SIMPLE CHAT MODEL

Program:

import javafx.application.Application;

import static javafx.application.Application.launch;

import javafx.scene.Scene;

import javafx.scene.control.Button;

import javafx.scene.control.Label;

import javafx.scene.control.ScrollPane;

import javafx.scene.control.TextField;

import javafx.scene.layout.AnchorPane;

import javafx.scene.layout.Region;

import javafx.scene.layout.VBox;

import javafx.scene.paint.Color;

import javafx.stage.Stage;

public class ChatApp extends Application {

private ScrollPane scrollPane1, scrollPane2;

private VBox dialogBox1, dialogBox2;

private TextField userInput1, userInput2;

private Button sendButton1, inviteButton, sendButton2;

private Scene scene1, scene2;

public static void main(String[] args) {

launch(args);

}

@Override

public void start(Stage st1) {

scrollPane1 = new ScrollPane();

dialogBox1 = new VBox();

scrollPane1.setContent(dialogBox1);

userInput1 = new TextField();

sendButton1 = new Button("send");

inviteButton = new Button("invite friend");

AnchorPane mainlayout1 = new AnchorPane();

mainlayout1.getChildren().addAll(scrollPane1, userInput1, sendButton1, inviteButton);

scene1 = new Scene(mainlayout1);

st1.setScene(scene1);

st1.setTitle("Friend 1");

st1.show();

st1.setResizable(false);

st1.setMinHeight(600.0);

st1.setMinWidth(400.0);

mainlayout1.setPrefSize(400.0, 600.0);

scrollPane1.setPrefSize(385, 535);

scrollPane1.setHbarPolicy(ScrollPane.ScrollBarPolicy.NEVER);

scrollPane1.setVbarPolicy(ScrollPane.ScrollBarPolicy.ALWAYS);

scrollPane1.setVvalue(1.0);

scrollPane1.setFitToWidth(true);

dialogBox1.setPrefHeight(Region.USE\_COMPUTED\_SIZE);

userInput1.setPrefWidth(325.0);

sendButton1.setPrefWidth(55.0);

inviteButton.setPrefWidth(100.0);

AnchorPane.setTopAnchor(scrollPane1, 1.0);

AnchorPane.setTopAnchor(inviteButton, 1.0);

AnchorPane.setLeftAnchor(inviteButton, 270.0);

AnchorPane.setBottomAnchor(sendButton1, 1.0);

AnchorPane.setRightAnchor(sendButton1, 1.0);

AnchorPane.setLeftAnchor(userInput1, 1.0);

AnchorPane.setBottomAnchor(userInput1, 1.0);

Stage st2 = new Stage();

scrollPane2 = new ScrollPane();

dialogBox2 = new VBox();

scrollPane2.setContent(dialogBox2);

sendButton2 = new Button("send");

userInput2 = new TextField();

AnchorPane mainlayout2 = new AnchorPane();

mainlayout2.getChildren().addAll(scrollPane2, userInput2, sendButton2);

scene2 = new Scene(mainlayout2);

st2.setScene(scene2);

st2.setTitle("Friend2");

st2.setResizable(false);

st2.setMinHeight(600.0);

st2.setMinWidth(400.0);

mainlayout2.setPrefSize(300.0, 400.0);

scrollPane2.setPrefSize(385, 535);

scrollPane2.setHbarPolicy(ScrollPane.ScrollBarPolicy.NEVER);

scrollPane2.setVbarPolicy(ScrollPane.ScrollBarPolicy.ALWAYS);

scrollPane2.setVvalue(1.0);

scrollPane2.setFitToWidth(true);

dialogBox2.setPrefHeight(Region.USE\_COMPUTED\_SIZE);

userInput2.setPrefWidth(325.0);

sendButton2.setPrefWidth(55.0);

AnchorPane.setTopAnchor(scrollPane1, 1.0);

AnchorPane.setBottomAnchor(sendButton2, 1.0);

AnchorPane.setRightAnchor(sendButton2, 1.0);

AnchorPane.setLeftAnchor(userInput2, 1.0);

AnchorPane.setBottomAnchor(userInput2, 1.0);

//EVENT HANDLING

sendButton1.setOnMouseClicked((event) -> {

dialogBox1.getChildren().add(getDialogLabel(userInput1.getText()));

dialogBox2.getChildren().add(getDialogLabel("Friend 1 : " + userInput1.getText()));

userInput1.clear();

});

sendButton2.setOnMouseClicked((event) -> {

dialogBox2.getChildren().add(getDialogLabel(userInput2.getText()));

dialogBox1.getChildren().add(getDialogLabel("Friend 2 : " + userInput2.getText()));

userInput2.clear();

});

userInput1.setOnAction((event) -> {

dialogBox1.getChildren().add(getDialogLabel(userInput1.getText()));

dialogBox2.getChildren().add(getDialogLabel("Friend 1 : " + userInput1.getText()));

userInput1.clear();

});

userInput2.setOnAction((event) -> {

dialogBox2.getChildren().add(getDialogLabel(userInput2.getText()));

dialogBox1.getChildren().add(getDialogLabel("Friend 2 : " + userInput2.getText()));

userInput2.clear();

});

inviteButton.setOnAction(e -> {

st2.show();

mainlayout1.getChildren().remove(inviteButton);

});

//STYLING

sendButton1.setStyle("-fx-background-color: #396182; -fx-text-fill: black;");

sendButton2.setStyle("-fx-background-color: #396182; -fx-text-fill: black;");

inviteButton.setStyle("-fx-background-color:green; -fx-text-fill: black;");

scrollPane1.setStyle("-fx-background: transparent; -fx-background-color: #c8deb8; -fx-padding: 0; -fx-background-insets: 0;");

scrollPane2.setStyle("-fx-background: transparent; -fx-background-color: #c8deb8; -fx-padding: 0; -fx-background-insets: 0;");

mainlayout1.setStyle("-fx-background-color:#c8deb8; -fx-text-fill: black;");

mainlayout2.setStyle("-fx-background-color:#c8deb8; -fx-text-fill: black;");

}

private Label getDialogLabel(String text) {

Label textToAdd = new Label(text);

textToAdd.setTextFill(Color.web("black", 1.0));

textToAdd.setStyle("-fx-padding: 4;"

+ "-fx-border-style: solid inside;"

+ "-fx-border-width: 1;"

+ "-fx-border-insets: 1;"

+ "-fx-border-radius: 8;"

+ "-fx-font-weight:normal;"

+ "-fx-border-color: grey;");

textToAdd.setWrapText(true);

return textToAdd;

}

}

OUTPUT:

