.TextArea?>
17   <?import javafx.scene.control.TextField?>
18   <?import javafx.scene.control.ToggleGroup?>
19   <?import javafx.scene.layout.AnchorPane?>
20   <?import javafx.scene.layout.BorderPane?>
21   <?import javafx.scene.text.Font?>
22
23   <BorderPane maxHeight="-Infinity" maxWidth="-Infinity" minHeight="-Infinity"
     minWidth="-Infinity" prefHeight="600.0" prefWidth="800.0" style="-fx-background-color: white;"
     xmlns="http://javafx.com/javafx/15.0.1" xmlns:fx="http://javafx.com/fxml/1"
     fx:controller="application.StaffPatientDetailsEntryController">
24       <top>
25           <AnchorPane prefHeight="84.0" prefWidth="800.0" BorderPane.alignment="CENTER">
26               <children>
27                   <MenuBar prefHeight="19.0" prefWidth="800.0" AnchorPane.leftAnchor="0.0"
                     AnchorPane.rightAnchor="0.0" AnchorPane.topAnchor="0.0">
28                       <menus>
29                           <Menu mnemonicParsing="false" text="File">
30                               <items>
31                                   <MenuItem mnemonicParsing="false" onAction="#HomePageMenuItem"
                                     text="Home Page" />
32                                   <MenuItem mnemonicParsing="false" onAction="#LogOutMenuItem"
                                     text="Log Out" />
33                                   <MenuItem mnemonicParsing="false" onAction="#ExitMenuItem"
                                     text="Exit" />
34                               </items>
35                           </Menu>
36                           <Menu mnemonicParsing="false" text="View">
37                               <items>
38                                   <MenuItem mnemonicParsing="false"
                                     onAction="#NewPatientEntryMenuItem" text="New Patient" />
39                                   <MenuItem mnemonicParsing="false"
                                     onAction="#ShowPatientRecordMenuItem" text="Show Patient
                                     Record" />
40                                   <MenuItem mnemonicParsing="false"
                                     onAction="#MedicineRecordsMenuItem" text="Medicine Records" />
41                               </items>
42                           </Menu>
43                           <Menu mnemonicParsing="false" text="Help">
44                               <items>
45                                   <MenuItem mnemonicParsing="false"
                                     onAction="#CollegeWebsiteLinksMenuItem" text="College Website
                                     Links" />
46                                   <MenuItem mnemonicParsing="false" onAction="#AboutMenuItem"
                                     text="About" />
47                               </items>
48                           </Menu>
49                       </menus>
50                   </MenuBar>
```

```xml
51                     <Label alignment="CENTER" layoutY="26.0" prefHeight="58.0" prefWidth="800.0"
                       style="-fx-background-color: #C5C6C7;" text="New Patient Entry - Staff"
                       textAlignment="CENTER" AnchorPane.leftAnchor="0.0" AnchorPane.rightAnchor="0.0"
                       AnchorPane.topAnchor="26.0">
52                         <font>
53                             <Font name="Roboto Condensed Bold" size="52.0" />
54                         </font>
55                         <padding>
56                             <Insets left="40.0" />
57                         </padding>
58                     </Label>
59                 </children>
60             </AnchorPane>
61         </top>
62         <center>
63             <AnchorPane prefHeight="200.0" prefWidth="200.0" BorderPane.alignment="CENTER">
64                 <children>
65                     <ScrollPane prefHeight="717.0" prefWidth="800.0" AnchorPane.bottomAnchor="-1.0"
                       AnchorPane.leftAnchor="0.0" AnchorPane.rightAnchor="0.0"
                       AnchorPane.topAnchor="0.0">
66                         <content>
67                             <AnchorPane prefHeight="641.0" prefWidth="799.0">
68                                 <children>
69                                     <TextArea fx:id="complaintTextArea" layoutX="31.0"
                                       layoutY="266.0" prefHeight="120.0" prefWidth="450.0" />
70                                     <Label layoutX="32.0" layoutY="25.0" prefHeight="16.0"
                                       prefWidth="60.0" text="Name">
71                                         <font>
72                                             <Font name="Cambria" size="15.0" />
73                                         </font>
74                                     </Label>
75                                     <TextField fx:id="nameTextField" layoutX="32.0" layoutY="50.0"
                                       prefHeight="26.0" prefWidth="215.0" />
76                                     <Label layoutX="532.0" layoutY="26.0" prefHeight="16.0"
                                       prefWidth="60.0" text="Reg No.">
77                                         <font>
78                                             <Font name="Cambria" size="15.0" />
79                                         </font>
80                                     </Label>
81                                     <TextField fx:id="regNoTextField" layoutX="532.0"
                                       layoutY="51.0" prefHeight="26.0" prefWidth="176.0" />
82                                     <!-- <items> -->
83                                     <!-- <FXCollections fx:factory="observableArrayList"> -->
84                                     <!-- <String fx:value="ME in RE" /> -->
85                                     <!-- <String fx:value="ME in CM" /> -->
86                                     <!-- <String fx:value="BE CE" /> -->
87                                     <!-- <String fx:value="BE EE" /> -->
88                                     <!-- <String fx:value="B Arch." /> -->
89                                     <!-- <String fx:value="BE ECE" /> -->
90                                     <!-- <String fx:value="BE IT" /> -->
91                                     <!-- <String fx:value="BE ICE" /> -->
92                                     <!-- <String fx:value="BE EG" /> -->
93                                     <!-- </FXCollections> -->
94                                     <!-- </items> -->
95                                     <!-- </ComboBox> -->
96                                     <Label layoutX="303.0" layoutY="25.0" prefHeight="20.0"
                                       prefWidth="82.0" text="Department">
97                                         <font>
98                                             <Font name="Cambria" size="15.0" />
99                                         </font>
100                                    </Label>
101                                    <ComboBox fx:id="departmentComboBox" layoutX="303.0"
                                       layoutY="50.0" onAction="#comboChanged" prefHeight="26.0"
                                       prefWidth="176.0" promptText="- -" />
```

```xml
102          <!-- <items> -->
103          <!-- <FXCollections fx:factory="observableArrayList"> -->
104          <!-- <String fx:value="Civil Department" /> -->
105          <!-- <String fx:value="Architecture Department" /> -->
106          <!-- <String fx:value="Electrical Department" /> -->
107          <!-- <String fx:value="IT Department" /> -->
108          <!-- <String fx:value="ECE Department" /> -->
109          <!-- <String fx:value="Electrical Department" /> -->
110          <!-- </FXCollections> -->
111          <!-- </items> -->
112          <!-- </ComboBox> -->
113          <Label layoutX="31.0" layoutY="95.0" prefHeight="16.0"
             prefWidth="60.0" text="Sex">
114              <font>
115                  <Font name="Cambria" size="15.0" />
116              </font>
117          </Label>
118          <RadioButton fx:id="maleRadioButton" layoutX="31.0"
             layoutY="124.0" mnemonicParsing="false"
             onAction="#sexRadioSelect" text="Male">
119              <toggleGroup>
120                  <ToggleGroup fx:id="gender" />
121              </toggleGroup>
122          </RadioButton>
123          <RadioButton fx:id="femaleRadioButton" layoutX="90.0"
             layoutY="124.0" mnemonicParsing="false"
             onAction="#sexRadioSelect" text="Female" toggleGroup="$gender" />
124          <Label layoutX="170.0" layoutY="93.0" prefHeight="16.0"
             prefWidth="60.0" text="Age">
125              <font>
126                  <Font name="Cambria" size="15.0" />
127              </font>
128          </Label>
129          <TextField fx:id="ageTextField" layoutX="170.0" layoutY="118.0"
             prefHeight="26.0" prefWidth="75.0" />
130          <Label layoutX="534.0" layoutY="93.0" prefHeight="16.0"
             prefWidth="60.0" text="Date">
131              <font>
132                  <Font name="Cambria" size="15.0" />
133              </font>
134          </Label>
135          <DatePicker fx:id="DateSelector" layoutX="534.0"
             layoutY="118.0" prefHeight="26.0" prefWidth="175.0" />
136          <Label layoutX="28.0" layoutY="166.0" prefHeight="16.0"
             prefWidth="60.0" text="Time">
137              <font>
138                  <Font name="Cambria" size="15.0" />
139              </font>
140          </Label>
141          <TextField fx:id="timeTextField" layoutX="28.0" layoutY="191.0"
             prefHeight="26.0" prefWidth="81.0" promptText="Eg 12:00" />
142          <RadioButton fx:id="amRadioButton" layoutX="124.0"
             layoutY="195.0" mnemonicParsing="false"
             onAction="#timeRadioSelect" text="AM">
143              <toggleGroup>
144                  <ToggleGroup fx:id="timeSelect" />
145              </toggleGroup>
146          </RadioButton>
147          <RadioButton fx:id="pmRadioButton" layoutX="172.0"
             layoutY="195.0" mnemonicParsing="false"
             onAction="#timeRadioSelect" text="PM" toggleGroup="$timeSelect"
             />
148          <Label layoutX="31.0" layoutY="239.0" prefHeight="20.0"
             prefWidth="159.0" text="Complaint / Treatment ">
```

```xml
                                     <font>
                                          <Font name="Cambria" size="15.0" />
                                     </font>
                                </Label>
                                <Label layoutX="518.0" layoutY="239.0" prefHeight="20.0"
                                prefWidth="159.0" text="Remarks">
                                     <font>
                                          <Font name="Cambria" size="15.0" />
                                     </font>
                                </Label>
                                <TextArea fx:id="remarksTextArea" layoutX="519.0"
                                layoutY="266.0" prefHeight="120.0" prefWidth="232.0" />
                                <Label layoutX="305.0" layoutY="165.0" prefHeight="20.0"
                                prefWidth="97.0" text="Leave Options ">
                                     <font>
                                          <Font name="Cambria" size="15.0" />
                                     </font>
                                </Label>
                                <ComboBox fx:id="leaveOptionsComboBox" layoutX="305.0"
                                layoutY="191.0" onAction="#comboChanged" prefHeight="26.0"
                                prefWidth="190.0" promptText="- - " />
                                <Label layoutX="538.0" layoutY="165.0" prefHeight="20.0"
                                prefWidth="82.0" text="No. of Days ">
                                     <font>
                                          <Font name="Cambria" size="15.0" />
                                     </font>
                                </Label>
                                <TextField fx:id="leaveDaysTextField" layoutX="538.0"
                                layoutY="191.0" prefHeight="26.0" prefWidth="81.0" />
                                <Label layoutX="303.0" layoutY="94.0" prefHeight="20.0"
                                prefWidth="73.0" text="Phone No.">
                                     <font>
                                          <Font name="Cambria" size="15.0" />
                                     </font>
                                </Label>
                                <TextField fx:id="phoneNoTextField" layoutX="303.0"
                                layoutY="119.0" prefHeight="26.0" prefWidth="176.0"
                                promptText="Eg 17358766" />
                                <Button fx:id="saveButton" layoutX="662.0" layoutY="576.0"
                                mnemonicParsing="false" onAction="#saveDetails"
                                prefHeight="14.0" prefWidth="66.0" text="Save">
                                     <font>
                                          <Font name="Cambria" size="15.0" />
                                     </font>
                                </Button>
                                <Button fx:id="backButton" layoutX="571.0" layoutY="577.0"
                                mnemonicParsing="false" onAction="#homePage" prefHeight="14.0"
                                prefWidth="66.0" text="Back">
                                     <font>
                                          <Font name="Cambria" size="15.0" />
                                     </font>
                                </Button>
                                <Label layoutX="30.0" layoutY="418.0" prefHeight="20.0"
                                prefWidth="75.0" text="Medicine ">
                                     <font>
                                          <Font name="Cambria" size="15.0" />
                                     </font>
                                </Label>
                         <ComboBox fx:id="medicineComboBox" layoutX="114.0" layoutY="415.0"
                         prefHeight="26.0" prefWidth="186.0" promptText="- - " />
                                <Label layoutX="30.0" layoutY="458.0" prefHeight="20.0"
                                prefWidth="80.0" text="Quantity">
                                     <font>
                                          <Font name="Cambria" size="15.0" />
```

```xml
                    </font>
                </Label>
                <TextField fx:id="medicineQuantityTextField" layoutX="116.0"
                layoutY="455.0" prefHeight="26.0" prefWidth="185.0" text="0" />
                <Label layoutX="416.0" layoutY="417.0" prefHeight="20.0"
                prefWidth="77.0" text="Injection ">
                    <font>
                        <Font name="Cambria" size="15.0" />
                    </font>
                </Label>
            <ComboBox fx:id="injectionComboBox" layoutX="535.0" layoutY="415.0"
            prefHeight="26.0" prefWidth="186.0" promptText="- - " />
                <Label layoutX="415.0" layoutY="457.0" prefHeight="20.0"
                prefWidth="80.0" text="Quantity">
                    <font>
                        <Font name="Cambria" size="15.0" />
                    </font>
                </Label>
                <TextField fx:id="injectionQuantityTextField" layoutX="537.0"
                layoutY="454.0" prefHeight="26.0" prefWidth="184.0" text="0" />
                <CheckBox fx:id="medicineChecBox" layoutX="114.0"
                layoutY="502.0" mnemonicParsing="false"
                onAction="#medicinePrescribed" prefHeight="26.0"
                prefWidth="202.0" text="Prescribe Medicine">
                    <font>
                        <Font name="Cambria" size="15.0" />
                    </font>
                </CheckBox>
                <CheckBox fx:id="injectionChecBox" layoutX="537.0"
                layoutY="502.0" mnemonicParsing="false"
                onAction="#prescribeInjection" prefHeight="26.0"
                prefWidth="202.0" text="Prescribe Injection">
                    <font>
                        <Font name="Cambria" size="15.0" />
                    </font>
                </CheckBox>
            <Label fx:id="nameErrorMessage" layoutX="134.0" layoutY="76.0"
            prefHeight="20.0" prefWidth="115.0" text="*Please Enter your name"
            textFill="RED" visible="false">
                <font>
                    <Font name="Arial" size="10.0" />
                </font>
            </Label>
            <Label fx:id="ageErrorMessage" layoutX="172.0" layoutY="146.0"
            prefHeight="20.0" prefWidth="87.0" text="*Please Enter Age"
            textFill="RED" visible="false">
                <font>
                    <Font name="Arial" size="10.0" />
                </font>
            </Label>
            <Label fx:id="genderErrorMessage" layoutX="35.0" layoutY="146.0"
            prefHeight="20.0" prefWidth="87.0" text="*Please Select One"
            textFill="RED" visible="false">
                <font>
                    <Font name="Arial" size="10.0" />
                </font>
            </Label>
            <Label fx:id="deptErrorMessage" layoutX="391.0" layoutY="76.0"
            prefHeight="20.0" prefWidth="87.0" text="*Please Select One"
            textFill="RED" visible="false">
                <font>
                    <Font name="Arial" size="10.0" />
                </font>
            </Label>
```

```xml
241                                    <Label fx:id="phoneNoErrorMessage" layoutX="333.0" layoutY="146.0"
                                       prefHeight="20.0" prefWidth="150.0" text="*Please Enter a Valid Phone
                                       No" textFill="RED" visible="false">
242                                        <font>
243                                            <Font name="Arial" size="10.0" />
244                                        </font>
245                                    </Label>
246                                    <Label fx:id="complaintErrorMessage" layoutX="409.0" layoutY="386.0"
                                       prefHeight="20.0" prefWidth="75.0" text="*Please Fill Up"
                                       textFill="RED" visible="false">
247                                        <font>
248                                            <Font name="Arial" size="10.0" />
249                                        </font>
250                                    </Label>
251                                    <Label fx:id="remarksErrorMessage" layoutX="678.0" layoutY="386.0"
                                       prefHeight="20.0" prefWidth="73.0" text="*Please Filll Up"
                                       textFill="RED" visible="false">
252                                        <font>
253                                            <Font name="Arial" size="10.0" />
254                                        </font>
255                                    </Label>
256                                    <Label fx:id="leaveDaysErrorMessage" layoutX="554.0" layoutY="217.0"
                                       prefHeight="20.0" prefWidth="75.0" text="*Please Fill Up"
                                       textFill="RED" visible="false">
257                                        <font>
258                                            <Font name="Arial" size="10.0" />
259                                        </font>
260                                    </Label>
261                                    <Label fx:id="leaveOptionsErrorMessage" layoutX="411.0" layoutY="217.0"
                                       prefHeight="20.0" prefWidth="87.0" text="*Please Select One"
                                       textFill="RED" visible="false">
262                                        <font>
263                                            <Font name="Arial" size="10.0" />
264                                        </font>
265                                    </Label>
266                                        </children>
267                                    </AnchorPane>
268                            </content>
269                        </ScrollPane>
270                    </children>
271                </AnchorPane>
272        </center>
273   </BorderPane>
274
```

```xml
1    <?xml version="1.0" encoding="UTF-8"?>
2
3    <!-- <!DOCTYPE xml> -->
4
5    <?import javafx.geometry.Insets?>
6    <?import javafx.scene.control.Button?>
7    <?import javafx.scene.control.CheckBox?>
8    <?import javafx.scene.control.ComboBox?>
9    <?import javafx.scene.control.DatePicker?>
10   <?import javafx.scene.control.Label?>
11   <?import javafx.scene.control.Menu?>
12   <?import javafx.scene.control.MenuBar?>
13   <?import javafx.scene.control.MenuItem?>
14   <?import javafx.scene.control.RadioButton?>
15   <?import javafx.scene.control.ScrollPane?>
16   <?import javafx.scene.control.TextArea?>
17   <?import javafx.scene.control.TextField?>
18   <?import javafx.scene.control.ToggleGroup?>
19   <?import javafx.scene.layout.AnchorPane?>
20   <?import javafx.scene.layout.BorderPane?>
21   <?import javafx.scene.text.Font?>
22
23   <BorderPane maxHeight="-Infinity" maxWidth="-Infinity" minHeight="-Infinity"
     minWidth="-Infinity" prefHeight="600.0" prefWidth="800.0" style="-fx-background-color: white;"
     xmlns="http://javafx.com/javafx/15.0.1" xmlns:fx="http://javafx.com/fxml/1"
     fx:controller="application.OtherPatientDetailsEntryController">
24       <top>
25           <AnchorPane prefHeight="84.0" prefWidth="800.0" BorderPane.alignment="CENTER">
26               <children>
27                   <MenuBar prefHeight="19.0" prefWidth="800.0" AnchorPane.leftAnchor="0.0"
                     AnchorPane.rightAnchor="0.0" AnchorPane.topAnchor="0.0">
28                       <menus>
29                           <Menu mnemonicParsing="false" text="File">
30                               <items>
31                                   <MenuItem mnemonicParsing="false" onAction="#HomePageMenuItem"
                                     text="Home Page" />
32                                   <MenuItem mnemonicParsing="false" onAction="#LogOutMenuItem"
                                     text="Log Out" />
33                                   <MenuItem mnemonicParsing="false" onAction="#ExitMenuItem"
                                     text="Exit" />
34                               </items>
35                           </Menu>
36                           <Menu mnemonicParsing="false" text="View">
37                               <items>
38                                   <MenuItem mnemonicParsing="false"
                                     onAction="#NewPatientEntryMenuItem" text="New Patient" />
39                                   <MenuItem mnemonicParsing="false"
                                     onAction="#ShowPatientRecordMenuItem" text="Show Patient
                                     Record" />
40                                   <MenuItem mnemonicParsing="false"
                                     onAction="#MedicineRecordsMenuItem" text="Medicine Records" />
41                               </items>
42                           </Menu>
43                           <Menu mnemonicParsing="false" text="Help">
44                               <items>
45                                   <MenuItem mnemonicParsing="false"
                                     onAction="#CollegeWebsiteLinksMenuItem" text="College Website
                                     Links" />
46                                   <MenuItem mnemonicParsing="false" onAction="#AboutMenuItem"
                                     text="About" />
47                               </items>
48                           </Menu>
49                       </menus>
50                   </MenuBar>
```

