

Міністерство освіти, науки, молоді та спорту України
Національний університет «Львівська політехніка»

Кафедра СШ

Лабораторна робота №15

Виконав:
ст. групи КН-107
Залуський М.А
Прийняв:
асистент кафедри СШ
Швороб І.Б.

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```
import
javafx.application.Applicat
ion;
```

```
import javafx.beans.property.SimpleStringProperty;
import javafx.collections.FXCollections;
import javafx.collections.ObservableList;
import javafx.event.ActionEvent;
import javafx.geometry.Insets;
import javafx.scene.Group;
import javafx.scene.Scene;
import javafx.scene.control.Button;
import javafx.scene.control.Label;
import javafx.scene.control.TableColumn;
import javafx.scene.control.TableView;
import javafx.scene.control.TextField;
import javafx.scene.control.cell.PropertyValueFactory;
import javafx.scene.layout.HBox;
import javafx.scene.layout.VBox;
import javafx.scene.text.Font;
import javafx.stage.Stage;
```

```
public class Controller extends Application {

    private final TableView<TradePoint> table = new
    TableView<>();
    private final ObservableList<TradePoint> data =
        FXCollections.observableArrayList(
            new TradePoint( "Joe",
"1SalmanelaStreet","vdsvsdv", "Cook", "Tuesday",
"17:00"),
            new TradePoint( "Joe",
"2SalmanelaStreet","880553535", "Cook", "Tuesday",
"11:00"),
            new TradePoint( "Joe",
"3SalmanelaStreet","d880553535", "Cook", "Tuesday",
"17:00"),
            new TradePoint( "Joe",
"4SalmanelaStreet","fg880553535", "Cook", "Tuesday",
"14:00"),
            new TradePoint( "Joe",
"5SalmanelaStreet","880553535", "Cook", "Tuesday",
"17:00"));
    final HBox hb = new HBox();
```

```

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

@Override
public void start(Stage stage) {
    Scene scene = new Scene(new Group());
    stage.setTitle("Trade Points");
    stage.setWidth(650);
    stage.setHeight(550);

    final Label label = new Label("Trade Point");
    label.setFont(new Font("Arial", 20));

    table.setEditable(true);

    TableColumn nameCol = new TableColumn("Name");
    nameCol.setMinWidth(100);
    nameCol.setCellValueFactory(
        new PropertyValueFactory<>("name"));

    TableColumn adressCol = new
TableColumn("Adress");
    adressCol.setMinWidth(100);
    adressCol.setCellValueFactory(
        new PropertyValueFactory<>("adress"));

    TableColumn numberCol = new
TableColumn("Number");
    numberCol.setMinWidth(100);
    numberCol.setCellValueFactory(
        new PropertyValueFactory<>("number"));

    TableColumn specializationCol = new
TableColumn("Specialization");
    specializationCol.setMinWidth(100);
    specializationCol.setCellValueFactory(
        new
PropertyValueFactory<>("specialization"));

```

```

TableColumn dayCol = new TableColumn("Day");
dayCol.setMinWidth(100);
dayCol.setCellValueFactory(
    new PropertyValueFactory<>("day"));

TableColumn timeCol = new TableColumn("Time");
timeCol.setMinWidth(100);
timeCol.setCellValueFactory(
    new PropertyValueFactory<>("time"));

table.setItems(data);
table.getColumns().addAll(nameCol, adressCol,
numberCol, specializationCol, dayCol, timeCol);

final TextField addName = new TextField();
addName.setPromptText("Name");
addName.setMaxWidth(nameCol.getPrefWidth());

final TextField addAddress = new TextField();
addAddress.setMaxWidth(adressCol.getPrefWidth());
addAddress.setPromptText("Address");

final TextField addNumbers = new TextField();
addNumbers.setMaxWidth(numberCol.getPrefWidth());
addNumbers.setPromptText("Number");

final TextField addSpecialization = new
TextField();

addSpecialization.setMaxWidth(specializationCol.getPrefWi
dth());

addSpecialization.setPromptText("Specialization");

final TextField addDay = new TextField();
addDay.setMaxWidth(dayCol.getPrefWidth());
addDay.setPromptText("Day");

```

```

        final TextField addTime = new TextField();
        addTime.setMaxWidth(timeCol.getPrefWidth());
        addTime.setPromptText("Time");

        final Button addButton = new Button("Add");
        addButton.setOnAction((ActionEvent e) -> {
            data.add(new TradePoint(
                addName.getText(),
                addAddress.getText(),
                addNumbers.getText(),
                addSpecialization.getText(),
                addDay.getText(),
                addTime.getText()));
            addName.clear();
            addAddress.clear();
            addNumbers.clear();
            addSpecialization.clear();
            addDay.clear();
            addTime.clear();
        });

        hb.getChildren().addAll(addName, addAddress,
            addNumbers, addSpecialization, addDay, addTime,
            addButton);
        hb.setSpacing(10);

        final VBox vbox = new VBox();
        vbox.setSpacing(10);
        vbox.setPadding(new Insets(10, 0, 0, 10));
        vbox.getChildren().addAll(label, table, hb);

        ((Group)
            scene.getRoot()).getChildren().addAll(vbox);

        stage.setScene(scene);
        stage.show();
    }

    public static class TradePoint{
        private final SimpleStringProperty name;
        private final SimpleStringProperty address;
    }

```

```

        private final SimpleStringProperty number;
        private final SimpleStringProperty
specialization;
        private final SimpleStringProperty day;
        private final SimpleStringProperty time;
        private TradePoint(String name1, String adress1,
String number1, String specialization1, String day1,
String time1){
            this.name = new SimpleStringProperty(name1);
            this.adress = new SimpleStringProperty(adress1);
            this.number = new SimpleStringProperty(number1);
            this.specialization = new
SimpleStringProperty(specialization1);
            this.day = new SimpleStringProperty(day1);
            this.time = new SimpleStringProperty(time1);
        }

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

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

        public String getAddress() {
            return adress.get();
        }

        public void setAddress(String fName) {
            adress.set(fName);
        }

        public String getNumber() {
            return number.get();
        }

        public void setNumber(String fName) {
            number.set(fName);
        }

```

```
public String getSpecialization() {  
    return specialization.get();  
}  
  
public void setSpecialization(String fName) {  
    specialization.set(fName);  
}  
  
public String getDay() {  
    return day.get();  
}  
  
public void setDay(String fName) {  
    day.set(fName);  
}  
  
public String getTime() {  
    return time.get();  
}  
  
public void setTime(String fName) {  
    time.set(fName);  
}  
}  
}
```

