

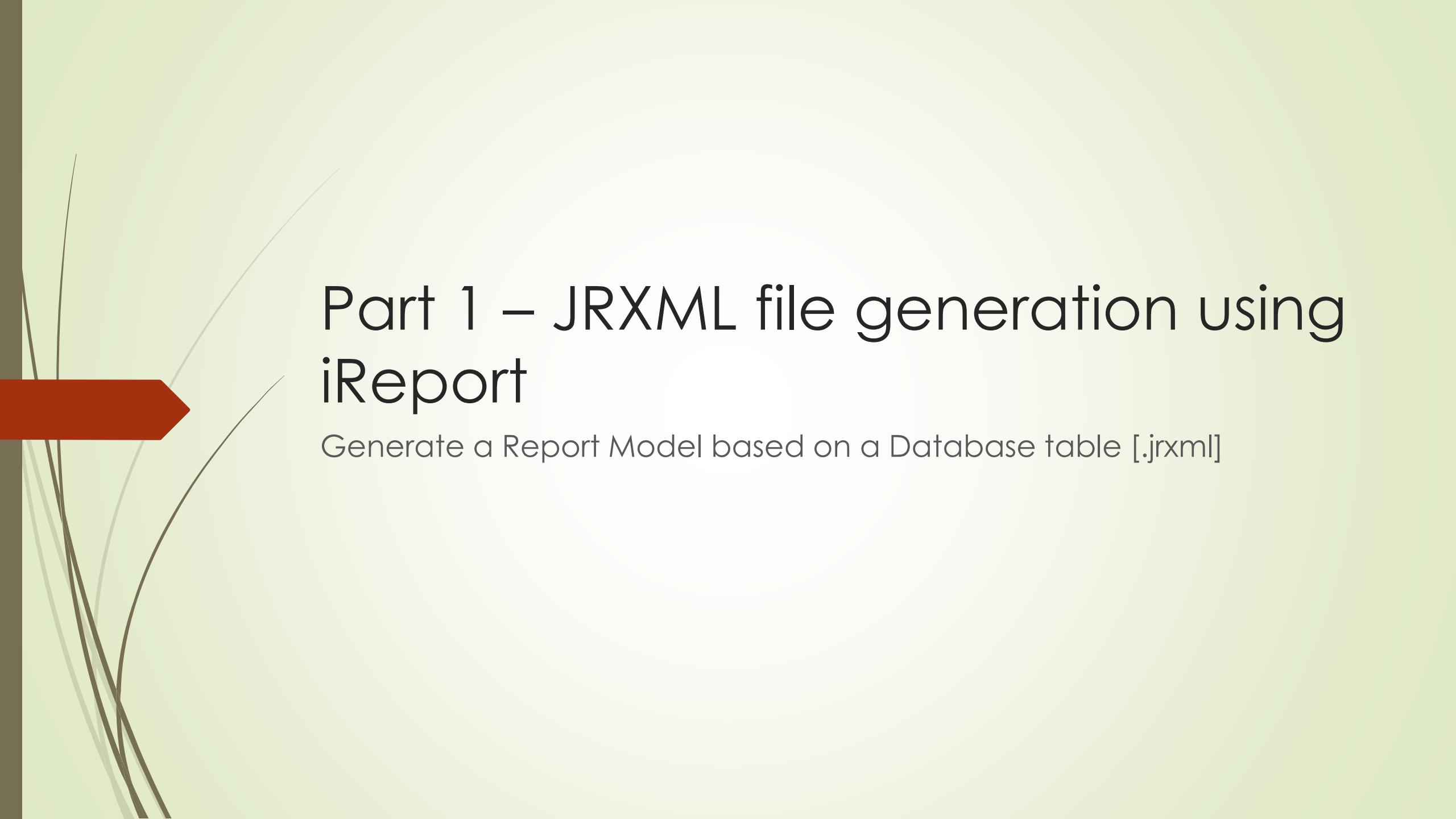
Jasper Report

Workshop – Java/MySQL Integration

UP-JAVA@ESPRIT

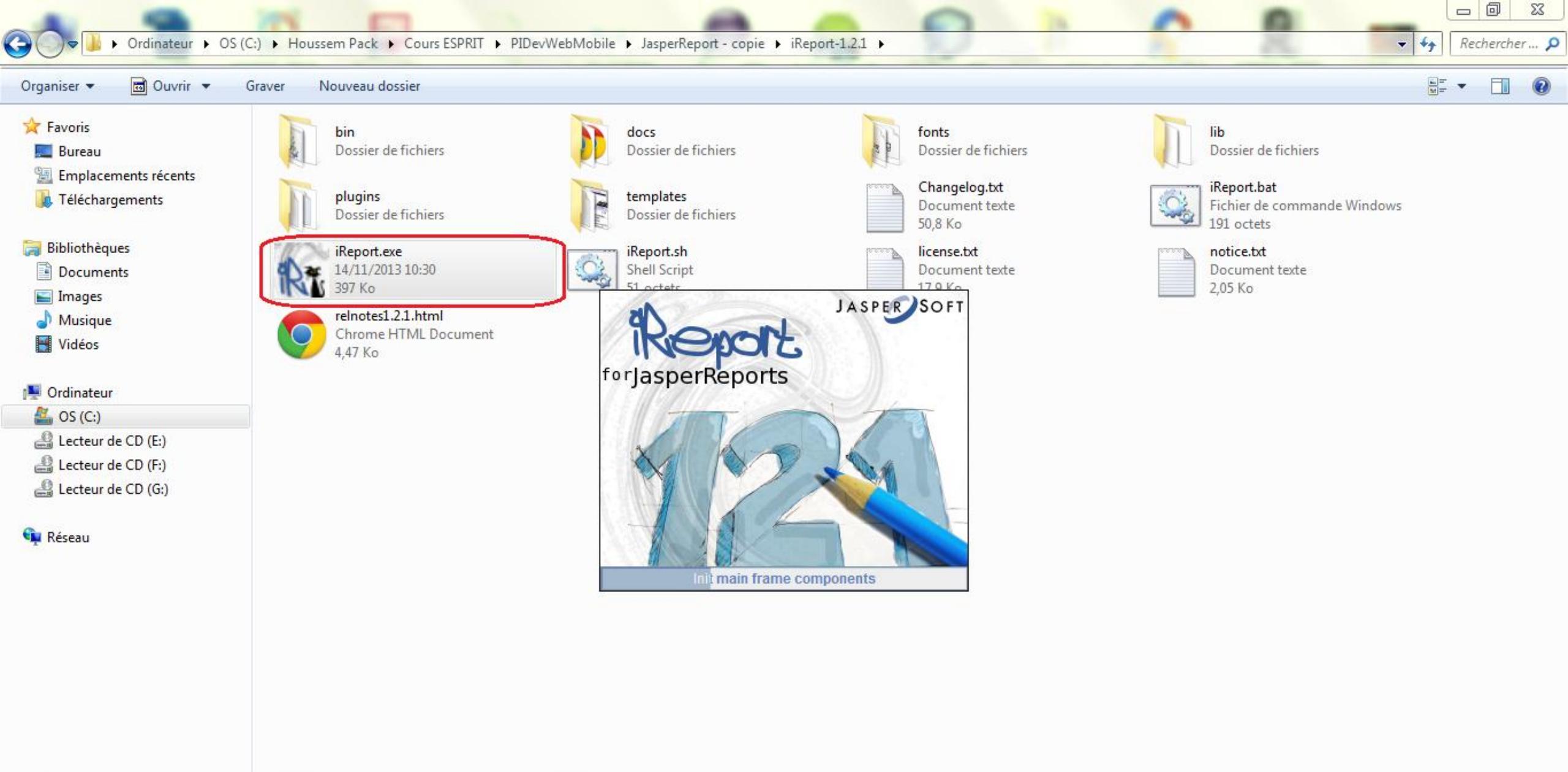
Requirements for this Workshop

- ▶ iReport-1.2.1 or later
- ▶ MySQL Database with at Least Table
- ▶ Sample Java Project (ReportingPdf) + IDE(NetBeans)
- ▶ 20 mins