```xml
                        <Label alignment="CENTER" layoutY="26.0" prefHeight="58.0" prefWidth="800.0"
                            style="-fx-background-color: #C5C6C7;" text="New Patient Entry - Others"
                            textAlignment="CENTER" AnchorPane.leftAnchor="0.0" AnchorPane.rightAnchor="0.0"
                            AnchorPane.topAnchor="26.0">
                            <font>
                                <Font name="Roboto Condensed Bold" size="52.0" />
                            </font>
                            <padding>
                                <Insets left="40.0" />
                            </padding>
                        </Label>
                    </children>
                </AnchorPane>
            </top>
            <center>
                <AnchorPane prefHeight="200.0" prefWidth="200.0" BorderPane.alignment="CENTER">
                    <children>
                        <ScrollPane prefHeight="717.0" prefWidth="800.0" AnchorPane.bottomAnchor="-1.0"
                            AnchorPane.leftAnchor="0.0" AnchorPane.rightAnchor="0.0"
                            AnchorPane.topAnchor="0.0">
                            <content>
                                <AnchorPane prefHeight="641.0" prefWidth="799.0">
                                    <children>
                                        <TextArea fx:id="complaintTextArea" layoutX="35.0"
                                            layoutY="220.0" prefHeight="120.0" prefWidth="450.0" />
                                        <Label layoutX="32.0" layoutY="25.0" prefHeight="16.0"
                                            prefWidth="60.0" text="Name">
                                            <font>
                                                <Font name="Cambria" size="15.0" />
                                            </font>
                                        </Label>
                                        <TextField fx:id="nameTextField" layoutX="32.0" layoutY="50.0"
                                            prefHeight="26.0" prefWidth="215.0" />
                                        <Label layoutX="532.0" layoutY="25.0" prefHeight="16.0"
                                            prefWidth="60.0" text="Reg No.">
                                            <font>
                                                <Font name="Cambria" size="15.0" />
                                            </font>
                                        </Label>
                                        <TextField fx:id="regNoTextField" layoutX="532.0"
                                            layoutY="50.0" prefHeight="26.0" prefWidth="176.0" />
                                        <!-- <items> -->
                                        <!-- <FXCollections fx:factory="observableArrayList"> -->
                                        <!-- <String fx:value="Civil Department" /> -->
                                        <!-- <String fx:value="Architecture Department" /> -->
                                        <!-- <String fx:value="Electrical Department" /> -->
                                        <!-- <String fx:value="IT Department" /> -->
                                        <!-- <String fx:value="ECE Department" /> -->
                                        <!-- <String fx:value="Electrical Department" /> -->
                                        <!-- </FXCollections> -->
                                        <!-- </items> -->
                                        <!-- </ComboBox> -->
                                        <Label layoutX="34.0" layoutY="102.0" prefHeight="16.0"
                                            prefWidth="60.0" text="Sex">
                                            <font>
                                                <Font name="Cambria" size="15.0" />
                                            </font>
                                        </Label>
                                        <RadioButton fx:id="maleRadioButton" layoutX="35.0"
                                            layoutY="131.0" mnemonicParsing="false"
                                            onAction="#sexRadioSelect" text="Male">
                                            <toggleGroup>
                                                <ToggleGroup fx:id="gender" />
                                            </toggleGroup>
```

```
102        </RadioButton>
103        <RadioButton fx:id "femaleRadioButton" layoutX "94.0"
           layoutY "131.0" mnemonicParsing "false"
           onAction "#sexRadioSelect" text "Female" toggleGroup "$gender" />
104        <Label layoutX "173.0" layoutY "102.0" prefHeight "16.0"
           prefWidth "60.0" text "Age">
105            <font>
106                <Font name "Cambria" size "15.0" />
107            </font>
108        </Label>
109        <TextField fx:id "ageTextField" layoutX "173.0" layoutY "127.0"
           prefHeight "26.0" prefWidth "75.0" />
110        <Label layoutX "537.0" layoutY "102.0" prefHeight "16.0"
           prefWidth "60.0" text "Date">
111            <font>
112                <Font name "Cambria" size "15.0" />
113            </font>
114        </Label>
115        <DatePicker fx:id "DateSelector" layoutX "537.0"
           layoutY "127.0" prefHeight "26.0" prefWidth "175.0" />
116        <Label layoutX "299.0" layoutY "102.0" prefHeight "16.0"
           prefWidth "60.0" text "Time">
117            <font>
118                <Font name "Cambria" size "15.0" />
119            </font>
120        </Label>
121        <TextField fx:id "timeTextField" layoutX "299.0"
           layoutY "127.0" prefHeight "26.0" prefWidth "81.0"
           promptText "Eg 12:00" />
122        <RadioButton fx:id "amRadioButton" layoutX "395.0"
           layoutY "131.0" mnemonicParsing "false"
           onAction "#timeRadioSelect" text "AM">
123            <toggleGroup>
124                <ToggleGroup fx:id "timeSelect" />
125            </toggleGroup>
126        </RadioButton>
127        <RadioButton fx:id "pmRadioButton" layoutX "443.0"
           layoutY "131.0" mnemonicParsing "false"
           onAction "#timeRadioSelect" text "PM" toggleGroup "$timeSelect"
           />
128        <Label layoutX "35.0" layoutY "193.0" prefHeight "20.0"
           prefWidth "159.0" text "Complaint / Treatment ">
129            <font>
130                <Font name "Cambria" size "15.0" />
131            </font>
132        </Label>
133        <Label layoutX "522.0" layoutY "193.0" prefHeight "20.0"
           prefWidth "159.0" text "Remarks">
134            <font>
135                <Font name "Cambria" size "15.0" />
136            </font>
137        </Label>
138        <TextArea fx:id "remarksTextArea" layoutX "523.0"
           layoutY "220.0" prefHeight "120.0" prefWidth "232.0" />
139        <Label layoutX "300.0" layoutY "25.0" prefHeight "20.0"
           prefWidth "73.0" text "Phone No.">
140            <font>
141                <Font name "Cambria" size "15.0" />
142            </font>
143        </Label>
144        <TextField fx:id "phoneNoTextField" layoutX "300.0"
           layoutY "50.0" prefHeight "26.0" prefWidth "176.0"
           promptText "Eg 17358766" />
145        <Button fx:id "saveButton" layoutX "666.0" layoutY "530.0"
```

