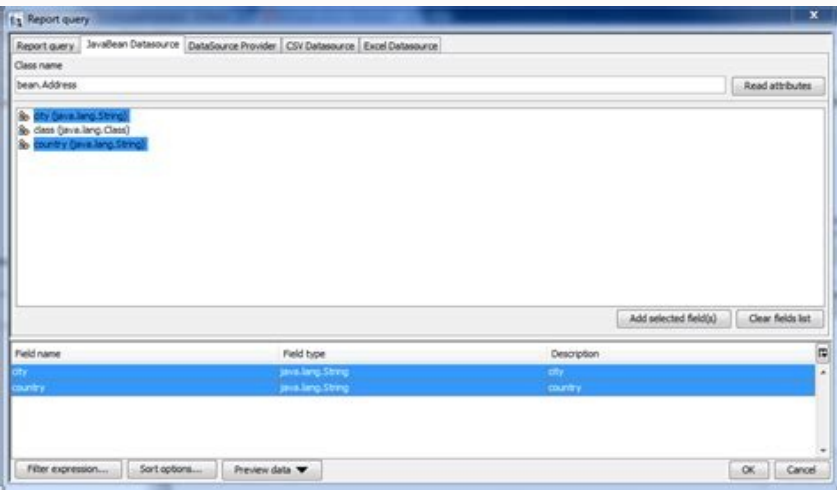


I'm not robot!



How to compile jasper report. How to compile jasper report in java.

In IDE Jaspersoft Studio (JSS) or the older version iReport Designer it is sufficient to press Preview. The JasperReports design file .jrxml will automatically be compiled to .jasper in same folder as .jrxml if no errors are present. Another way is to press "Compile Report" button in JSS or use the context menu "Compile Report" called from Report Inspector in iReport With Apache Ant build tool needs to be correctly installed on your system With Java While it is possible to compile .jrxml files into .jasper files using Java code, this incurs a performance hit that is best avoided by pre-compiling .jrxml files using the IDE. With that in mind, compiling .jrxml files can be accomplished using the JasperCompileManager as follows: JasperCompileManager.compileReportToFile("designFile.jrxml", //Relative or absolute path to the .jrxml file to compile "compiled.jasper"); //Relative or absolute path to the compiled file .jasper With Apache Maven The JasperReports-plugin by Alex Nederlof is a good alternative of abandoned org.codehaus.mojo:jasperreports-maven-plugin plugin. The adding of plugin is a typical, simple procedure: com.alexnerlof.jasperreports-plugin 2.3 process-sources jasper src/main/resources/jrxml \${project.build.directory}/jasper The command for compilation with Maven: mvn jasperreports:jasper The jasper files will be created in \${project.build.directory}/jasper folder (for example, in target/jasper) JasperAssistant is tightly integrated with Eclipse's resource build infrastructure. Reports are compiled in exactly the same way as it is done for regular Java files. This means that you can compile reports by using standard build actions available as shortcuts or from the menu. For more information please read the following Eclipse help section: Workbench User Guide->Tasks->Building Resources Before you can compile your reports you must activate the JasperAssistant's Report Compiler for your project. This is done with the help of a special property page accessible from the project's properties dialog. To open the dialog, right-click on your project and then select option from the context menu. In the opened dialog choose property page:Figure 7.1. Project properties dialog Report Compiler works on any project but it has a special support for Java Projects. Developing reports under a Java Project allows reports to use any class accessible in the project's classpath. This means that if needed, you can develop your report scriptlets and helper classes at the same time you develop your reports. All the build settings configured for the Java Project are taken in consideration. For more information on these setting please read the following Eclipse help section: Java Development User Guide->Tasks->Building. For reports that use scriptlets it is necessary to configure the project's classpath in order to include the JasperReports library. This can be easily done by adding the LIB_JASPERREPORTS variable to the class path of the Java Project. This method also ensures that the correct version of JasperReports library, as required by installed version of JasperAssistant, is used.Figure 7.2. Project classpath Report Compiler performs its task by searching for JasperReports report definition files in your project. By default, all the files with xml and jrxml extensions are considered as potential candidates for valid report definition files. This can increase the compilation time, as you might have other files with xml extension in your project. Although the Report Compiler is very fast, you should consider using jrxml extension for all your reports. If you do so, you can disable the checking of xml files from JasperAssistant's preference page: Window->Preferences->JasperAssistant->Report Compiler All compilation errors produced by the Report Compiler are displayed in the Problems View. Click on an error to locate the report object that is the source of the problem. Compilation errors provide the information necessary to locate the source of the problem. Most of the time, compilation errors are caused by problems in report expressions. For these errors, the message is prefixed with the name of the expression property.