Part 1 – JRXML file generation using iReport

Generate a Report Model based on a Database table [.jrxml]

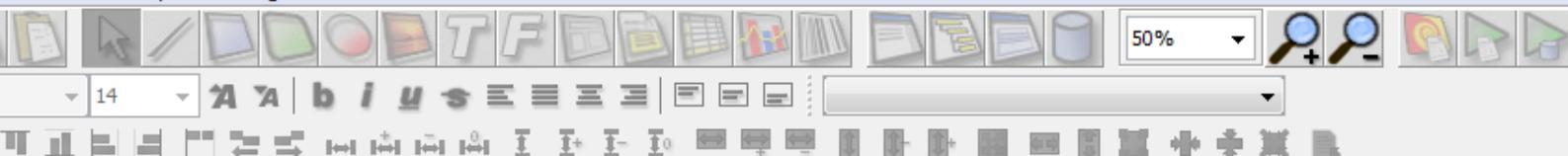


 iReport.exe Modifié le : 24/07/2012 11:40
Application Taille : 397 Ko

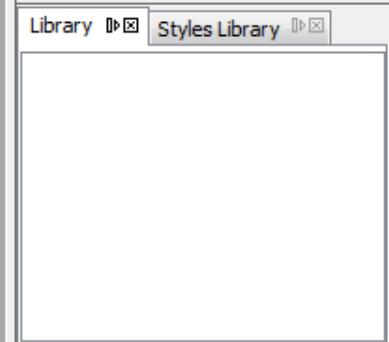
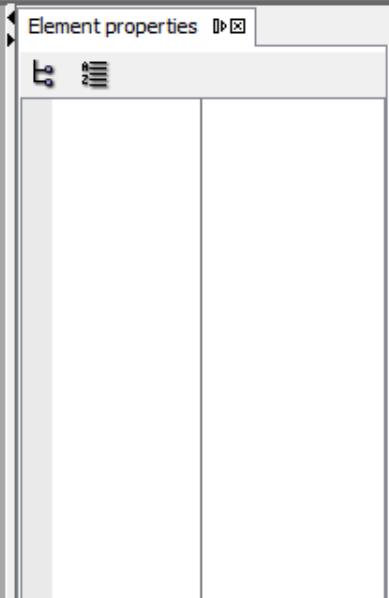
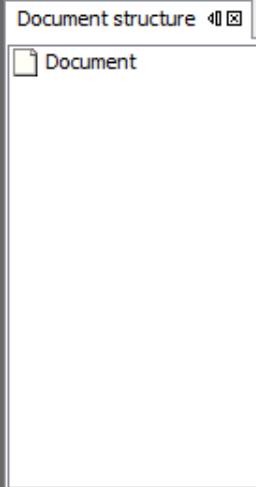
Date de création : 14/11/2013 10:30



- Nouveau
- Report Wizard **Report Wizard**
- Ouvrir
- Sauvegarder
- Sauvegarder Sous...
- Sauvegarder Tout
- Close
- Close all
- Close all except this
- Print design
- Revert to saved
- Fichiers Récents ▾
- Quitter



50%



Error loading Configuration file: C:\Users\ESPRIT Mobile\.ireport\recentFiles.xml

iReport home (ireport.home system property): .
User home (user.home system property): C:\Users\ESPRIT Mobile\ireport

Active Threads



phpMyAdmin



esprit_jasper_bd

personne

Nouvelle table

localhost > esprit_jasper_bd > personne

Afficher Structure SQL Rechercher Insérer Exporter Importer Opérations

✓ Affichage des lignes 0 - 1 (~2 total , Traitement en 0.0005 sec)

```
SELECT *  
FROM `personne`  
LIMIT 0 , 30
```

Profilage [En ligne] [Modifier] [Expliquer SQL] [Créer source PHP] [Actualiser]

Afficher : 30 ligne(s) à partir de la ligne n° 0 en mode horizontal et répéter les en-têtes à chaque groupe de 100

Trier sur l'index: Aucune

+ Options

		id	nom	prenom
<input type="checkbox"/>	Modifier	Éditer en place	Copier	Effacer
<input type="checkbox"/>	Modifier	Éditer en place	Copier	Effacer

↑ Tout cocher / Tout décocher Pour la sélection : [Modifier](#) [Effacer](#) [Exporter](#)

Afficher : 30 ligne(s) à partir de la ligne n° 0 en mode horizontal et répéter les en-têtes à chaque groupe de 100

Opérations sur les résultats de la requête

Version imprimable Version imprimable (avec textes complets) Exporter Afficher le graphique Créer une vue