```
                              mnemonicParsing "false" onAction "#saveDetails"
                              prefHeight "14.0" prefWidth "66.0" text "Save">
146                               <font>
147                                   <Font name "Cambria" size "15.0" />
148                               </font>
149                           </Button>
150                           <Button fx:id "backButton" layoutX "575.0" layoutY "531.0"
                              mnemonicParsing "false" onAction "#homePage" prefHeight "14.0"
                              prefWidth "66.0" text "Back">
151                               <font>
152                                   <Font name "Cambria" size "15.0" />
153                               </font>
154                           </Button>
155                           <Label layoutX "34.0" layoutY "372.0" prefHeight "20.0"
                              prefWidth "75.0" text "Medicine ">
156                               <font>
157                                   <Font name "Cambria" size "15.0" />
158                               </font>
159                           </Label>
160                       <ComboBox fx:id "medicineComboBox" layoutX "118.0" layoutY "369.0"
                          prefHeight "26.0" prefWidth "186.0" promptText "- - " />
161                           <Label layoutX "34.0" layoutY "412.0" prefHeight "20.0"
                              prefWidth "80.0" text "Quantity">
162                               <font>
163                                   <Font name "Cambria" size "15.0" />
164                               </font>
165                           </Label>
166                           <TextField fx:id "medicineQuantityTextField" layoutX "120.0"
                              layoutY "409.0" prefHeight "26.0" prefWidth "185.0" text "0" />
167                           <Label layoutX "420.0" layoutY "371.0" prefHeight "20.0"
                              prefWidth "77.0" text "Injection ">
168                               <font>
169                                   <Font name "Cambria" size "15.0" />
170                               </font>
171                           </Label>
172                       <ComboBox fx:id "injectionComboBox" layoutX "539.0" layoutY "369.0"
                          prefHeight "26.0" prefWidth "186.0" promptText "- - " />
173                           <Label layoutX "419.0" layoutY "411.0" prefHeight "20.0"
                              prefWidth "80.0" text "Quantity">
174                               <font>
175                                   <Font name "Cambria" size "15.0" />
176                               </font>
177                           </Label>
178                           <TextField fx:id "injectionQuantityTextField" layoutX "541.0"
                              layoutY "408.0" prefHeight "26.0" prefWidth "184.0" text "0" />
179                           <CheckBox fx:id "medicineChecBox" layoutX "118.0"
                              layoutY "456.0" mnemonicParsing "false"
                              onAction "#medicinePrescribed" prefHeight "26.0"
                              prefWidth "202.0" text "Prescribe Medicine">
180                               <font>
181                                   <Font name "Cambria" size "15.0" />
182                               </font>
183                           </CheckBox>
184                           <CheckBox fx:id "injectionChecBox" layoutX "541.0"
                              layoutY "456.0" mnemonicParsing "false"
                              onAction "#prescribeInjection" prefHeight "26.0"
                              prefWidth "202.0" text "Prescribe Injection">
185                               <font>
186                                   <Font name "Cambria" size "15.0" />
187                               </font>
188                           </CheckBox>
189                       <Label fx:id "nameErrorMessage" layoutX "134.0" layoutY "76.0"
                          prefHeight "20.0" prefWidth "115.0" text "*Please Enter your name"
                          textFill "RED" visible "false">
```

```xml
190                         <font>
191                             <Font name "Arial" size "10.0" />
192                         </font>
193                     </Label>
194                     <Label fx:id "ageErrorMessage" layoutX "175.0" layoutY "152.0"
                        prefHeight "20.0" prefWidth "87.0" text "*Please Enter Age"
                        textFill "RED" visible "false">
195                         <font>
196                             <Font name "Arial" size "10.0" />
197                         </font>
198                     </Label>
199                     <Label fx:id "genderErrorMessage" layoutX "39.0" layoutY "153.0"
                        prefHeight "20.0" prefWidth "87.0" text "*Please Select One"
                        textFill "RED" visible "false">
200                         <font>
201                             <Font name "Arial" size "10.0" />
202                         </font>
203                     </Label>
204                     <Label fx:id "phoneNoErrorMessage" layoutX "330.0" layoutY "77.0"
                        prefHeight "20.0" prefWidth "150.0" text "*Please Enter a Valid Phone
                        No" textFill "RED" visible "false">
205                         <font>
206                             <Font name "Arial" size "10.0" />
207                         </font>
208                     </Label>
209                     <Label fx:id "complaintErrorMessage" layoutX "413.0" layoutY "340.0"
                        prefHeight "20.0" prefWidth "75.0" text "*Please Fill Up"
                        textFill "RED" visible "false">
210                         <font>
211                             <Font name "Arial" size "10.0" />
212                         </font>
213                     </Label>
214                     <Label fx:id "remarksErrorMessage" layoutX "682.0" layoutY "340.0"
                        prefHeight "20.0" prefWidth "73.0" text "*Please Filll Up"
                        textFill "RED" visible "false">
215                         <font>
216                             <Font name "Arial" size "10.0" />
217                         </font>
218                     </Label>
219                     </children>
220                     </AnchorPane>
221                 </content>
222             </ScrollPane>
223         </children>
224     </AnchorPane>
225   </center>
226 </BorderPane>
227
```

```xml
1   <?xml version="1.0" encoding="UTF-8"?>
2
3   <?import javafx.geometry.Insets?>
4   <?import javafx.scene.control.Button?>
5   <?import javafx.scene.control.Label?>
6   <?import javafx.scene.control.Menu?>
7   <?import javafx.scene.control.MenuBar?>
8   <?import javafx.scene.control.MenuItem?>
9   <?import javafx.scene.control.ScrollPane?>
10  <?import javafx.scene.control.TableColumn?>
11  <?import javafx.scene.control.TableView?>
12  <?import javafx.scene.control.TextField?>
13  <?import javafx.scene.effect.ImageInput?>
14  <?import javafx.scene.image.Image?>
15  <?import javafx.scene.layout.AnchorPane?>
16  <?import javafx.scene.layout.BorderPane?>
17  <?import javafx.scene.text.Font?>
18
19  <BorderPane maxHeight="-Infinity" maxWidth="-Infinity" minHeight="-Infinity"
    minWidth="-Infinity" prefHeight="600.0" prefWidth="800.0" style="-fx-background-color: white;"
    xmlns="http://javafx.com/javafx/15.0.1" xmlns:fx="http://javafx.com/fxml/1"
    fx:controller="application.PatientRecordsController">
20      <top>
21          <AnchorPane prefHeight="82.0" prefWidth="800.0" BorderPane.alignment="CENTER">
22              <children>
23                  <MenuBar prefHeight="19.0" prefWidth="800.0" AnchorPane.leftAnchor="0.0"
                    AnchorPane.rightAnchor="0.0" AnchorPane.topAnchor="0.0">
24                      <menus>
25                          <Menu mnemonicParsing="false" text="File">
26                              <items>
27                                  <MenuItem mnemonicParsing="false" onAction="#HomePageMenuItem"
                                    text="Home Page" />
28                                  <MenuItem mnemonicParsing="false" onAction="#LogOutMenuItem"
                                    text="Log Out" />
29                                  <MenuItem mnemonicParsing="false" onAction="#ExitMenuItem"
                                    text="Exit" />
30                              </items>
31                          </Menu>
32                          <Menu mnemonicParsing="false" text="View">
33                              <items>
34                                  <MenuItem mnemonicParsing="false"
                                    onAction="#NewPatientEntryMenuItem" text="New Patient" />
35                                  <MenuItem mnemonicParsing="false"
                                    onAction="#ShowPatientRecordMenuItem" text="Show Patient
                                    Record" />
36                                  <MenuItem mnemonicParsing="false"
                                    onAction="#MedicineRecordsMenuItem" text="Medicine Records" />
37                              </items>
38                          </Menu>
39                          <Menu mnemonicParsing="false" text="Help">
40                              <items>
41                                  <MenuItem mnemonicParsing="false"
                                    onAction="#CollegeWebsiteLinksMenuItem" text="College Website
                                    Links" />
42                                  <MenuItem mnemonicParsing="false" onAction="#AboutMenuItem"
                                    text="About" />
43                              </items>
44                          </Menu>
45                      </menus>
46                  </MenuBar>
47                  <Label alignment="CENTER" layoutY="24.0" prefHeight="62.0" prefWidth="800.0"
                    style="-fx-background-color: #C5C6C7;" text="Patient Records - Student"
                    textAlignment="CENTER" AnchorPane.leftAnchor="0.0" AnchorPane.rightAnchor="0.0"
                    AnchorPane.topAnchor="24.0">
```

```
48                      <font>
49                          <Font name="Roboto Condensed Bold" size="52.0" />
50                      </font>
51                      <padding>
52                          <Insets left="40.0" />
53                      </padding>
54                  </Label>
55              </children>
56          </AnchorPane>
57      </top>
58      <center>
59          <AnchorPane prefHeight="200.0" prefWidth="200.0" BorderPane.alignment="CENTER">
60              <children>
61                  <ScrollPane prefHeight="516.0" prefWidth="802.0" AnchorPane.bottomAnchor="0.0"
                        AnchorPane.leftAnchor="0.0" AnchorPane.rightAnchor="0.0"
                        AnchorPane.topAnchor="0.0">
62                      <content>
63                          <AnchorPane minHeight="1000.0" minWidth="3125.0" prefHeight="515.0"
                                prefWidth="800.0">
64                              <children>
65                                  <TableView id="recordsTable" fx:id="recordsTable"
                                        editable="true" layoutX="60.0" layoutY="69.0"
                                        prefHeight="900.0" prefWidth="3015.0">
66                                      <columns>
67                                          <TableColumn fx:id="col_regNo"
                                                prefWidth="123.19998168945312" text="Reg No" />
68                                          <TableColumn fx:id="col_name"
                                                prefWidth="275.1999969482422" text="Name" />
69                                          <TableColumn fx:id="col_stdNo"
                                                prefWidth="157.5999755859375" text="Student No" />
70                                          <TableColumn fx:id="col_year"
                                                minWidth="8.79998779296875"
                                                prefWidth="77.5999755859375" text="Year" />
71                                          <TableColumn fx:id="col_course"
                                                minWidth="1.5999755859375"
                                                prefWidth="159.20001220703125" text="Course" />
72                                          <TableColumn fx:id="col_dept"
                                                prefWidth="202.39996337890625" text="Department" />
73                                          <TableColumn fx:id="col_sex"
                                                prefWidth="39.2000732421875" text="Sex" />
74                                          <TableColumn fx:id="col_age" minWidth="0.0"
                                                prefWidth="38.39990234375" text="Age" />
75                                          <TableColumn fx:id="col_phoneNo"
                                                prefWidth="117.5999755859375" text="Phone No." />
76                                          <TableColumn fx:id="col_date" minWidth="0.0"
                                                prefWidth="148.8001708984375" text="Date" />
77                                          <TableColumn fx:id="col_time" prefWidth="108.0"
                                                text="Time" />
78                                          <TableColumn fx:id="col_leaveOptions"
                                                prefWidth="283.2000732421875" text="Leave Options" />
79                                          <TableColumn fx:id="col_leaveDays"
                                                minWidth="3.199951171875" prefWidth="95.2000732421875"
                                                text="No. of Days" />
80                                          <TableColumn fx:id="col_complaint"
                                                prefWidth="703.9998779296875"
                                                text="Complaint/Treatment" />
81                                          <TableColumn fx:id="col_remarks" minWidth="0.0"
                                                prefWidth="480.800048828125" text="Remarks" />
82                                      </columns>
83                                  </TableView>
84                                  <Button fx:id="logoutButton" layoutX="650.0" layoutY="22.0"
                                        mnemonicParsing="false" onAction="#logout" prefHeight="27.0"
                                        prefWidth="62.0" text="Logout">
85                                      <font>
```

