Lab Assignment 3

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SP24-BSE-015

Code

package com.example.gui\_2;  
  
import javafx.application.Application;  
import javafx.fxml.FXMLLoader;  
import javafx.geometry.Insets;  
import javafx.scene.Scene;  
import javafx.scene.control.\*;  
import javafx.scene.control.Label;  
import javafx.scene.control.TextField;  
import javafx.scene.layout.\*;  
import javafx.stage.FileChooser;  
import javafx.stage.Stage;  
import javafx.scene.control.Button;  
import javafx.scene.image.Image;  
import javafx.scene.image.ImageView;  
//import java.awt.\*;  
//import java.awt.Button;  
//import java.awt.image.ImageObserver;  
//import java.awt.image.ImageProducer;  
import java.io.BufferedWriter;  
import java.io.FileWriter;  
import java.io.IOException;  
import java.io.File;  
import java.util.ArrayList;  
  
 public class HelloApplication extends Application {  
 @Override  
 public void start(Stage stage) throws IOException {  
 GridPane grid = new GridPane();  
 grid.setVgap(15);  
 grid.setHgap(10);  
 grid.setStyle("-fx-background-color: #f0f8ff; -fx-border-color: #b0c4de; -fx-border-width: 2px; -fx-border-radius: 10px;");  
 Scene scene = new Scene(grid,650, 650); //scene  
  
  
  
 //Name  
 TextField nameField = new TextField();  
 Label nameLabel = new Label("FullName");  
 nameLabel.setStyle("-fx-font-weight: bold; -fx-font-size: 14px;");  
 nameField.setStyle("-fx-border-color: #87ceeb; -fx-border-radius: 5px;");  
 HBox nameBox = new HBox();  
 nameBox.setSpacing(15);  
 nameBox.setPadding(new Insets(10));  
 nameBox.getChildren().addAll(nameLabel,nameField);  
 grid.add(nameBox,0,1,1,1);  
  
  
 TextField Id = new TextField();  
 Label IdLabel = new Label("ID");  
 IdLabel.setStyle("-fx-font-weight: bold; -fx-font-size: 14px;");  
 Id.setStyle("-fx-border-color: #87ceeb; -fx-border-radius: 5px;");  
 HBox IdBox = new HBox();  
 IdBox.setSpacing(55);  
 IdBox.setPadding(new Insets(10));  
 IdBox.getChildren().addAll(IdLabel,Id);  
 grid.add(IdBox,0,2,1,1);  
  
 RadioButton male=new RadioButton("Male");  
 RadioButton female=new RadioButton("Female");  
 ToggleGroup group=new ToggleGroup();  
 male.setToggleGroup(group);  
 female.setToggleGroup(group);  
 Label GenderLabel = new Label("Gender");  
 GenderLabel.setStyle("-fx-font-weight: bold; -fx-font-size: 14px;");  
 HBox genderBox = new HBox();  
 genderBox.setSpacing(25);  
 genderBox.setPadding(new Insets(10));  
 genderBox.getChildren().addAll(GenderLabel,female,male);  
 grid.add(genderBox,0,3);  
  
  
 ComboBox<String> provinceComboBox = new ComboBox<>();  
 provinceComboBox.getItems().addAll("punjab","Sindh","KPK","Balochistan");  
 Label provinceLabel = new Label("Province");  
 provinceLabel.setStyle("-fx-font-weight: bold; -fx-font-size: 14px;");  
 provinceComboBox.setStyle("-fx-border-color: #87ceeb; -fx-border-radius: 5px;");  
 HBox ProvinceBox = new HBox();  
 ProvinceBox.setSpacing(25);  
 ProvinceBox.setPadding(new Insets(10));  
 ProvinceBox.getChildren().addAll(provinceLabel,provinceComboBox);  
 grid.add(ProvinceBox,0,4);  
  
  
 DatePicker datePicker = new DatePicker();  
 Label dateLabel = new Label("DOB");  
 dateLabel.setStyle("-fx-font-weight: bold; -fx-font-size: 14px;");  
 datePicker.setStyle("-fx-border-color: #87ceeb; -fx-border-radius: 5px;");  
 HBox dateBox = new HBox();  
 dateBox.setSpacing(40);  
 dateBox.setPadding(new Insets(10));  
 dateBox.getChildren().addAll(dateLabel,datePicker);  
 grid.add(dateBox,0,5);  
  
  
 Button NewButton = new Button("New");  
 NewButton.setOnAction(e ->{  
 try{  
 File newFile=new File("Data");  
 if(!newFile.exists()){  
 newFile.createNewFile();}}  
 catch(IOException E){  
 E.printStackTrace();  
 }  
  
 try (BufferedWriter writer = new BufferedWriter(new FileWriter("Data"))) {  
 writer.write("Name: " + nameField.getText()+ "\n");  
 writer.write("ID: " + Id.getText() + "\n");  
 writer.write("Gender: " + ((RadioButton) group.getSelectedToggle()).getText() + "\n");  
 writer.write("Province: " + provinceComboBox.getValue()+ "\n");  
 writer.write("DOB: " + datePicker.getValue().toString()+ "\n");}  
 catch (IOException E){  
 E.printStackTrace();  
 }  
  
 } );  
 HBox buttonBox = new HBox();  
 buttonBox.setSpacing(10);  
 buttonBox.setPadding(new Insets(10));  
 grid.add(NewButton,8,1);  
  
 Button DeleteButton = new Button("Delete");  
 HBox buttonBox2 = new HBox();  
 buttonBox2.setSpacing(10);  
 buttonBox2.setPadding(new Insets(10));  
 grid.add(DeleteButton,8,2);  
  
 Button RestoreButton = new Button("Restore");  
 HBox buttonBox3 = new HBox();  
 buttonBox3.setSpacing(10);  
 buttonBox3.setPadding(new Insets(10));  
 grid.add(RestoreButton,8,3);  
  
 Button FindButton = new Button("Find Prev");  
 HBox buttonBox4 = new HBox();  
 buttonBox4.setSpacing(10);  
 buttonBox4.setPadding(new Insets(10));  
 grid.add(FindButton,8,4);  
  
 Button NextButton = new Button("Find Next");  
 HBox buttonBox5 = new HBox();  
 buttonBox5.setSpacing(10);  
 buttonBox5.setPadding(new Insets(10));  
 grid.add(NextButton,8,5);  
  
 Button CriteriaButton = new Button("Criteria");  
 HBox buttonBox6 = new HBox();  
 buttonBox6.setSpacing(10);  
 buttonBox6.setPadding(new Insets(10));  
 grid.add(CriteriaButton,8,6);  
  
 Button CloseButton = new Button("Close");  
 HBox buttonBox7 = new HBox();  
 buttonBox7.setSpacing(10);  
 buttonBox7.setPadding(new Insets(10));  
 grid.add(CloseButton,8,7);  
  
  
  
 stage.setTitle("Hello!");  
 stage.setScene(scene);  
 stage.show();  
 }  
  
 public static void main(String[] args) {  
 *launch*();  
 }  
 }

output

A screenshot of a computer

Description automatically generated

Data Stored in file

Name: Asma Aslam  
ID: 12345  
Gender: Female  
Province: punjab  
DOB: 2024-11-06