ProjetDAO_Complet.zip

Atelier Java ch1 jdbc.pdf

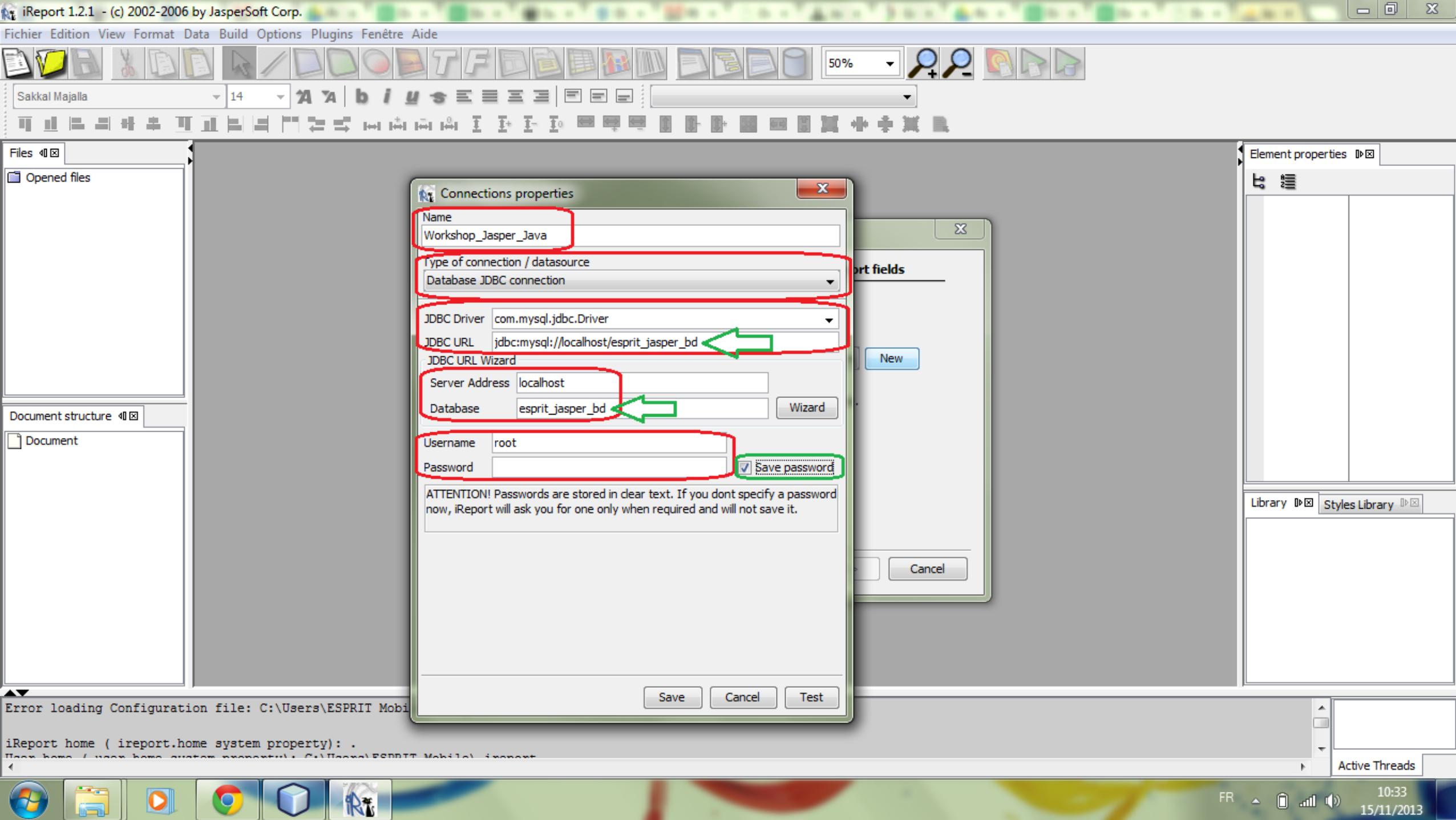
AjoutEtd.java

Mini projet FBconn....pptx

imprimesFB.rar

Afficher tous les téléchargements...





iReport 1.2.1 - (c) 2002-2006 by JasperSoft Corp.

Fichier Edition View Format Data Build Options Plugins Fenêtre Aide

Sakkal Majalla 14 Workshop_Jasper_Java 50% +

Files Opened files Document structure Document

Report Wizard Step 1: insert the query to retrieve report fields

Steps

1. Query
2. Fields selection
3. Group by...
4. Layout
5. Finish

Connection / Datasource: Workshop_Jasper_Java New

SQL query: SELECT * from personne

Load query Save query

< Prev Next > Cancel

Element properties

Library Styles Library

Error loading Configuration file: C:\Users\ESPRIT Mobile\.ireport\recentFiles.xml

iReport home (ireport.home system property): .

Home home (user.home system property): C:\Users\ESPRIT Mobile\ireport

Active Threads

FR 10:34 15/11/2013

Windows Taskbar icons: Internet Explorer, Google Chrome, File Explorer, Media Player, iReport icon.

iReport 1.2.1 - (c) 2002-2006 by JasperSoft Corp.

Fichier Edition View Format Data Build Options Plugins Fenêtre Aide

Sakkal Majalla 14 Workshop_Jasper_Java 50% 50%

Files Opened files Document structure Document

Report Wizard

Steps

- 1. Query
- 2. Fields selection**
- 3. Group by...
- 4. Layout
- 5. Finish

Step 2: select fields

id
nom
prenom

> >> < <<

< Prev Next > Cancel

Element properties

Library Styles Library

Error loading Configuration file: C:\Users\ESPRIT Mobile\.ireport\recentFiles.xml

iReport home (ireport.home system property): .

Home home (user.home system property): C:\Users\ESPRIT Mobile\ireport

Active Threads

FR 10:34 15/11/2013

Windows Taskbar icons: Internet Explorer, Google Chrome, File Explorer, Media Player, iReport icon.

iReport 1.2.1 - (c) 2002-2006 by JasperSoft Corp.

Fichier Edition View Format Data Build Options Plugins Fenêtre Aide

Sakkal Majalla 14 Workshop_Jasper_Java 50% 50%

Files Opened files Document structure Document

Report Wizard

Steps

- 1. Query
- 2. Fields selection**
- 3. Group by...
- 4. Layout
- 5. Finish

Step 2: select fields

id nom prenom

> <> <<

< Prev Next > Cancel

Error loading Configuration file: C:\Users\ESPRIT Mobile\.ireport\recentFiles.xml

iReport home (ireport.home system property): .

Home home (user.home system property): C:\Users\ESPRIT Mobile\ireport

Element properties

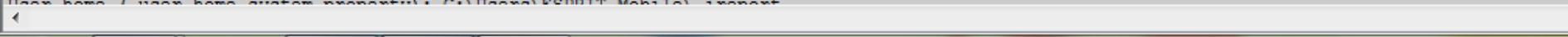
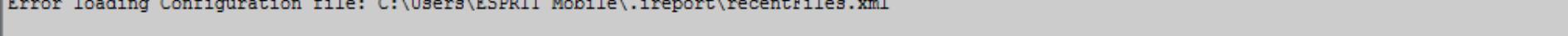
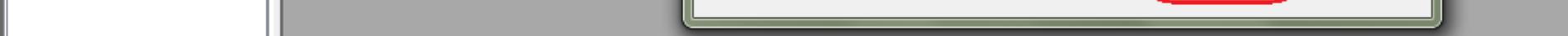
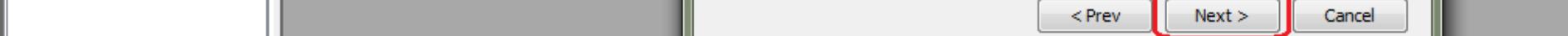
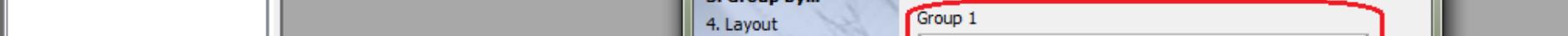
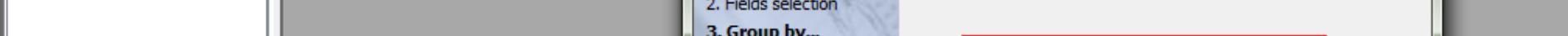
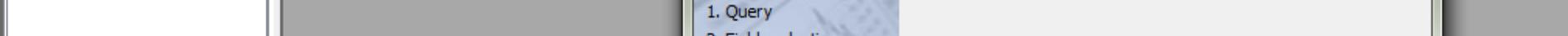
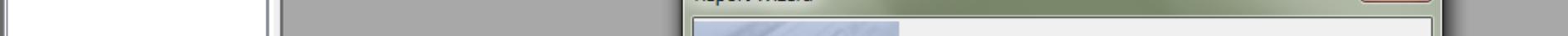
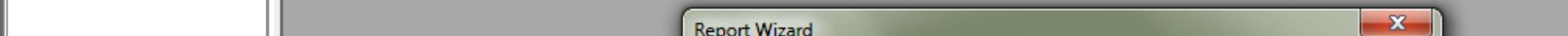
Library Styles Library