```
 86                                    <Font name="Roboto Condensed Bold" size="15.0" />
 87                                </font>
 88                            </Button>
 89                            <Button fx:id="backButton" layoutX="571.0" layoutY="21.0"
                               mnemonicParsing="false" onAction="#backToHomePage"
                               prefHeight="27.0" prefWidth="62.0" text="Back">
 90                                <font>
 91                                    <Font name="Roboto Condensed Bold" size="15.0" />
 92                                </font>
 93                            </Button>
 94                            <TextField fx:id="filterByTextField" layoutX="114.0"
                               layoutY="26.0" prefHeight="26.0" prefWidth="157.0"
                               promptText="Filter by... " />
 95                            <Label layoutX="60.0" layoutY="27.0" text="Search: ">
 96                                <font>
 97                                    <Font name="Roboto Condensed Regular" size="15.0" />
 98                                </font>
 99                            </Label>
100                        <Button fx:id="searchButton" layoutX="281.0" layoutY="23.0"
                           mnemonicParsing="false" onAction="#filterTable" prefHeight="30.0"
                           prefWidth="30.0" text="Search">
101                            <font>
102                                <Font name="Roboto Condensed Bold" size="15.0" />
103                            </font>
104                            <effect>
105                                <ImageInput>
106                                    <source>
107                                        <Image
                                        url="file:/C:/Users/USER/eclipse-workspace/InfirmaryManagemen
                                        tSystem/Images/Search.png" />
108                                    </source>
109                                </ImageInput>
110                            </effect>
111                        </Button>
112                        <Button fx:id="refreshButton" layoutX="321.0" layoutY="23.0"
                           mnemonicParsing="false" onAction="#initialize" prefHeight="30.0"
                           prefWidth="30.0" text="Refresh">
113                            <font>
114                                <Font name="Roboto Condensed Bold" size="15.0" />
115                            </font>
116                            <effect>
117                                <ImageInput>
118                                    <source>
119                                        <Image
                                        url="file:/C:/Users/USER/eclipse-workspace/InfirmaryManagemen
                                        tSystem/Images/Refresh.png" />
120                                    </source>
121                                </ImageInput>
122                            </effect>
123                        </Button>
124                        <Button fx:id="deleteButton" layoutX="361.0" layoutY="23.0"
                           mnemonicParsing="false" onAction="#deleteRow" prefHeight="30.0"
                           prefWidth="30.0" text="Delete">
125                            <font>
126                                <Font name="Roboto Condensed Bold" size="15.0" />
127                            </font>
128                            <effect>
129                                <ImageInput>
130                                    <source>
131                                        <Image
                                        url="file:/C:/Users/USER/eclipse-workspace/InfirmaryManagemen
                                        tSystem/Images/Delete.png" />
132                                    </source>
133                                </ImageInput>
```

```
                                    </effect>
                            </Button>
                                </children>
                            </AnchorPane>
                        </content>
                    </ScrollPane>
                </children>
            </AnchorPane>
        </center>
</BorderPane>
```

```xml
1    <?xml version="1.0" encoding="UTF-8"?>
2
3    <?import javafx.geometry.Insets?>
4    <?import javafx.scene.control.Button?>
5    <?import javafx.scene.control.Label?>
6    <?import javafx.scene.control.Menu?>
7    <?import javafx.scene.control.MenuBar?>
8    <?import javafx.scene.control.MenuItem?>
9    <?import javafx.scene.control.ScrollPane?>
10   <?import javafx.scene.control.TableColumn?>
11   <?import javafx.scene.control.TableView?>
12   <?import javafx.scene.control.TextField?>
13   <?import javafx.scene.effect.ImageInput?>
14   <?import javafx.scene.image.Image?>
15   <?import javafx.scene.layout.AnchorPane?>
16   <?import javafx.scene.layout.BorderPane?>
17   <?import javafx.scene.text.Font?>
18
19   <BorderPane maxHeight="-Infinity" maxWidth="-Infinity" minHeight="-Infinity"
     minWidth="-Infinity" prefHeight="600.0" prefWidth="800.0" style="-fx-background-color: white;"
     xmlns="http://javafx.com/javafx/15.0.1" xmlns:fx="http://javafx.com/fxml/1"
     fx:controller="application.StaffPatientRecordsController">
20       <top>
21           <AnchorPane prefHeight="82.0" prefWidth="800.0" BorderPane.alignment="CENTER">
22               <children>
23                   <MenuBar prefHeight="19.0" prefWidth="800.0" AnchorPane.leftAnchor="0.0"
                     AnchorPane.rightAnchor="0.0" AnchorPane.topAnchor="0.0">
24                       <menus>
25                           <Menu mnemonicParsing="false" text="File">
26                               <items>
27                                   <MenuItem mnemonicParsing="false" onAction="#HomePageMenuItem"
                                     text="Home Page" />
28                                   <MenuItem mnemonicParsing="false" onAction="#LogOutMenuItem"
                                     text="Log Out" />
29                                   <MenuItem mnemonicParsing="false" onAction="#ExitMenuItem"
                                     text="Exit" />
30                               </items>
31                           </Menu>
32                           <Menu mnemonicParsing="false" text="View">
33                               <items>
34                                   <MenuItem mnemonicParsing="false"
                                     onAction="#NewPatientEntryMenuItem" text="New Patient" />
35                                   <MenuItem mnemonicParsing="false"
                                     onAction="#ShowPatientRecordMenuItem" text="Show Patient
                                     Record" />
36                                   <MenuItem mnemonicParsing="false"
                                     onAction="#MedicineRecordsMenuItem" text="Medicine Records" />
37                               </items>
38                           </Menu>
39                           <Menu mnemonicParsing="false" text="Help">
40                               <items>
41                                   <MenuItem mnemonicParsing="false"
                                     onAction="#CollegeWebsiteLinksMenuItem" text="College Website
                                     Links" />
42                                   <MenuItem mnemonicParsing="false" onAction="#AboutMenuItem"
                                     text="About" />
43                               </items>
44                           </Menu>
45                       </menus>
46                   </MenuBar>
47                   <Label alignment="CENTER" layoutY="24.0" prefHeight="62.0" prefWidth="800.0"
                     style="-fx-background-color: #C5C6C7;" text="Patient Records - Staffs"
                     AnchorPane.leftAnchor="0.0" AnchorPane.rightAnchor="0.0"
                     AnchorPane.topAnchor="24.0">
```

```xml
                    <font>
                        <Font name="Roboto Condensed Bold" size="52.0" />
                    </font>
                    <padding>
                        <Insets left="40.0" />
                    </padding>
                </Label>
            </children>
        </AnchorPane>
    </top>
    <center>
        <AnchorPane prefHeight="200.0" prefWidth="200.0" BorderPane.alignment="CENTER">
            <children>
                <ScrollPane prefHeight="516.0" prefWidth="802.0" AnchorPane.bottomAnchor="0.0"
                    AnchorPane.leftAnchor="0.0" AnchorPane.rightAnchor="0.0"
                    AnchorPane.topAnchor="0.0">
                    <content>
                        <AnchorPane minHeight="1000.0" minWidth="2755.0" prefHeight="515.0"
                            prefWidth="800.0">
                            <children>
                                <TableView id="recordsTable" fx:id="recordsTable"
                                    editable="true" layoutX="60.0" layoutY="69.0"
                                    prefHeight="900.0" prefWidth="2459.0">
                                    <columns>
                                        <TableColumn fx:id="col_regNo"
                                            prefWidth="123.19998168945312" text="Reg No" />
                                        <TableColumn fx:id="col_name"
                                            prefWidth="275.1999969482422" text="Name" />
                                        <TableColumn fx:id="col_dept"
                                            prefWidth="202.39996337890625" text="Department" />
                                        <TableColumn fx:id="col_sex"
                                            prefWidth="39.2000732421875" text="Sex" />
                                        <TableColumn fx:id="col_age" minWidth="0.0"
                                            prefWidth="38.39990234375" text="Age" />
                                        <TableColumn fx:id="col_phoneNo"
                                            prefWidth="117.5999755859375" text="Phone No." />
                                        <TableColumn fx:id="col_date" minWidth="0.0"
                                            prefWidth="148.8001708984375" text="Date" />
                                        <TableColumn fx:id="col_time" prefWidth="108.0"
                                            text="Time" />
                                        <TableColumn fx:id="col_leaveOptions"
                                            prefWidth="283.2000732421875" text="Leave Options" />
                                        <TableColumn fx:id="col_leaveDays"
                                            minWidth="3.199951171875" prefWidth="95.2000732421875"
                                            text="No. of Days" />
                                        <TableColumn fx:id="col_complaint"
                                            prefWidth="703.9998779296875"
                                            text="Complaint/Treatment" />
                                        <TableColumn fx:id="col_remarks" minWidth="0.0"
                                            prefWidth="318.400146484375" text="Remarks" />
                                    </columns>
                                </TableView>
                                <Button fx:id="logoutButton" layoutX="650.0" layoutY="22.0"
                                    mnemonicParsing="false" onAction="#logout" prefHeight="27.0"
                                    prefWidth="62.0" text="Logout">
                                    <font>
                                        <Font name="Roboto Condensed Bold" size="15.0" />
                                    </font>
                                </Button>
                                <Button fx:id="backButton" layoutX="571.0" layoutY="21.0"
                                    mnemonicParsing="false" onAction="#backToHomePage"
                                    prefHeight="27.0" prefWidth="62.0" text="Back">
                                    <font>
                                        <Font name="Roboto Condensed Bold" size="15.0" />
```

