CSE1007 - Java Programming

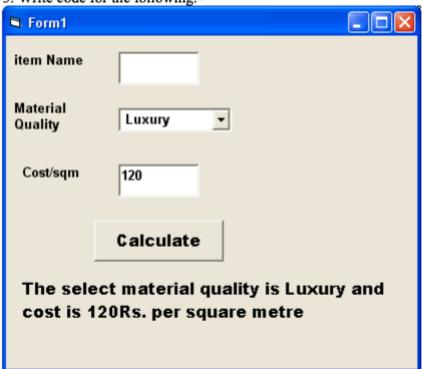
Lab Assessment 5

JavaFX and JDBC

SANJIT KUMAR 18BCE0715 PROF ANITHA A LAB - L5 + L6

Question/Task

Write code for the following:-



- i) The "cost" text field should contain only non-negative value.
- ii) The jComboBox1 must contain Economic, Business and Luxury when the form window is opened.
- iii) The "material quality" should be set as "Luxury" by default.
- iv) When "calculate" button is clicked, the cost should be calculated & displayed as per the following criteria and message should be displayed on jLabel4 as given on the form and information to be stored in the database.

Material COST(Rs./sqm)
Economic 50
Business 80
Luxury 120

(v) create a report as what material was sold out per month to check the movement of goods

Source Code

Java Main.fxml

```
<?xml version="1.0" encoding="UTF-8"?>

<?import javafx.scene.control.Button?>
<?import javafx.scene.control.ComboBox?>
<?import javafx.scene.control.Label?>
<?import javafx.scene.control.TextField?>
<?import javafx.scene.layout.AnchorPane?>
<?import javafx.scene.text.Font?>
```

```
<AnchorPane maxHeight="-Infinity" maxWidth="-Infinity"</pre>
minHeight="-Infinity" minWidth="-Infinity" prefHeight="390.0"
prefWidth="420.0" style="-fx-background-color:
#FFEFD5#FFEFD5;" xmlns="http://javafx.com/javafx/16"
xmlns:fx="http://javafx.com/fxml/1"
fx:controller="controllers.mainController">
   <children>
      <Label fx:id="itemName" layoutX="32.0" layoutY="42.0"</pre>
prefHeight="17.0" prefWidth="90.0" text="item name" />
      <TextField fx:id="itemNameField" layoutX="134.0"</pre>
layoutY="38.0" prefHeight="43.0" prefWidth="96.0" />
      <Label fx:id="itemName1" layoutX="35.0" layoutY="119.0"</pre>
prefHeight="17.0" prefWidth="90.0" text="Material Quality" />
      <ComboBox fx:id="materialQualityField" editable="true"</pre>
layoutX="134.0" layoutY="120.0" prefHeight="32.0"
prefWidth="115.0" />
      <Label fx:id="itemName11" layoutX="35.0"</pre>
layoutY="213.0" prefHeight="17.0" prefWidth="90.0"
text="cost/sqkm" />
```

```
<TextField fx:id="costField" layoutX="134.0"</pre>
layoutY="200.0" prefHeight="43.0" prefWidth="96.0" />
      <Button fx:id="btnCalc" layoutX="114.0" layoutY="271.0"</pre>
mnemonicParsing="false" onMouseClicked="#handleButtonAction"
prefHeight="49.0" prefWidth="136.0" text="Calculate" />
      <Label fx:id="lblResult" alignment="CENTER"</pre>
layoutX="60.0" layoutY="337.0" prefHeight="23.0"
prefWidth="275.0" textFill="#ff6354">
         <font>
            <Font name="Segoe UI" size="10.0" />
         </font>
      </Label>
   </children>
 /AnchorPane>
Main.java
package home;
import javafx.application.Application;
import javafx.event.EventHandler;
```

```
import javafx.application.Application;
import javafx.event.EventHandler;
import javafx.fxml.FXMLLoader;
import javafx.scene.Parent;
import javafx.scene.Scene;
import javafx.scene.input.MouseEvent;
import javafx.stage.Stage;
import javafx.stage.StageStyle;

public class Main extends Application
```

```
private double xOffset = 0;
```

```
private double yOffset = 0;
    @Override
    public void start(Stage stage) throws Exception {
        Parent root =
FXMLLoader.load(getClass().getResource("/fxml/main.fxml"));
        stage.initStyle(StageStyle.DECORATED);
        stage.setMaximized(false);
        root.setOnMousePressed(new EventHandler<MouseEvent>(
            @Override
            public void handle(MouseEvent event)
                xOffset = event.getSceneX();
                yOffset = event.getSceneY();
        root.setOnMouseDragged(new EventHandler<MouseEvent>()
            @Override
            public void handle(MouseEvent event) {
                stage.setX(event.getScreenX() - xOffset);
                stage.setY(event.getScreenY() - yOffset);
        stage.setTitle("Form1");
        Scene scene = new Scene(root);
        stage.setScene(scene);
        stage.show()
```

```
}
```

```
public static void main(String[] args) {
        launch(args);
}
```

MainController.java

```
package controllers;
```

```
import java.io.IOException;
import java.net.URL;
import java.sql.Connection;
import java.sql.PreparedStatement;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.ResourceBundle;
import javafx.fxml.FXML;
import javafx.fxml.FXMLLoader;
import javafx.fxml.Initializable;
import javafx.scene.Node;
import javafx.scene.Scene;
import javafx.scene.control.Button;
import javafx.scene.control.ComboBox;
import javafx.scene.control.Label;
import javafx.scene.control.TextField;
import javafx.scene.input.MouseEvent;
import javafx.scene.paint.Color;
```

```
import javafx.stage.Stage;
import utils.ConnectionUtil;
public class mainController implements Initializable
    @FXML
    private Label lblResult;
    @FXML
    private ComboBox<String> materialQualityField;
    @FXML
    private TextField itemNameField;
    @FXML
    private TextField costField
    @FXML
    private Button btnCalc
    Connection con = null;
    PreparedStatement preparedStatement = null;
    ResultSet resultSet = null;
    int cost;
    @FXML
    public void handleButtonAction(MouseEvent event)
        if (event.getSource() == btnCalc) {
            System.out.println("hiihihii");
                try {
                    System.out.println("calc cost")
```

```
String str="select * from labda5 where
Quality='"+(qua)+"'";
                    rs=stmt.executeQuery(str);
                    while (rs.next()) {
                        String q = rs.getString("Quality");
                        cost = rs.getInt("cost");
                    jTextField3.setText(""+cost);
                    jLabel4.setText("The selected material
quality is "+qua+" and the cost is Rs. "+cost+" per square
                } catch (Exception ex) {
                    System.err.println(ex.getMessage());
   @Override
   public void initialize(URL url, ResourceBundle rb)
       // TODO
       materialQualityField.getItems().addAll("Economic",
Business","Luxury");
materialQualityField.getSelectionModel().select("Luxury");
   public mainController() -
       con = ConnectionUtil.conDB()
```

```
private void setLblError(Color color, String text) {
    lblResult.setTextFill(color);
    lblResult.setText(text);
    System.out.println(text);
}
```

Output Screenshots