Active Threads

FR 10:34 15/11/2013

10:34 15/11/2013

The screenshot shows the iReport 1.2.1 interface with the 'Report Wizard' dialog open. The 'Steps' list on the left shows '2. Fields selection' as the current step. The main area, titled 'Step 2: select fields', displays two lists: 'Selected' (containing 'id', 'nom', and 'prenom') and 'Available'. Between the lists are four buttons: '>', '<>', '<', and '<<'. At the bottom are 'Next >' and 'Cancel' buttons, with 'Next >' being highlighted with a blue box. The status bar at the bottom shows error messages about configuration files and the home directory, and the bottom right corner shows the date and time.



iReport 1.2.1 - (c) 2002-2006 by JasperSoft Corp.

Fichier Edition View Format Data Build Options Plugins Fenêtre Aide

Sakkal Majalla 14 Workshop_Jasper_Java 50%

Files Opened files Document structure Document

Report Wizard Step 4: choose layout

Steps

- 1. Query
- 2. Fields selection
- 3. Group by...
- 4. Layout**
- 5. Finish

Columnar layout
 Tabular layout

dassicC.xml
grayC.xml
YBC.xml

Classic Report Template

COVINCIA
CITTA
CAP
COGNOME1
NOME
SESSO
DATANASCITA

< Prev Next > Cancel

Element properties

Library Styles Library

Error loading Configuration file: C:\Users\ESPRIT Mobile\.ireport\recentFiles.xml

iReport home (ireport.home system property): .
User home (user.home system property): C:\Users\ESPRIT Mobile\ireport

Active Threads

FR 10:34 15/11/2013

10:34 15/11/2013

iReport 1.2.1 [classic 595x842 (Modified) null]

Fichier Edition View Format Data Build Options Plugins Fenêtre Aide

Sakkal Majalla 14 Workshop_Jasper_Java 100%

Files 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32

Opened files [classic]

Element properties

Document structure Document

Library Styles Library

Error loading Configuration file: C:\Users\ESPRIT Mobile\.ireport\recentFiles.xml

iReport home (ireport.home system property): .
User home (user.home system property): C:\Users\ESPRIT Mobile\ireport

Active Threads

FR 10:35 15/11/2013

Classic Report Template

reportHeader

{d \$F{id} detail}

nom \$F{nom}

prenom \$F{prenom}

new Date() pageFooter "Page " + \$V{PAGE_NUMBER} + " " + \$V

The screenshot shows the iReport 1.2.1 interface. The main workspace displays a report template titled "Classic Report Template". The template consists of three sections: a header, a detail section, and a footer. The header contains a single row with two columns, the first being a placeholder for an ID and the second containing the expression '\$F{id}'. The detail section contains two rows, each with two columns: 'nom' and '\$F{nom}' in the first row, and 'prenom' and '\$F{prenom}' in the second row. The footer section contains one row with two columns: 'new Date()' and 'pageFooter "Page " + \$V{PAGE_NUMBER} + " " + \$V'.

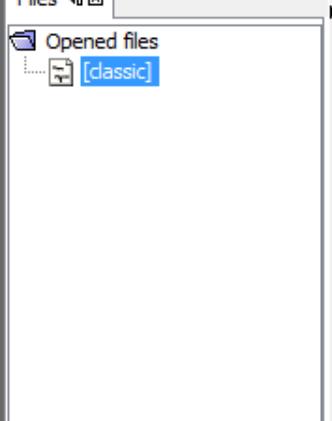
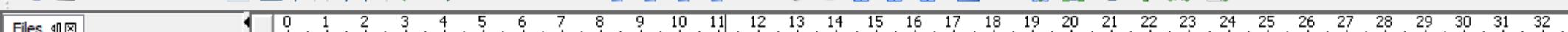
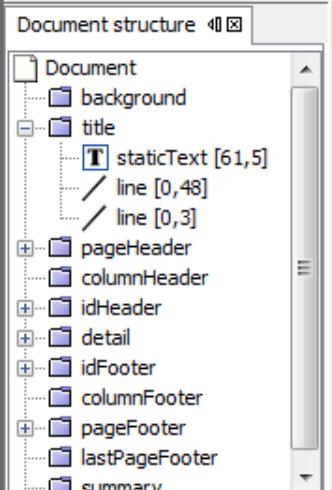
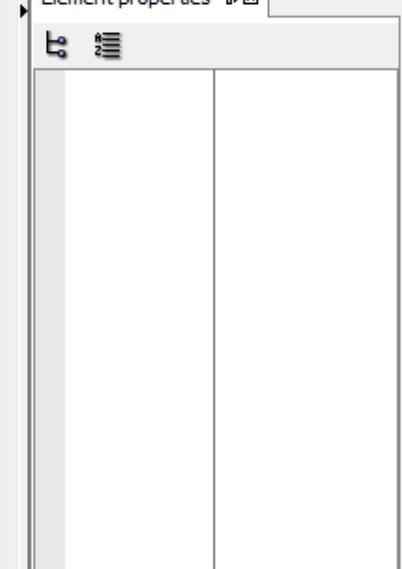


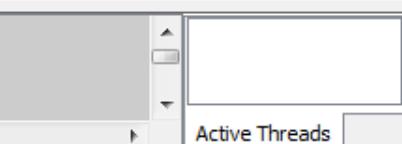
Table Personne

d	\$F{id}
nom	\$F{nom}
prenom	\$F{prenom}
new Date()	"Page " + \$V{PAGE_NUMBER} + " " + \$V



Error loading Configuration file: C:\Users\ESPRIT Mobile\.ireport\recentFiles.xml

iReport home (ireport.home system property): .
User home (user.home system property): C:\Users\ESPRIT Mobile\ireport



iReport 1.2.1 [classic 595x842 (Modified) null]

Fichier Edition View Format Data Build Options Plugins Fenêtre Aide

SansSerif 10 Workshop_Jasper_Java

100% 27

Files Opened files [classic]

Save report as XML jasperreports file...