```xml
                              </font>
                          </Button>
                          <TextField fx:id="filterByTextField" layoutX="114.0"
                          layoutY="26.0" prefHeight="26.0" prefWidth="157.0"
                          promptText="Filter by... " />
                          <Label layoutX="60.0" layoutY="27.0" text="Search: ">
                              <font>
                                  <Font name="Roboto Condensed Regular" size="15.0" />
                              </font>
                          </Label>
                      <Button fx:id="searchButton" layoutX="281.0" layoutY="23.0"
                      mnemonicParsing="false" onAction="#filterTable" prefHeight="30.0"
                      prefWidth="30.0" text="Search">
                          <font>
                              <Font name="Roboto Condensed Bold" size="15.0" />
                          </font>
                          <effect>
                              <ImageInput>
                                  <source>
                                      <Image
                                      url="file:/C:/Users/USER/eclipse-workspace/InfirmaryManagemen
                                      tSystem/Images/Search.png" />
                                  </source>
                              </ImageInput>
                          </effect>
                      </Button>
                      <Button fx:id="refreshButton" layoutX="321.0" layoutY="23.0"
                      mnemonicParsing="false" onAction="#initialize" prefHeight="30.0"
                      prefWidth="30.0" text="Refresh">
                          <font>
                              <Font name="Roboto Condensed Bold" size="15.0" />
                          </font>
                          <effect>
                              <ImageInput>
                                  <source>
                                      <Image
                                      url="file:/C:/Users/USER/eclipse-workspace/InfirmaryManagemen
                                      tSystem/Images/Refresh.png" />
                                  </source>
                              </ImageInput>
                          </effect>
                      </Button>
                      <Button fx:id="deleteButton" layoutX="361.0" layoutY="23.0"
                      mnemonicParsing="false" onAction="#deleteRow" prefHeight="30.0"
                      prefWidth="30.0" text="Delete">
                          <font>
                              <Font name="Roboto Condensed Bold" size="15.0" />
                          </font>
                          <effect>
                              <ImageInput>
                                  <source>
                                      <Image
                                      url="file:/C:/Users/USER/eclipse-workspace/InfirmaryManagemen
                                      tSystem/Images/Delete.png" />
                                  </source>
                              </ImageInput>
                          </effect>
                      </Button>
                          </children>
                      </AnchorPane>
                  </content>
              </ScrollPane>
          </children>
      </AnchorPane>
```

```
139        </center>
140    </BorderPane>
141
```

```xml
1   <?xml version="1.0" encoding="UTF-8"?>
2
3   <?import javafx.geometry.Insets?>
4   <?import javafx.scene.control.Button?>
5   <?import javafx.scene.control.Label?>
6   <?import javafx.scene.control.Menu?>
7   <?import javafx.scene.control.MenuBar?>
8   <?import javafx.scene.control.MenuItem?>
9   <?import javafx.scene.control.ScrollPane?>
10  <?import javafx.scene.control.TableColumn?>
11  <?import javafx.scene.control.TableView?>
12  <?import javafx.scene.control.TextField?>
13  <?import javafx.scene.effect.ImageInput?>
14  <?import javafx.scene.image.Image?>
15  <?import javafx.scene.layout.AnchorPane?>
16  <?import javafx.scene.layout.BorderPane?>
17  <?import javafx.scene.text.Font?>
18
19  <BorderPane maxHeight="-Infinity" maxWidth="-Infinity" minHeight="-Infinity"
    minWidth="-Infinity" prefHeight="600.0" prefWidth="800.0" style="-fx-background-color: white;"
    xmlns="http://javafx.com/javafx/15.0.1" xmlns:fx="http://javafx.com/fxml/1"
    fx:controller="application.OtherPatientRecordsController">
20      <top>
21          <AnchorPane prefHeight="82.0" prefWidth="800.0" BorderPane.alignment="CENTER">
22              <children>
23                  <MenuBar prefHeight="19.0" prefWidth="800.0" AnchorPane.leftAnchor="0.0"
                    AnchorPane.rightAnchor="0.0" AnchorPane.topAnchor="0.0">
24                      <menus>
25                          <Menu mnemonicParsing="false" text="File">
26                              <items>
27                                  <MenuItem mnemonicParsing="false" onAction="#HomePageMenuItem"
                                    text="Home Page" />
28                                  <MenuItem mnemonicParsing="false" onAction="#LogOutMenuItem"
                                    text="Log Out" />
29                                  <MenuItem mnemonicParsing="false" onAction="#ExitMenuItem"
                                    text="Exit" />
30                              </items>
31                          </Menu>
32                          <Menu mnemonicParsing="false" text="View">
33                              <items>
34                                  <MenuItem mnemonicParsing="false"
                                    onAction="#NewPatientEntryMenuItem" text="New Patient" />
35                                  <MenuItem mnemonicParsing="false"
                                    onAction="#ShowPatientRecordMenuItem" text="Show Patient
                                    Record" />
36                                  <MenuItem mnemonicParsing="false"
                                    onAction="#MedicineRecordsMenuItem" text="Medicine Records" />
37                              </items>
38                          </Menu>
39                          <Menu mnemonicParsing="false" text="Help">
40                              <items>
41                                  <MenuItem mnemonicParsing="false"
                                    onAction="#CollegeWebsiteLinksMenuItem" text="College Website
                                    Links" />
42                                  <MenuItem mnemonicParsing="false" onAction="#AboutMenuItem"
                                    text="About" />
43                              </items>
44                          </Menu>
45                      </menus>
46                  </MenuBar>
47                  <Label alignment="CENTER" layoutY="24.0" prefHeight="62.0" prefWidth="800.0"
                    style="-fx-background-color: #C5C6C7;" text="Patient Records - Others"
                    AnchorPane.leftAnchor="0.0" AnchorPane.rightAnchor="0.0"
                    AnchorPane.topAnchor="24.0">
```

```xml
48                        <font>
49                            <Font name="Roboto Condensed Bold" size="52.0" />
50                        </font>
51                        <padding>
52                            <Insets left="40.0" />
53                        </padding>
54                    </Label>
55                </children>
56            </AnchorPane>
57        </top>
58        <center>
59            <AnchorPane prefHeight="200.0" prefWidth="200.0" BorderPane.alignment="CENTER">
60                <children>
61                    <ScrollPane prefHeight="516.0" prefWidth="802.0" AnchorPane.bottomAnchor="0.0"
62                    AnchorPane.leftAnchor="0.0" AnchorPane.rightAnchor="0.0"
                    AnchorPane.topAnchor="0.0">
                        <content>
63                            <AnchorPane minHeight="1000.0" minWidth="2050.0" prefHeight="515.0"
                            prefWidth="800.0">
64                                <children>
65                                    <TableView id="recordsTable" fx:id="recordsTable"
                                    editable="true" layoutX="60.0" layoutY="69.0"
                                    prefHeight="900.0" prefWidth="1879.0">
66                                        <columns>
67                                            <TableColumn fx:id="col_regNo"
                                            prefWidth="123.19998168945312" text="Reg No" />
68                                            <TableColumn fx:id="col_name"
                                            prefWidth="275.1999969482422" text="Name" />
69                                            <TableColumn fx:id="col_sex"
                                            prefWidth="39.2000732421875" text="Sex" />
70                                            <TableColumn fx:id="col_age" minWidth="0.0"
                                            prefWidth="38.39990234375" text="Age" />
71                                            <TableColumn fx:id="col_phoneNo"
                                            prefWidth="117.5999755859375" text="Phone No." />
72                                            <TableColumn fx:id="col_date" minWidth="0.0"
                                            prefWidth="148.8001708984375" text="Date" />
73                                            <TableColumn fx:id="col_time" prefWidth="108.0"
                                            text="Time" />
74                                            <TableColumn fx:id="col_complaint"
                                            prefWidth="703.9998779296875"
                                            text="Complaint/Treatment" />
75                                            <TableColumn fx:id="col_remarks" minWidth="0.0"
                                            prefWidth="318.400146484375" text="Remarks" />
76                                        </columns>
77                                    </TableView>
78                                    <Button fx:id="logoutButton" layoutX="650.0" layoutY="22.0"
                                    mnemonicParsing="false" onAction="#logout" prefHeight="27.0"
                                    prefWidth="62.0" text="Logout">
79                                        <font>
80                                            <Font name="Roboto Condensed Bold" size="15.0" />
81                                        </font>
82                                    </Button>
83                                    <Button fx:id="backButton" layoutX="571.0" layoutY="21.0"
                                    mnemonicParsing="false" onAction="#backToHomePage"
                                    prefHeight="27.0" prefWidth="62.0" text="Back">
84                                        <font>
85                                            <Font name="Roboto Condensed Bold" size="15.0" />
86                                        </font>
87                                    </Button>
88                                    <TextField fx:id="filterByTextField" layoutX="114.0"
                                    layoutY="26.0" prefHeight="26.0" prefWidth="157.0"
                                    promptText="Filter by... " />
89                                    <Label layoutX="60.0" layoutY="27.0" text="Search: ">
90                                        <font>
```

