API Programming Facebook Login CA – L00145232

For the continuous assessment, I was given a Facebook login page to create with the use of javafx. There is two parts of this practical:

1. Creating the GUI of the home page of the login with a event handler on the Sign Up button.
2. Create an entire new scene for the sign-up page.

PART 1:

A screenshot of a cell phone

Description automatically generated

For the home page, there is three panes:

1. The Bottom Pane which contains the Facebook logo image.
2. The Left Pane which contains two Labels, a text field and a password field.
3. The Right Pane which contains The Log in Button and the Sign-Up button (which is the button that goes to the new scene).

In the process of creating a new scene what was needed was :

1. A Stage variable
2. A Scene variable
3. A BorderPane variable

The Stage variable of the sign-up page had to be equalled to the primary stage. A new image which contains the same Facebook logo image had to be created as it couldn’t be linked from the home page.

PART 2:

A screenshot of a cell phone

Description automatically generated

For the Sign up page, there is only two panes which contain of:

1. The left pane, which is where the Facebook logo is at.
2. The right pane, which contains a label , three text fields and a sign up button.

In conclusion, it was honestly quite a fun continuous assessment to do and I learnt more and more as the CA went on.

I am going to copy and paste my java code onto this word document just in case if there is any problems with the .java file.

-----JAVA QUESTION-----

/\*  
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CA   
\*/  
import javafx.application.Application;  
import javafx.stage.Stage;  
import javafx.scene.Scene;  
import javafx.scene.layout.\*;  
import javafx.scene.control.\*;  
import javafx.scene.paint.Color;  
import javafx.geometry.\*;  
import javafx.scene.text.\*;  
import javafx.scene.image.ImageView;  
import javafx.scene.shape.\*;  
import java.io.FileInputStream;  
import javafx.scene.image.\*;  
// PetrolPrice IS-A Application ==> Inheritance  
public class FaceBook extends Application{  
   
 private Font buttonFont,labelFont;  
 private Stage window;  
 private Scene scene,signUp;  
 private BorderPane sceneLayout,sceneLayout2;  
 private GridPane topPane;  
 private Button b1,b2;  
 @Override  
 public void start(Stage primaryStage){  
 //font and design  
 labelFont=Font.font("Sans Serif",FontWeight.BOLD,18);  
 buttonFont=Font.font("Sans Serif",FontWeight.BOLD,18);  
   
 //initializing window  
 window=primaryStage;  
   
 //image info   
 ImageView imageView = new ImageView("facebook.png");  
 HBox hbox = new HBox(imageView);  
 ImageView imageView2 = new ImageView("facebook.png");  
 HBox hbox2 = new HBox(imageView2);  
 imageView2.setFitHeight(170);  
 //buttons recognition  
 b2=new Button("Sign Up");  
 b2.setOnAction(event->window.setScene(signUp));  
 VBox rightPaneHome= new VBox(0);  
 b1=new Button("Log in");  
 b1.setOnAction((event)->{System.out.println("LOG IN BUTTON CLICKED");});   
 b1.setPrefWidth(100);  
 b2.setPrefWidth(100);  
 b1.setStyle("-fx-border-color: #000000;-fx-background-color: #f0f8ff;");  
 b2.setStyle("-fx-border-color: #000000;-fx-background-color: #f0f8ff;");  
 rightPaneHome.getChildren().addAll(b1,b2);  
   
 //sign up page  
 sceneLayout2 = new BorderPane();  
 signUp=new Scene(sceneLayout2);  
 window.setScene(signUp);  
 sceneLayout2.setLeft(imageView2);   
 sceneLayout2.setRight(signUpInfo());  
 window.setTitle("SIGN UP FACEBOOK");  
 window.show();  
   
 //home page  
   
 sceneLayout = new BorderPane();  
 scene=new Scene(sceneLayout);  
 sceneLayout.setLeft(leftPaneHome());   
 sceneLayout.setRight(rightPaneHome);  
 sceneLayout.setBottom(imageView);  
 primaryStage.setScene(scene);  
   
 primaryStage.setTitle("LOGIN ");  
 primaryStage.show();  
   
 }   
 private GridPane leftPaneHome()  
 {  
 GridPane leftPane= new GridPane();  
 Label email = new Label("Email:");  
 leftPane.add(email, 0, 1);  
   
   
 TextField userTextField = new TextField();  
 leftPane.add(userTextField, 1, 1);  
   
 Label pw = new Label("Password:");  
 leftPane.add(pw, 0, 2);  
   
 PasswordField pwBox = new PasswordField();  
 leftPane.add(pwBox, 1, 2);  
 email.setPrefWidth(110);  
 pw.setPrefWidth(110);  
 return leftPane;  
 }  
   
 private GridPane signUpInfo()  
 {  
 //initializing  
 GridPane signUpInfo= new GridPane();  
 Label l1=new Label("Sign Up");  
 TextField t1 = new TextField("Enter First Name");  
 TextField t2 = new TextField("Enter Surname");  
 TextField t3 = new TextField("Enter Email Address");  
 TextField t4 = new TextField("Enter Password");  
 Button b1= new Button("Sign Up");  
   
 //grid layout  
 signUpInfo.add(l1, 2, 0);  
 signUpInfo.add(t1, 2, 1);  
 signUpInfo.add(t2, 2, 2);  
 signUpInfo.add(t3, 2, 3);  
 signUpInfo.add(t4, 2, 4);  
 signUpInfo.add(b1,2,5);  
   
 //styling  
 b1.setPrefWidth(150);  
 b1.setStyle("-fx-border-color: #000000;-fx-background-color: #f0f8ff;");  
 l1.setFont(labelFont);  
 b1.setFont(buttonFont);  
 l1.setAlignment(Pos.CENTER);  
   
 return signUpInfo;  
 }  
   
   
 public static void main(String[] args){  
 launch(args);  
 }  
   
   
}