Enregistrer dans : JasperReport

Documents récents

Bureau

Mes documents

Ordinateur

Réseau

Nom du fichier : workshop_jasper_java_classic.jrxml

Fichiers de type : JasperReports XML *.xml, *.jrxml

Enregistrer Annuler

Element properties

Document structure

Document

- background
- title
 - staticText [61,5]
 - line [0,48]
 - line [0,3]
- pageHeader
- columnHeader
- idHeader
- detail
- idFooter
- columnFooter
- pageFooter
- lastPageFooter
- summary

Error loading Configuration file: C:\Users\ESPRIT Mobile\.ireport\recentFiles.xml

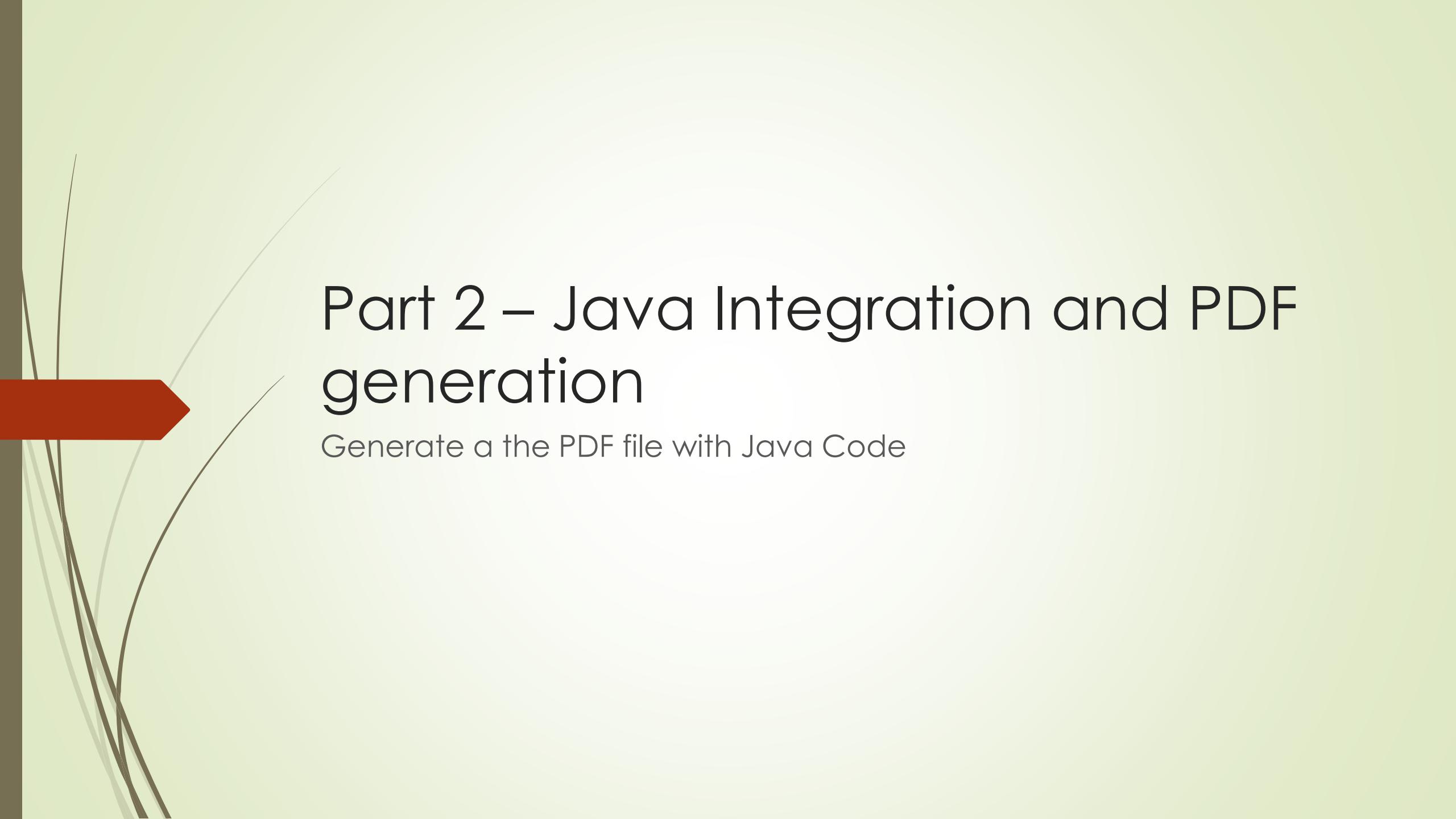
iReport home (ireport.home system property): .

FR 10:35 15/11/2013

Active Threads

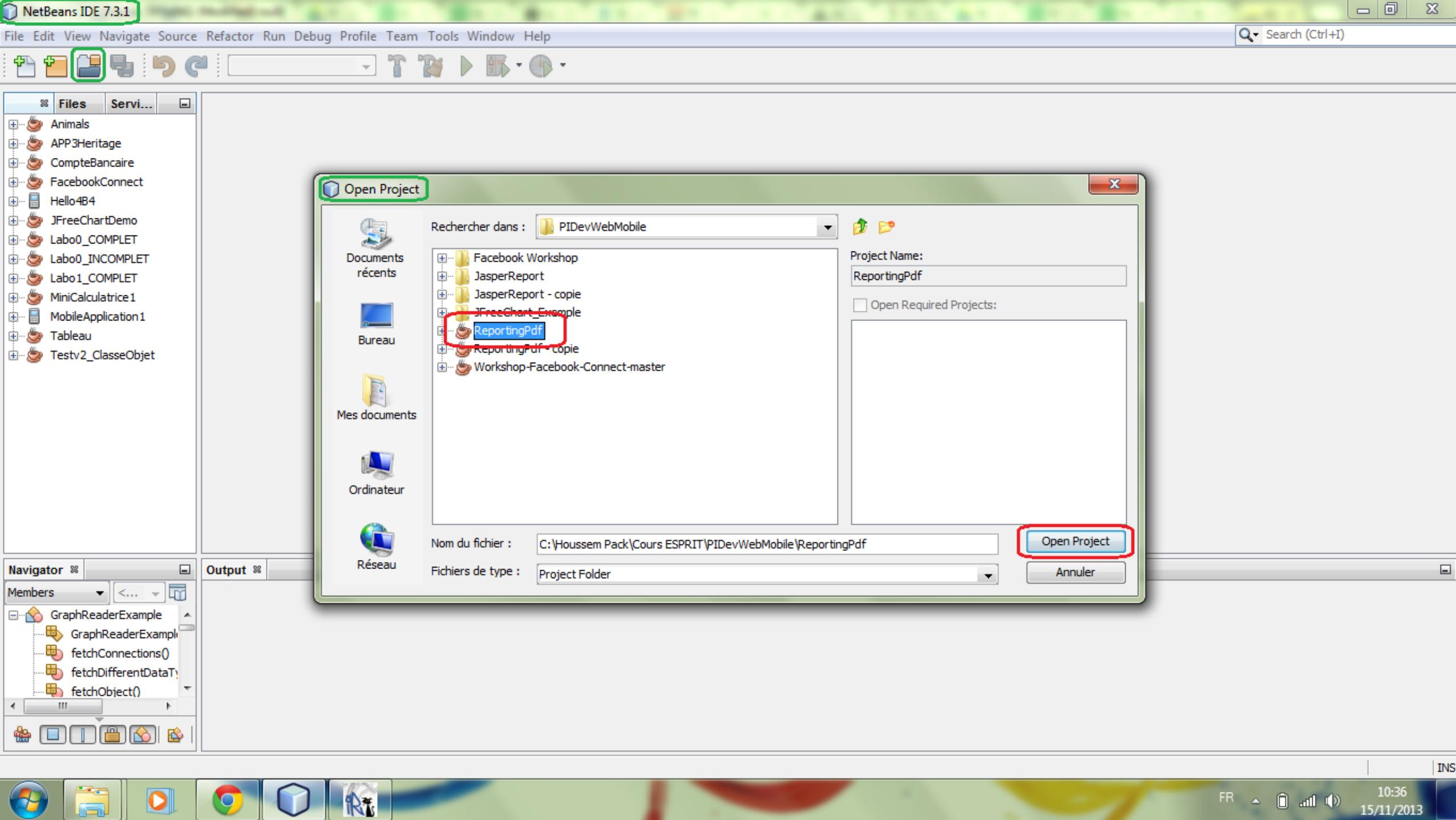
Windows Taskbar icons: Internet Explorer, Google Chrome, File Explorer, Powerpoint, iReport