```xml
                                    <Font name="Roboto Condensed Regular" size="15.0" />
                                </font>
                            </Label>
                        <Button fx:id="searchButton" layoutX="281.0" layoutY="23.0"
                        mnemonicParsing="false" onAction="#filterTable" prefHeight="30.0"
                        prefWidth="30.0" text="Search">
                            <font>
                                <Font name="Roboto Condensed Bold" size="15.0" />
                            </font>
                            <effect>
                                <ImageInput>
                                    <source>
                                        <Image
                                        url="file:/C:/Users/USER/eclipse-workspace/InfirmaryManagemen
                                        tSystem/Images/Search.png" />
                                    </source>
                                </ImageInput>
                            </effect>
                        </Button>
                        <Button fx:id="refreshButton" layoutX="321.0" layoutY="23.0"
                        mnemonicParsing="false" onAction="#initialize" prefHeight="30.0"
                        prefWidth="30.0" text="Refresh">
                            <font>
                                <Font name="Roboto Condensed Bold" size="15.0" />
                            </font>
                            <effect>
                                <ImageInput>
                                    <source>
                                        <Image
                                        url="file:/C:/Users/USER/eclipse-workspace/InfirmaryManagemen
                                        tSystem/Images/Refresh.png" />
                                    </source>
                                </ImageInput>
                            </effect>
                        </Button>
                        <Button fx:id="deleteButton" layoutX="361.0" layoutY="23.0"
                        mnemonicParsing="false" onAction="#deleteRow" prefHeight="30.0"
                        prefWidth="30.0" text="Delete">
                            <font>
                                <Font name="Roboto Condensed Bold" size="15.0" />
                            </font>
                            <effect>
                                <ImageInput>
                                    <source>
                                        <Image
                                        url="file:/C:/Users/USER/eclipse-workspace/InfirmaryManagemen
                                        tSystem/Images/Delete.png" />
                                    </source>
                                </ImageInput>
                            </effect>
                        </Button>
                            </children>
                        </AnchorPane>
                    </content>
                </ScrollPane>
            </children>
        </AnchorPane>
    </center>
</BorderPane>
```

```xml
1    <?xml version="1.0" encoding="UTF-8"?>
2
3    <!-- <!DOCTYPE xml> -->
4
5    <?import javafx.scene.control.Button?>
6    <?import javafx.scene.control.Hyperlink?>
7    <?import javafx.scene.control.Label?>
8    <?import javafx.scene.control.Menu?>
9    <?import javafx.scene.control.MenuBar?>
10   <?import javafx.scene.control.MenuItem?>
11   <?import javafx.scene.control.Separator?>
12   <?import javafx.scene.image.Image?>
13   <?import javafx.scene.image.ImageView?>
14   <?import javafx.scene.layout.AnchorPane?>
15   <?import javafx.scene.layout.BorderPane?>
16   <?import javafx.scene.text.Font?>
17
18   <BorderPane focusTraversable="true" maxHeight="-Infinity" maxWidth="-Infinity"
     minHeight="-Infinity" minWidth="-Infinity" prefHeight="600.0" prefWidth="800.0"
     style="-fx-background-color: white;" xmlns="http://javafx.com/javafx/15.0.1"
     xmlns:fx="http://javafx.com/fxml/1" fx:controller="application.CollegeWebsiteLinksController">
19       <top>
20           <AnchorPane prefHeight="183.0" prefWidth="800.0" BorderPane.alignment="CENTER">
21               <children>
22                   <MenuBar prefHeight="19.0" prefWidth="800.0" AnchorPane.leftAnchor="0.0"
                     AnchorPane.rightAnchor="0.0" AnchorPane.topAnchor="0.0">
23                       <menus>
24                           <Menu mnemonicParsing="false" text="File">
25                               <items>
26                                   <MenuItem mnemonicParsing="false" onAction="#HomePageMenuItem"
                                     text="Home Page" />
27                                   <MenuItem mnemonicParsing="false" onAction="#LogOutMenuItem"
                                     text="Log Out" />
28                                   <MenuItem mnemonicParsing="false" onAction="#ExitMenuItem"
                                     text="Exit" />
29                               </items>
30                           </Menu>
31                           <Menu mnemonicParsing="false" text="View">
32                               <items>
33                                   <MenuItem mnemonicParsing="false"
                                     onAction="#NewPatientEntryMenuItem" text="New Patient" />
34                                   <MenuItem mnemonicParsing="false"
                                     onAction="#ShowPatientRecordMenuItem" text="Show Patient
                                     Record" />
35                                   <MenuItem mnemonicParsing="false"
                                     onAction="#MedicineRecordsMenuItem" text="Medicine Records" />
36                               </items>
37                           </Menu>
38                           <Menu mnemonicParsing="false" text="Help">
39                               <items>
40                                   <MenuItem mnemonicParsing="false"
                                     onAction="#CollegeWebsiteLinksMenuItem" text="College Website
                                     Links" />
41                                   <MenuItem mnemonicParsing="false" onAction="#AboutMenuItem"
                                     text="About" />
42                               </items>
43                           </Menu>
44                       </menus>
45                   </MenuBar>
46                   <ImageView fitHeight="250.0" fitWidth="800.0" layoutY="26.0"
                     pickOnBounds="true" preserveRatio="true">
47                       <image>
48                           <Image url="@../../Images/HomePageHeader.png" />
49                       </image>
```

```
50                        </ImageView>
51                    </children>
52                </AnchorPane>
53           </top>
54           <center>
55               <AnchorPane prefHeight="350.0" prefWidth="800.0" BorderPane.alignment="CENTER">
56                   <children>
57                       <Button fx:id="HomePage" layoutX="599.0" layoutY="337.0"
                         mnemonicParsing="false" onAction="#HomePage" prefHeight="26.0" prefWidth="74.0"
                         text="Home">
58                           <font>
59                               <Font name="Roboto Condensed Bold" size="18.0" />
60                           </font>
61                       </Button>
62                   <Button fx:id="Logout" layoutX="687.0" layoutY="337.0" mnemonicParsing="false"
                     onAction="#userLogout" prefHeight="26.0" prefWidth="74.0" text="Logout">
63                       <font>
64                           <Font name="Roboto Condensed Bold" size="18.0" />
65                       </font>
66                   </Button>
67                       <Label layoutX="250.0" layoutY="52.0" prefHeight="28.0" prefWidth="104.0"
                         text="CST Website">
68                           <font>
69                               <Font name="Roboto Condensed Bold" size="20.0" />
70                           </font>
71                       </Label>
72                   <Hyperlink fx:id="cstWebsite" layoutX="397.0" layoutY="55.0" onAction="#cstWebsite"
                     prefHeight="23.0" prefWidth="183.0" text="https://cst.edu.bt/index.php/en/" />
73                   <Label layoutX="250.0" layoutY="92.0" prefHeight="28.0" prefWidth="114.0" text="RUB
                     IMS">
74                       <font>
75                           <Font name="Roboto Condensed Bold" size="20.0" />
76                       </font>
77                   </Label>
78                   <Hyperlink fx:id="rubIMS" layoutX="397.0" layoutY="94.0" onAction="#rubIMS"
                     prefHeight="23.0" prefWidth="183.0" text="https://ims.rub.edu.bt/" />
79                   <Label layoutX="250.0" layoutY="132.0" prefHeight="28.0" prefWidth="114.0"
                     text="Mail">
80                       <font>
81                           <Font name="Roboto Condensed Bold" size="20.0" />
82                       </font>
83                   </Label>
84                   <Hyperlink fx:id="mail" layoutX="397.0" layoutY="134.0" onAction="#mail"
                     prefHeight="23.0" prefWidth="183.0" text="http://mail.rub.edu.bt/" />
85                   <Label layoutX="250.0" layoutY="172.0" prefHeight="28.0" prefWidth="114.0"
                     text="VLE (Moodle)">
86                       <font>
87                           <Font name="Roboto Condensed Bold" size="20.0" />
88                       </font>
89                   </Label>
90                   <Hyperlink fx:id="vle" layoutX="397.0" layoutY="174.0" onAction="#vle"
                     prefHeight="23.0" prefWidth="183.0" text="https://vle.cst.edu.bt/" />
91                   <Label layoutX="250.0" layoutY="212.0" prefHeight="28.0" prefWidth="114.0"
                     text="Library ">
92                       <font>
93                           <Font name="Roboto Condensed Bold" size="20.0" />
94                       </font>
95                   </Label>
96                   <Hyperlink fx:id="library" layoutX="397.0" layoutY="214.0" onAction="#library"
                     prefHeight="23.0" prefWidth="183.0" text="https://lib.cst.edu.bt/" />
97                   <Label layoutX="250.0" layoutY="252.0" prefHeight="28.0" prefWidth="114.0"
                     text="MRBS">
98                       <font>
99                           <Font name="Roboto Condensed Bold" size="20.0" />
```

