

## **Solucion HelloWorld**

1. [2/10]. After having been in class and reviewing the presentations, you should comment on the HelloMain.java, ControllerView.java and ControllerNew.java classes, which are located within src\main\java\com.example.helloworld. Put as many comments as you think appropriate so that you explain what each class is for, what each created object is and what each function does.

```
→ HelloMain.java ×

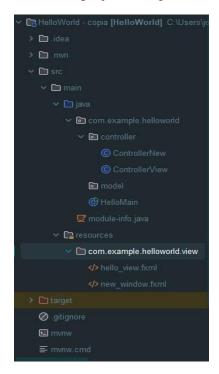
                 ControllerView.java
                                        ControllerNew.java
        package com.example.helloworld;
        import javafx.application.Application;
        import javafx.fxml.FXMLLoader;
        import javafx.scene.Parent;
        import javafx.scene.Scene;
        public class HelloMain extends Application {
             st The start method is the entry point of our JavaFX application.
 700
            public void start(Stage stage) throws Exception {
                FXMLLoader fxmlLoader = new FXMLLoader(HelloMain.class.getResource( name: "hello_view.fxml"));
                Parent root = fxmlLoader.load();
                stage.show();
            public static void main(String[] args) {
                launch(args); // This method handles starting the entire JavaFX lifecycle.
```



```
HelloMain.java
               © ControllerView.java × © ControllerNew.java
     package com.example.helloworld;
     import javafx.scene.Parent;
     import javafx.scene.control.Button;
    import java.io.IOException:
    public class ControllerView {
        private Button btn:
            ControllerNew controller = fxmlLoader.getController();
            // We set the window that launched the event as the owner of this new window.
stage.initOwner(((Node) (event.getSource())).getScene().getWindow());
```

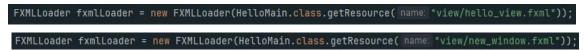


- 2. [3/10]. Starting from the example project, create a copy of it and make the appropriate changes so that:
  - a. The project is organized with the Model View Controller.



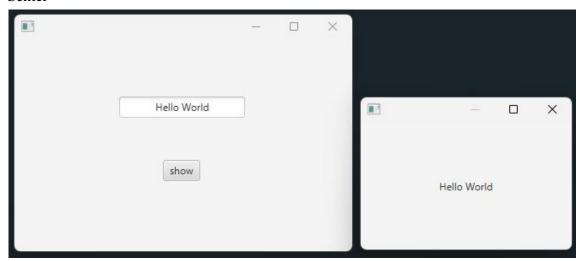


Rename main path so that it finds the hello\_view and controller view so that it finds new\_window



b. All hello\_view and new\_window elements are centered. Also, rename both fxml files to my\_view and my\_new\_Window

## Center



Center the text showing the my\_new\_window label



## Rename



Update the controller and main where we pass the routes

FXMLLoader fxmlLoader = new FXMLLoader(HelloMain.class.getResource( name: "view/my\_view.fxml"));

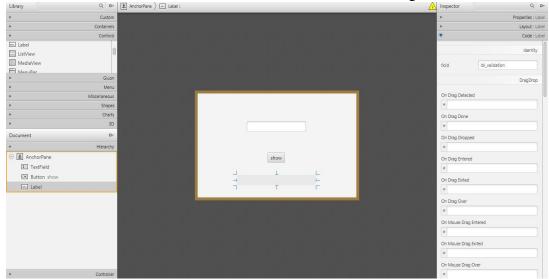
FXMLLoader fxmlLoader = new FXMLLoader(HelloMain.class.getResource( name: "view/my\_new\_window.fxml"));



In ControlallerView.java, a validation is done on the text variable so that, if it is empty (""), instead of opening my\_new\_window, it writes a message in a label (which you must add to the window) that says: "Please write something' and it will be displayed in red.

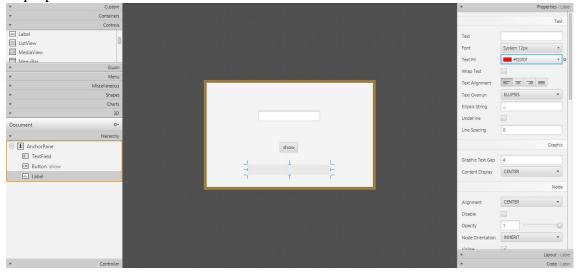


The label was added from the scene builder and the id was assigned





In properties it is set to show the text in red



## Controller code

```
public class ControllerView {
    @FXML
    private Button btn;
    private Label lbl;
    @FXML
    private Label lbl_validation;
    @FXML
    private TextField txt;
            lbl_validation.setText("Please write something");
            // If the text is not empty, it loads the new window
FXMLLoader fxmlLoader = new FXMLLoader(HelloMain.class.getResource( name: "view/my_new_window.fxml")
            Parent root = fxmlLoader.load();
            ControllerNew controller = fxmlLoader.getController();
            Stage stage = new Stage();
            stage.setScene(new Scene(root));
             stage.initModality(Modality.WINDOW_MODAL);
            stage.initOwner(((Node) (event.getSource())).getScene().getWindow());
```