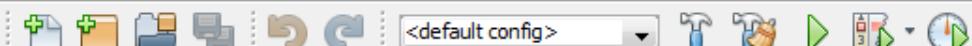
The screenshot shows the iReport 1.2.1 interface. The main window displays a report design with several static text fields and a date placeholder. The 'Document structure' panel on the left lists all report components. A 'Save report as XML jasperreports file...' dialog box is centered over the workspace, allowing the user to choose a save location ('JasperReport') and enter a file name ('workshop_jasper_java_classic.jrxml'). The 'Enregistrer' button is highlighted with a red box. The status bar at the bottom shows error messages about configuration files and the iReport home path, along with system status icons.



Part 2 – Java Integration and PDF generation

Generate a the PDF file with Java Code





- Files
- Servi...
- FacebookConnect
- Hello4B4
- JFreeChartDemo
- Labo0_COMPLET
- Labo0_INCOMPLET
- Labo1_COMPLET
- MiniCalculatrice1
- MobileApplication1
- ReportingPdf**

 - Source Packages
 - Libraries
 - MySQL JDBC Driver
 - commons-beanutils
 - commons-collect
 - commons-digest
 - commons-logging
 - iReport.jar
 - itext-1.3.1.jar
 - jasperreports-2.1.1
 - JDK 1.7 (Default)

- Tableau
- Testv2_ClasseObjet

Navigator

- Members
- <...>
- GraphReaderExample
 - GraphReaderExample
 - fetchConnections()
 - fetchDifferentDataTypes()
 - fetchObject()

Output - ReportingPdf (clean) x

```
ant -f "C:\\Houssem Pack\\Cours ESPRIT\\PIDevWebMobile\\ReportingPdf - copie" clean
init:
deps-clean:
Updating property file: C:\\Houssem Pack\\Cours ESPRIT\\PIDevWebMobile\\ReportingPdf - copie\\build\\built-clean.properties
Deleting directory C:\\Houssem Pack\\Cours ESPRIT\\PIDevWebMobile\\ReportingPdf - copie\\build
clean:
BUILD SUCCESSFUL (total time: 0 seconds)
```

Finished building ReportingPdf (clean).



Project Properties - ReportingPdf

Categories:

- Sources
- Libraries**
- Build
 - Compiling
 - Packaging
 - Documenting
- Run
- Application
 - Web Start
- Formatting

Java Platform: JDK 1.7 (Default) Manage Platforms...

Libraries Folder: Browse...

Compile Processor Run Compile Tests Run Tests

Compile-time Libraries:

- MySQL JDBC Driver
- src\JasperLib\commons-beanutils-1.7.jar
- src\JasperLib\commons-collections-2.1.jar
- src\JasperLib\commons-digester-1.7.jar
- src\JasperLib\commons-logging-1.0.2.jar
- src\JasperLib\Report.jar
- src\JasperLib\iText-1.3.1.jar
- src\JasperLib\jasperreports-2.0.1.jar**

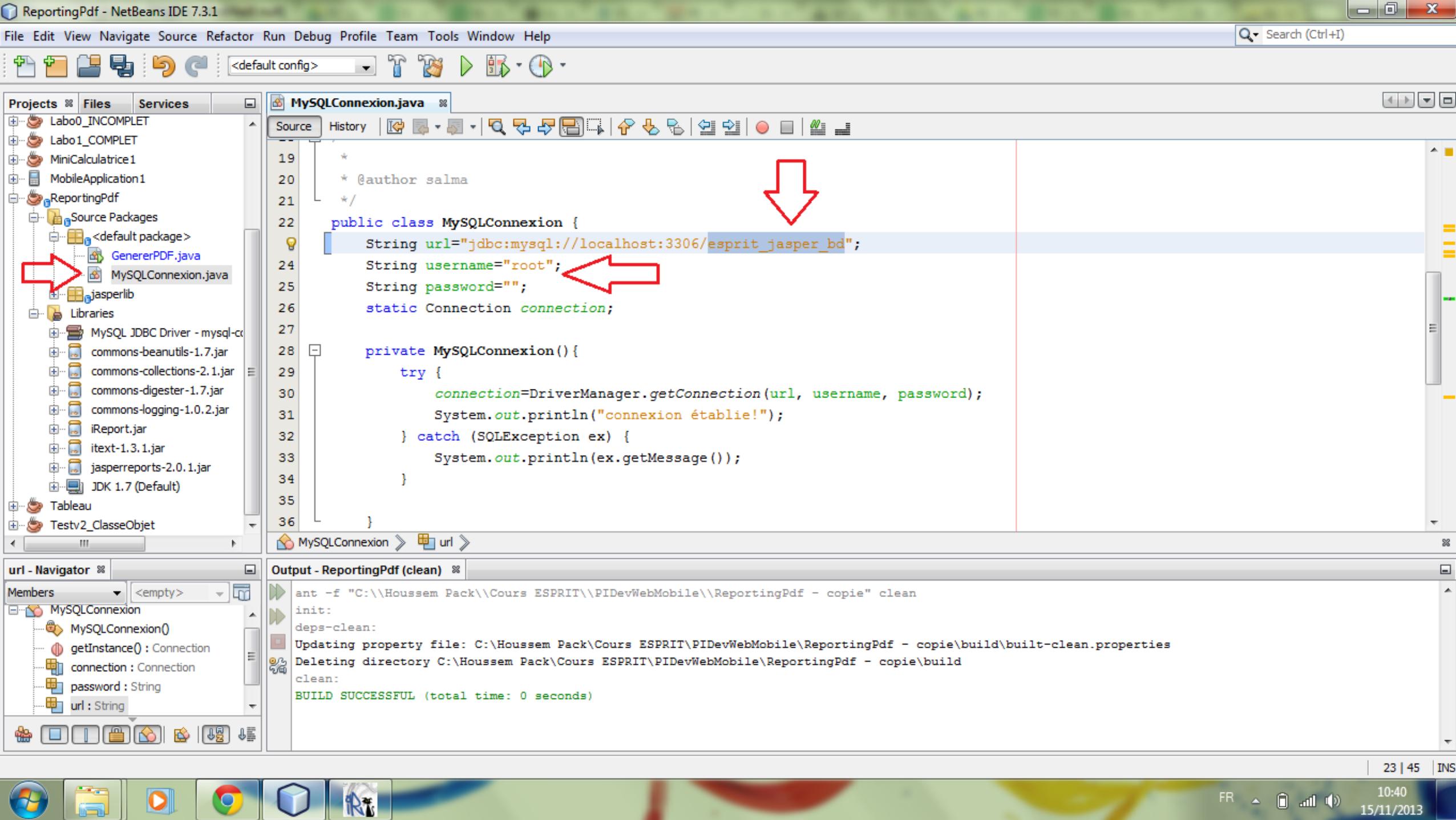
Add Project... Add Library... Add JAR/Folder Edit Remove Move Up Move Down

