

Tutorial

How to create a Java class from an XML file



Sommaire



Presentation of the application:

Version 2.1/A of ZeroCouplage was finally set up. Before, coding in ZeroCouplage without strong knowledge of Java caused havoc to developers. So they couldn't go straight forward to learning ZeroCouplage, they had to learn first Java programming. In fact, this was a little bit confusing.

Solution: Coding with XML!

XML has a lot of benefits: structured data, obvious, comprehensible to anyone who understands HTML, and more powerful.

Ok! But what is the big deal???

In this tutorial, we'll explain exactly what the big deal is – how XML can be used to create easily and automatically a java class.

Before proceeding with this tutorial, let's have a look of an example of generated java class from xml file:

```
mport org.zerocouplage.component.api.view.ZCView;[
ublic class Inscription implements ZCView {
  private ZCPage page;
private ZCGridLayout layout;
   private ZCLabel labelOfLogin;
   private ZCButton valider:
   private ZCButton reset;
   public ZCPage display() throws IOException, ZCExceptionConfig, ZCCompNotFoundException, Exception
       page =(ZCPage) ZCComponentFactory.newComponent(ZCPage.class);
page.setName("inscription");
       page.setTitle("Inscription");
layout =(ZCGridLayout) ZCComponentFactory.newComponent(ZCGridLayout.class);
       page.setBody(layout);
        layout.setName("sign in");
       layout.setRows(4);
       layout.setCols(1);
       labelOfLogin =(ZCLabel) ZCComponentFactory.newComponent(ZCLabel.class);
       layout.addComponent(labelOfLogin);
       labelOfLogin.setLabel("Entrer Login :");
        valider =(ZCButton) ZCComponentFactory.newComponent(ZCButton.class);
       layout.addComponent(valider);
valider.setAction("goTraitementInscription",this);
       valider.setText("Valider");
reset =(ZCButton) ZCComponentFactory.newComponent(ZCButton.class);
       layout.addComponent(reset);
       reset.setAction("goInscription",this);
reset.setText("Valider");
```

inscription.xml



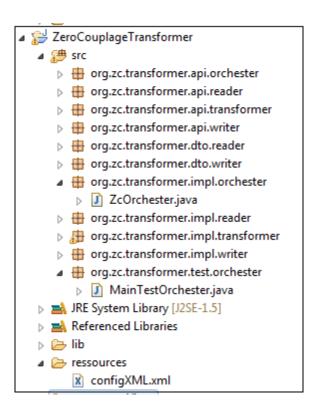
inscription.java



How To Build Your java class with xml file?

1) Import projet of ZeroCouplage from the following link : (Link of SVN or Github)

The project must be like this:



ConfigXML.xml contains all ZCcomponent with their equivalent in Java .

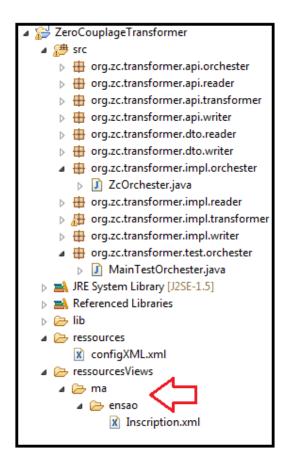
MainTestOrchester.java : class main that instantiates and launches the ZcOrchester.java

2) Create a folder called for example "**RessourceViews**", in this folder you can create as many folder as you want, but take in consideration that folders containing in "**RessourceViews**" will be the name of package where it will be placed your java class.

Example:

RessourceViews/ma/ensao → package: ma.ensao





3) Open the class ZcOrchester.java and change paths: 1 and 2

```
package org.zc.transformer.impl.orchester;

# import java.io.File;[]
public class ZcOrchester {

private String[] listpathViewXML;
    //File [] listpathViewXML;
    //File [] listpathViewXML;
    private ReaderDTO readerDTO;
    private ZCReader ConfigDTO;
    private ZCReader ConfigDTO;
    private ZCReader ConfigDTO;
    private ZCReader Config zcReaderConfig;

public void ochester(file pathViewFolder, String outputFolder) {

    listpathViewXML = pathViewXML length; !++) {
        if (listpathViewXML length; !++) {
            String path = pathViewZ listpathViewXML[i];
            String pathViewZ listpathViewXML[i];
            String pathViewZ listpathViewXML[i];
            String path = pathViewZ listpathViewZ;
            String path = pathViewZ listpathViewZ listpathViewZ;
            String pathZCReader = path.replace("\", "/");

            zcreader = new ZCReader();
            readerDTO = zcreader.ReadView(pathZCReader, D:/ENSAD/GI4 S2/PFA/ZC Projects/ZeroCouplageTransformer/ressources/Views/);
            zcReaderConfig = new ZCReaderConfig();
            configDTO = zcReaderConfig.read("D:/ENSAD/GI4 S2/PFA/ZC Projects/ZeroCouplageTransformer/ressources/configXML.xm]);

            zcransformer-new org.zc.transformer.impl.transformer.ZCTransformer();
            javaDTO = new JavaDTO();
            javaDTO=creansformer.transformer(readerDTO, configDTO);
            zcwriter = new Zckwiter();

            zcwriter = new Zckwiter();
            zcwriter = new Zckwiter();
            zcwriter = new Zckwiter();
            zcwriter = new Zckwiter();
            zcwriter = new Zckwiter();
            zcwriter = new Zckwiter();
            zcwriter = new Zckwiter();
            zcwriter = new Zckwiter();
            zcwriter = new Zckwiter();
            zcwriter = new Zckwiter();
            zcwriter = new Zckwiter();
            zcwriter = new Zckwiter();
            zcwriter = new Zckwiter();
            zcwriter = new Zckwiter();
            zcwriter = new Zckwiter();
            zcwriter = n
```



