package sample;

import javafx.beans.binding.Bindings;

import javafx.beans.binding.BooleanBinding;

import javafx.beans.binding.When;

import javafx.beans.property.BooleanProperty;

import javafx.beans.property.ReadOnlyObjectProperty;

import javafx.collections.FXCollections;

import javafx.collections.ObservableList;

import javafx.event.ActionEvent;

import javafx.event.Event;

import javafx.event.EventHandler;

import javafx.fxml.FXML;

import javafx.fxml.Initializable;

import javafx.scene.control.Button;

import javafx.scene.control.ListView;

import javafx.scene.control.TextField;

import javafx.scene.input.InputMethodEvent;

import javafx.scene.input.KeyEvent;

import javafx.stage.Stage;

import java.net.URL;

import java.util.ResourceBundle;

public class Controller implements Initializable {

@FXML

private Button btnUpdate;

@FXML

private Button btnAdd;

@FXML

private Button btnEnde;

@FXML

private TextField txtId;

@FXML

private TextField txtModell;

@FXML

private TextField txtHersteller;

@FXML

private TextField txtLeistung;

@FXML

private TextField txtHubraum;

@FXML

private TextField txtMaxtankinhalt;

@FXML

private TextField txtIsttankinhalt;

@FXML

private ListView<Rennwagen> listview;

private ObservableList<Rennwagen> rennwagenliste = FXCollections.*observableArrayList*();

@Override // This method is called by the FXMLLoader when initialization is complete

public void initialize(URL fxmlFileLocation, ResourceBundle resources) {

this.ladeStartObjekte();

this.initDetails();

this.listview.setItems(this.rennwagenliste);

ReadOnlyObjectProperty listViewSelection = this.listview.getSelectionModel().selectedItemProperty();

BooleanBinding fieldsIncomplete = this.txtModell.textProperty().isEmpty()

.or(this.txtHersteller.textProperty().isEmpty())

.or(this.txtLeistung.textProperty().isEmpty())

.or(this.txtHubraum.textProperty().isEmpty())

.or(this.txtMaxtankinhalt.textProperty().isEmpty())

.or(this.txtIsttankinhalt.textProperty().isEmpty());

this.btnAdd.disableProperty().bind(listViewSelection.isNotNull().or(this.txtModell.textProperty().isEmpty()));

this.btnUpdate.disableProperty().bind(listViewSelection.isNull().or(fieldsIncomplete));

}

@FXML

public void handleButtonAdd(ActionEvent actionEvent) {

this.addRennwagen();

}

@FXML

public void handleButtonUpdate(ActionEvent actionEvent) {

this.updateRennwagen();

}

@FXML

public void handleButtonEnde(ActionEvent actionEvent) {

Stage stage = (Stage) this.btnEnde.getScene().getWindow();

stage.close();

}

@FXML

public void handleItemSelected(Event event) {

this.setDetails(this.listview.getSelectionModel().getSelectedItem());

}

private void ladeStartObjekte() {

Rennwagen rennwagen\_01 = new Rennwagen("Carrera GT", "Porsche");

Rennwagen rennwagen\_02 = new Rennwagen("GP", "Ferrari");

Rennwagen rennwagen\_03 = new Rennwagen("B191", "Benetton");

this.rennwagenliste.add(rennwagen\_01);

this.rennwagenliste.add(rennwagen\_02);

this.rennwagenliste.add(rennwagen\_03);

}

private void getDetails(Rennwagen rennwagen) {

*/\*\**

*\* Die ID eines Rennwagen\_v4.Rennwagen wird nicht verandert*

*\*/*

rennwagen.setModell(this.txtModell.getText());

rennwagen.setHersteller(this.txtHersteller.getText());

rennwagen.setLeistung(Integer.*parseInt*(this.txtLeistung.getText()));

rennwagen.setHubraum(Integer.*parseInt*(this.txtHubraum.getText()));

rennwagen.setMaxtankinhalt(Float.*parseFloat*(this.txtMaxtankinhalt.getText()));

rennwagen.setIsttankinhalt(Float.*parseFloat*(this.txtIsttankinhalt.getText()));

this.initDetails();

}

private void setDetails(Rennwagen rennwagen) {

this.initDetails();

try {

this.txtId.setText(rennwagen.getId());

this.txtModell.setText(rennwagen.getModell());

this.txtHersteller.setText(rennwagen.getHersteller());

this.txtLeistung.setText(Integer.*toString*(rennwagen.getLeistung()));

this.txtHubraum.setText(Integer.*toString*(rennwagen.getHubraum()));

this.txtMaxtankinhalt.setText(Float.*toString*(rennwagen.getMaxtankinhalt()));

this.txtIsttankinhalt.setText(Float.*toString*(rennwagen.getIsttankinhalt()));

} catch (Exception e) {

//Fängt den "'Strg' + Links-Klick"-deselect ab

}

}

private void initDetails() {

this.txtId.setText("");

this.txtModell.setText("");

this.txtHersteller.setText("");

this.txtLeistung.setText("0");

this.txtHubraum.setText("0");

this.txtMaxtankinhalt.setText("5.0");

this.txtIsttankinhalt.setText("5.0");

}

private void addRennwagen() {

Rennwagen rennwagen = new Rennwagen();

this.getDetails(rennwagen);

this.rennwagenliste.add(rennwagen);

}

private void updateRennwagen() {

this.getDetails(this.listview.getSelectionModel().getSelectedItem());

this.listview.refresh();

this.listview.getSelectionModel().clearSelection();

}

}