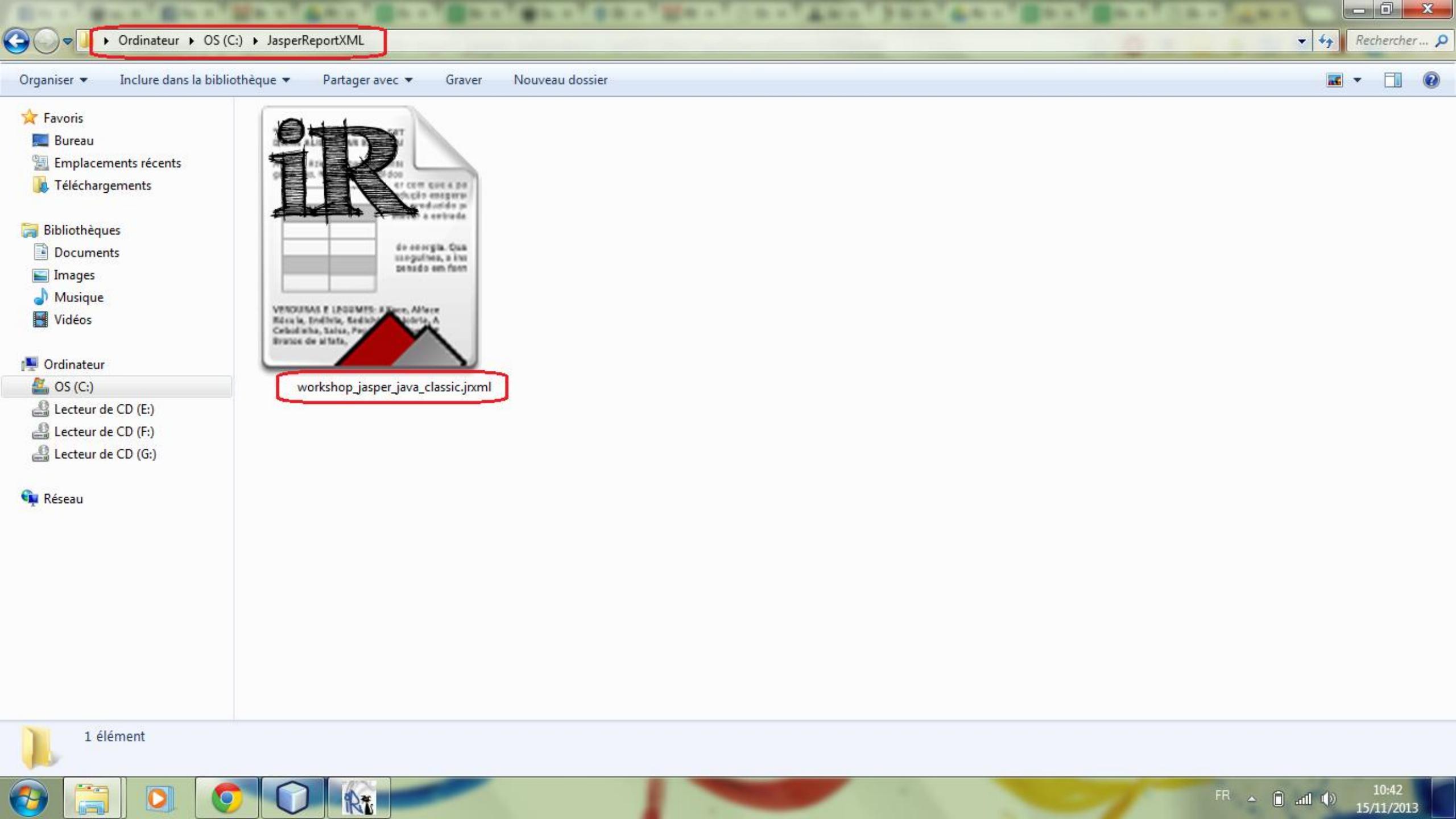
Compile-time libraries are propagated to all library categories.

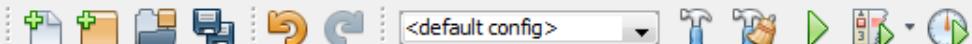
Build Projects on Classpath

OK Cancel Help









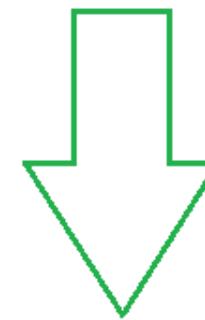
Projects Files Services

Labo0_INCOMPLET
Labo1_COMPLET
MiniCalculatrice1
MobileApplication1
ReportingPdf
Source Packages
GenererPDF.java
MySQLConnexion.java
jasperlib
Libraries
MySQL JDBC Driver - mysql-connector-java-5.1.36-bin.jar
commons-beanutils-1.7.jar
commons-collections-2.1.jar
commons-digester-1.7.jar
commons-logging-1.0.2.jar
iReport.jar
itext-1.3.1.jar
jasperreports-2.0.1.jar
JDK 1.7 (Default)
Tableau
Testv2_ClasseObjet

MySQLConnexion.java GenererPDF.java

```
Source History |  |               
23        * @salma  
24        */  
25  
26        public class GenererPDF {  
27        public static void main(String[] args) {  
28              // - Paramètres de connexion à la base de données  
29  
30              Connection connection;  
31              try {  
32                  // - Connexion à la base  
33                  connection=MySQLConnexion.getInstance();  
34                  // - Chargement et compilation du rapport (charger le fichier jrxm... déjà générée)  
35                  JasperDesign jasperDesign = JRXmlLoader.load("C:\\\\JasperReportXML\\\\workshop_jasper_java_classic.jrxml");  
36                  JasperReport jasperReport = JasperCompileManager.compileReport(jasperDesign);  
37                  // - Paramètres à envoyer au rapport  
38                  Map parameters = new HashMap();  
39                  parameters.put("Titre", "Titre");  
40                  // - Execution du rapport  
41                  JasperPrint jasperPrint = JasperFillManager.fillReport(jasperReport, parameters, connection);  
42     } catch (Exception e) {  
43        e.printStackTrace();  
44     }  
45   }
```

GenererPDF > main > try > jasperDesign >



main - Navigator

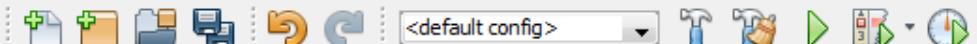
Members <empty>

GenererPDF
main(String[] args)