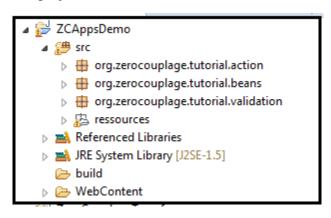
Path1: path of your View folder "ressources Views" in your disk.

Path2: path of configXML.xml in your disk.

How to get this paths?

- -Click right on the file or folder \rightarrow properties \rightarrow Location \rightarrow get the path!
- 4) Import projet of the demo from the following link : (Link of SVN or Git)

The project must be like this:



- 5) Go back to the project of ZeroCouplageTransformer and then to the main class of orchester: MainTestOrchester.java, after that ,Change paths again: 1 & 2.
 - -Path1: path of your View "inscription.xml" in your disk.
 - -Path2: path of "src" in your project ("ZCAppsDemo").

```
MainTestOrchester.java
```

```
package org.zc.transformer.test.orchester;

import java.io.File;

public class MainTestOrchester {

   public static void main(String[] args) {

        ZcOrchester zcOrchester = new ZcOrchester();

        File pathview = new File('D:/ENSAO/GI4_S2/PFA/ZC_Projects/ZeroCouplageTransformer/ressourcesViews/ma/ensao/');

        zcOrchester.ochester(pathview , 'D://ENSAO//GI4_S2//PFA//ZC_Projects//ZCAppsDemo//src');
    }

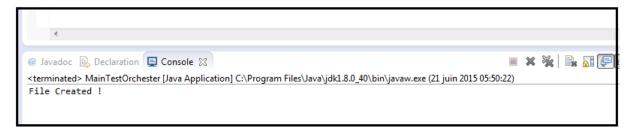
        2
}
```



6) Go to "MainTestOrchester.java" and run as Java application .

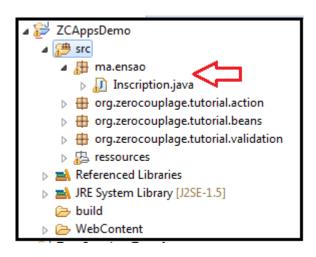
If you get "**File created**" like above, then go to step 7.

If you get an error, try to fix them first.



7) Go to "src" of your project "ZcAppsDemo" and then press F5

8



Congratulation! your java class is created in you package ma.ensao



```
🚺 Inscription.java 🛭
    package ma.ensao;
😘 ⊕ import org.zerocouplage.component.api.view.ZCView;[.
    public class Inscription implements ZCView {
        private ZCPage page;
        private ZCGridLayout layout;
        private ZCLabel labelOfLogin;
        private ZCButton valider;
        private ZCButton reset;
  Θ
        @Override
        public ZCPage display() throws IOException, ZCExceptionConfig, ZCCompNotFoundException, Exception {
            page =(ZCPage) ZCComponentFactory.newComponent(ZCPage.class);
            page.setName("inscription");
page.setTitle("Inscription");
            layout =(ZCGridLayout) ZCComponentFactory.newComponent(ZCGridLayout.class);
             page.setBody(layout);
             layout.setName("sign in");
             layout.setRows(4);
             layout.setCols(1);
            labelOfLogin =(ZCLabel) ZCComponentFactory.newComponent(ZCLabel.class);
             layout.addComponent(labelOfLogin);
             labelOfLogin.setLabel("Entrer Login :");
             valider =(ZCButton) ZCComponentFactory.newComponent(ZCButton.class);
            layout.addComponent(valider);
            valider.setAction("goTraitementInscription",this);
            valider.setText("Valider");
             reset =(ZCButton) ZCComponentFactory.newComponent(ZCButton.class);
             layout.addComponent(reset);
            reset.setAction("goInscription",this);
            reset.setText("Valider");
            return page;
        }
    }
```

The end