```
                    </font>
            </Label>
            <Hyperlink fx:id="mrbs" layoutX="397.0" layoutY="254.0" onAction="#mrbs"
            prefHeight="23.0" prefWidth="223.0" text="https://vle.cst.edu.bt/mrbs/web/day.php" />
            <Separator layoutX="378.0" layoutY="48.0" orientation="VERTICAL" prefHeight="234.0"
            prefWidth="4.0" />
            <Label layoutX="319.0" layoutY="-4.0" prefHeight="31.0" prefWidth="124.0" text="Web
            Links">
                <font>
                    <Font name="Cambria Bold" size="25.0" />
                </font>
            </Label>
        </children>
    </AnchorPane>
  </center>
</BorderPane>
```

```xml
1    <?xml version="1.0" encoding="UTF-8"?>
2
3    <!-- <!DOCTYPE xml> -->
4
5    <?import javafx.scene.control.Button?>
6    <?import javafx.scene.control.Label?>
7    <?import javafx.scene.control.Menu?>
8    <?import javafx.scene.control.MenuBar?>
9    <?import javafx.scene.control.MenuItem?>
10   <?import javafx.scene.control.Separator?>
11   <?import javafx.scene.image.Image?>
12   <?import javafx.scene.image.ImageView?>
13   <?import javafx.scene.layout.AnchorPane?>
14   <?import javafx.scene.layout.BorderPane?>
15   <?import javafx.scene.text.Font?>
16
17   <BorderPane focusTraversable="true" maxHeight="-Infinity" maxWidth="-Infinity"
     minHeight="-Infinity" minWidth="-Infinity" prefHeight="600.0" prefWidth="800.0"
     style="-fx-background-color: white;" xmlns="http://javafx.com/javafx/15.0.1"
     xmlns:fx="http://javafx.com/fxml/1" fx:controller="application.CollegeWebsiteLinksController">
18       <top>
19           <AnchorPane prefHeight="183.0" prefWidth="800.0" BorderPane.alignment="CENTER">
20               <children>
21                   <MenuBar prefHeight="19.0" prefWidth="800.0" AnchorPane.leftAnchor="0.0"
                     AnchorPane.rightAnchor="0.0" AnchorPane.topAnchor="0.0">
22                       <menus>
23                           <Menu mnemonicParsing="false" text="File">
24                               <items>
25                                   <MenuItem mnemonicParsing="false" onAction="#HomePageMenuItem"
                                     text="Home Page" />
26                                   <MenuItem mnemonicParsing="false" onAction="#LogOutMenuItem"
                                     text="Log Out" />
27                                   <MenuItem mnemonicParsing="false" onAction="#ExitMenuItem"
                                     text="Exit" />
28                               </items>
29                           </Menu>
30                           <Menu mnemonicParsing="false" text="View">
31                               <items>
32                                   <MenuItem mnemonicParsing="false"
                                     onAction="#NewPatientEntryMenuItem" text="New Patient" />
33                                   <MenuItem mnemonicParsing="false"
                                     onAction="#ShowPatientRecordMenuItem" text="Show Patient
                                     Record" />
34                                   <MenuItem mnemonicParsing="false"
                                     onAction="#MedicineRecordsMenuItem" text="Medicine Records" />
35                               </items>
36                           </Menu>
37                           <Menu mnemonicParsing="false" text="Help">
38                               <items>
39                                   <MenuItem mnemonicParsing="false"
                                     onAction="#CollegeWebsiteLinksMenuItem" text="College Website
                                     Links" />
40                                   <MenuItem mnemonicParsing="false" onAction="#AboutMenuItem"
                                     text="About" />
41                               </items>
42                           </Menu>
43                       </menus>
44                   </MenuBar>
45                   <ImageView fitHeight="250.0" fitWidth="800.0" layoutY="26.0"
                     pickOnBounds="true" preserveRatio="true">
46                       <image>
47                           <Image url="@../../Images/HomePageHeader.png" />
48                       </image>
49                   </ImageView>
```

```xml
50                </children>
51            </AnchorPane>
52        </top>
53        <left>
54            <AnchorPane prefHeight="350.0" prefWidth="800.0" BorderPane.alignment="CENTER">
55                <children>
56                    <Button fx:id="HomePage" layoutX="599.0" layoutY="337.0"
                        mnemonicParsing="false" onAction="#HomePage" prefHeight="26.0" prefWidth="74.0"
                        text="Home">
57                        <font>
58                            <Font name="Roboto Condensed Bold" size="18.0" />
59                        </font>
60                    </Button>
61                    <Button fx:id="Logout" layoutX="687.0" layoutY="337.0" mnemonicParsing="false"
                        onAction="#userLogout" prefHeight="26.0" prefWidth="74.0" text="Logout">
62                        <font>
63                            <Font name="Roboto Condensed Bold" size="18.0" />
64                        </font>
65                    </Button>
66                    <Label alignment="TOP_LEFT" layoutX="112.0" layoutY="53.0" prefHeight="88.0"
                        prefWidth="604.0" text="Infirmary Management System is a Desktop Application
                        devloped using JavaFx, Java, MySQL and FXML for UI Design.  This application is
                        developed to run the College Infirmary smoothly with the use of Technology in
                        this Modern Era. The Application helps to digitalize the current system of
                        maintaining Patient and Medicine records in Register." wrapText="true">
67                        <font>
68                            <Font name="Roboto Condensed Regular" size="15.0" />
69                        </font>
70                    </Label>
71                    <Label layoutX="363.0" prefHeight="31.0" prefWidth="73.0" text="About">
72                        <font>
73                            <Font name="Cambria Bold" size="25.0" />
74                        </font>
75                    </Label>
76                    <Separator layoutX="195.0" layoutY="38.0" prefHeight="0.0" prefWidth="409.0" />
77                    <Label alignment="TOP_LEFT" layoutX="112.0" layoutY="149.0" prefHeight="30.0"
                        prefWidth="604.0" text="The Main Features of the Application are:" wrapText="true">
78                        <font>
79                            <Font name="Roboto Condensed Regular" size="15.0" />
80                        </font>
81                    </Label>
82                    <Label alignment="TOP_LEFT" layoutX="130.0" layoutY="173.0" prefHeight="22.0"
                        prefWidth="346.0" text="1. Enter Patent Details through a User Interactive Form"
                        wrapText="true">
83                        <font>
84                            <Font name="Roboto Condensed Regular" size="15.0" />
85                        </font>
86                    </Label>
87                    <Label alignment="TOP_LEFT" layoutX="130.0" layoutY="195.0" prefHeight="22.0"
                        prefWidth="605.0" text="2. View, Sort, Search By (Filter), Resize Columns, Edit
                        Column Positions in Data Display in Table " wrapText="true">
88                        <font>
89                            <Font name="Roboto Condensed Regular" size="15.0" />
90                        </font>
91                    </Label>
92                    <Label alignment="TOP_LEFT" layoutX="130.0" layoutY="218.0" prefHeight="22.0"
                        prefWidth="282.0" text="3. Insert and Update New Medicine &amp; Injections "
                        wrapText="true">
93                        <font>
94                            <Font name="Roboto Condensed Regular" size="15.0" />
95                        </font>
96                    </Label>
97                    <Label alignment="TOP_LEFT" layoutX="130.0" layoutY="240.0" prefHeight="22.0"
                        prefWidth="410.0" text="4. Subtract (Update) Medicines &amp; Injections From Stock
```

```xml
                    if Prescribed" wrapText="true">
                        <font>
                            <Font name="Roboto Condensed Regular" size="15.0" />
                        </font>
                    </Label>
                    <Label alignment="TOP_LEFT" layoutX="130.0" layoutY="262.0" prefHeight="22.0"
                    prefWidth="437.0" text="5. Show only Available Medicines in Prescribe Combo Box"
                    wrapText="true">
                        <font>
                            <Font name="Roboto Condensed Regular" size="15.0" />
                        </font>
                    </Label>
                    <Label alignment="TOP_LEFT" layoutX="130.0" layoutY="284.0" prefHeight="22.0"
                    prefWidth="437.0" text="6. Get Automatic Date &amp; Time while Filling up New
                    Patient Entry Form " wrapText="true">
                        <font>
                            <Font name="Roboto Condensed Regular" size="15.0" />
                        </font>
                    </Label>
                    <Label alignment="TOP_LEFT" layoutX="20.0" layoutY="344.0" prefHeight="22.0"
                    prefWidth="184.0" text="© Divyash Chhetri  (02200174)" wrapText="true">
                        <font>
                            <Font name="Roboto Condensed Regular" size="15.0" />
                        </font>
                    </Label>
                    </children>
                </AnchorPane>
            </left>
    </BorderPane>
```