Output - ReportingPdf (clean)

```
ant -f "C:\\Houssem Pack\\Cours ESPRIT\\PIDevWebMobile\\ReportingPdf - copie" clean  
init:  
deps-clean:  
Updating property file: C:\\Houssem Pack\\Cours ESPRIT\\PIDevWebMobile\\ReportingPdf - copie\\build\\built-clean.properties  
Deleting directory C:\\Houssem Pack\\Cours ESPRIT\\PIDevWebMobile\\ReportingPdf - copie\\build  
clean:  
BUILD SUCCESSFUL (total time: 0 seconds)
```





Projects Files Services

Labo0_INCOMPLET
Labo1_COMPLET
MiniCalculatrice1
MobileApplication1
ReportingPdf
Source Packages
 <default package>
 GenererPDF.java
 MySQLConnexion.java
jasperlib
Libraries
 MySQL JDBC Driver - mysql-connector-java-5.1.36-bin.jar
 commons-beanutils-1.7.jar
 commons-collections-2.1.jar
 commons-digester-1.7.jar
 commons-logging-1.0.2.jar
 iReport.jar
 itext-1.3.1.jar
 jasperreports-2.0.1.jar
 JDK 1.7 (Default)
Tableau
Testv2_ClasseObjet

MySQLConnexion.java GenererPDF.java

Source History | Connection Connection

```

31     try {
32         // - Connexion à la base
33         connection=MySQLConnexion.getInstance();
34         // - Chargement et compilation du rapport (charger le fichier jrxml déjà généré)
35         JasperDesign jasperDesign = JRXmlLoader.load("C:\\\\JasperReportXML\\\\workshop_jasper_java_classic.jrxml");
36         JasperReport jasperReport = JasperCompileManager.compileReport(jasperDesign);
37         // - Paramètres à envoyer au rapport
38         Map parameters = new HashMap();
39         parameters.put("Titre", "Titre");
40         // - Execution du rapport
41         JasperPrint jasperPrint = JasperFillManager.fillReport(jasperReport, parameters, connection);
42         // - Création du rapport au format PDF
43         JasperExportManager.exportReportToPdfFile(jasperPrint, "C:\\\\JasperReportXML\\\\workshop_jasper_java_classic.pdf");
44         System.out.println("success");
45     }
46
47     catch (JRException e) {
48         System.out.println("erreur de compilation"+ e.getMessage());

```

Destination File

GenererPDF > main > try >

main - Navigator

Members <empty>
GenererPDF
 main(String[] args)

Output - ReportingPdf (clean)

```

ant -f "C:\\Houssem Pack\\Cours ESPRIT\\PIDevWebMobile\\ReportingPdf - copie" clean
init:
deps-clean:
Updating property file: C:\\Houssem Pack\\Cours ESPRIT\\PIDevWebMobile\\ReportingPdf - copie\\build\\built-clean.properties
Deleting directory C:\\Houssem Pack\\Cours ESPRIT\\PIDevWebMobile\\ReportingPdf - copie\\build
clean:
BUILD SUCCESSFUL (total time: 0 seconds)

```



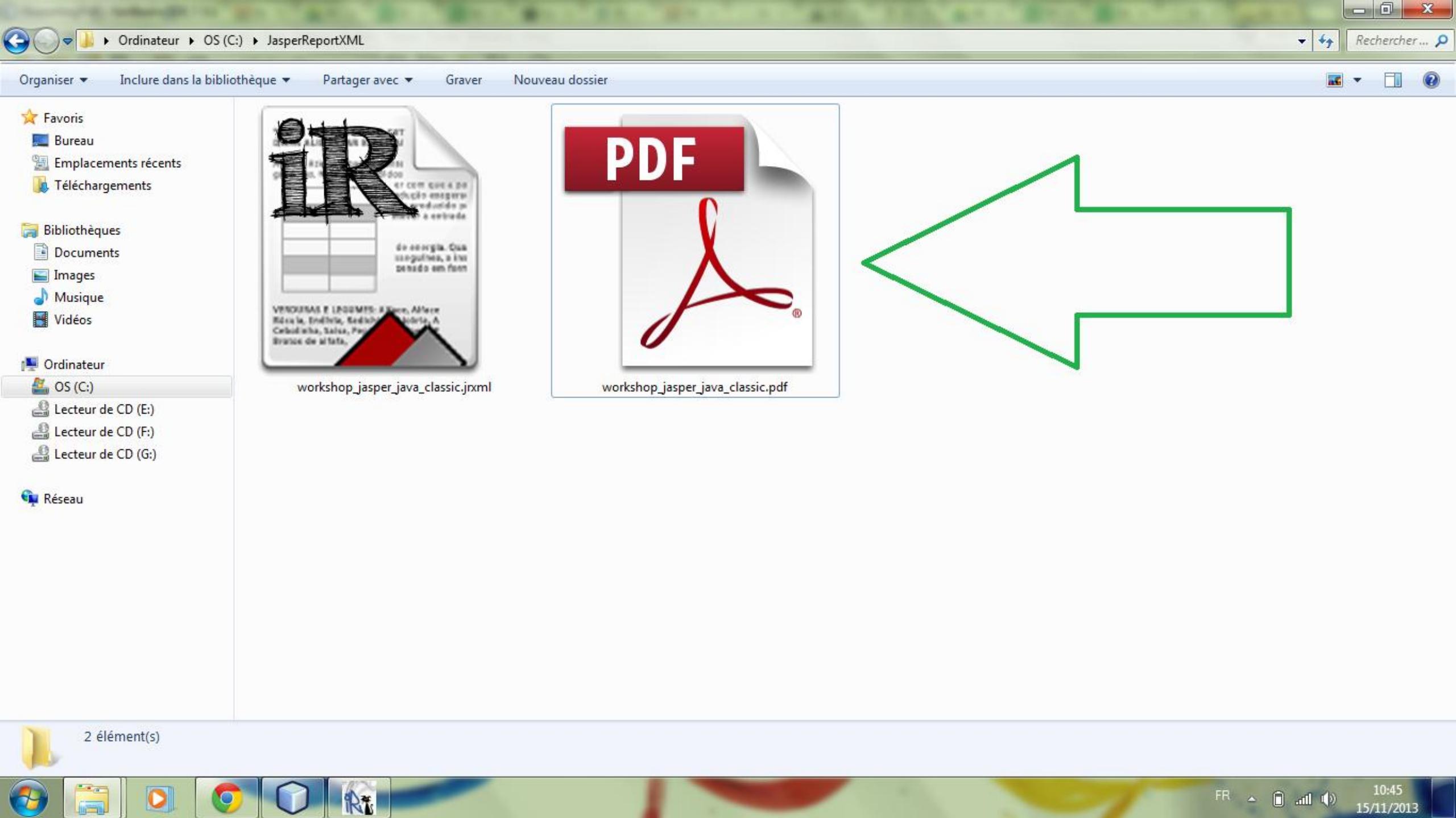


Table Personne :)

id	1
nom	Houssem Eddine
prenom	Lassoued

id	2
nom	Wiem
prenom	Hjiri



Thanks