After a successful compilation, a binary file with jasper extension is created in the same directory as compiled file. If needed, it can be opened in a read-only mode and saved back to the XML format. If desired, jasper files can be excluded from Package Explorer and Navigator views by using Filters option available for each of these views.

Additionally, jasper files will be automatically ignored by CVS and SVN plug-ins. RapidClipse - we call it the visual Eclipse - is a complete Eclipse distribution for Rapid Java and Cross-Platform Development. All of the essential tools and plugins you need for developing p... TIBCO Jaspersoft® Studio is editing software for TIBCO JasperReports®. It will help you design and run report templates; build report queries; write complex expressions; layout visual compo... JasperAssistant is a visual report designer for JasperReports, a popular open-source reporting engine. It is built on top of the Eclipse plug-in architecture and its main goal is to assist you in C... EntireJ is a Rapid Application Development (RAD) environment for building highly scalable, enterprise-class applications in RAP/JavaFX. EntireJ uses powerful declarative features so that business d... I have jrxml file, I want to compile this to get .jasper. How do I compile and get that jasper file? This is my Eclipse .classpath and I have all the jars file inside WEB-INF\lib alveole-struts2.jar alveole-tools.jar antlr-2.7.2.jar aopalliance-1.0.jar asm.jar cglib-2.1.3.jar classworlds-1.1.jar commons-beanutils-1.7.0.jar commons-chain-1.2.jar commons-collections-3.2.1.jar commons-digester-2.0.jar commons-fileupload-1.2.1.jar commons-io-1.3.2.jar commons-lang-2.3.jar commons-logging-api-1.1.jar commons-validator-1.3.1.jar dom4j-1.6.1.jar dwr-1.1.1.jar ezmorph-1.0.3.jar freemarker-2.3.16.jar groovy-all-1.7.5.jar hibernate3.jar iText-2.1.7.jar ent/WEB-INF/lib/jasperreports-4.0.2.jar jasperreports-fonts-4.0.2.jar jasperreports-javaflow-4.0.2.jar jdt-compiler-3.1.1.jar json-lib-2.1-jdk15.jar jta.jar juli-6.0.18.jar ldapjdk.jar log4j-1.2.14.jar ognl-3.0.jar org.apache.felix.bundlerepository-1.2.1.jar org.apache.felix.framework-1.4.1.jar org.apache.felix.main-1.4.1.jar org.apache.felix.shell.tui-1.0.2.jar org.apache.felix.shell-1.0.2.jar oro-2.0.8.jar oval-1.31.jar plexus-container-default-1.0-alpha-10.jar plexus-utils-1.2.jar poi-3.7-20101029.jar poi-ooxml-3.7-20101029.jar poi-ooxml-schemas-3.7-20101029.jar sitemesh-2.4.2.jar spring.jar spring-beans-2.5.6.jar spring-context-2.5.6.jar spring-core-2.5.6.jar spring-test-2.5.6.jar spring-web-2.5.6.jar sqldbc4.jar sslext-1.2-0.jar struts2-codebehind-plugin-2.2.1.1.jar struts2-config-browser-plugin-2.2.1.1.jar struts2-convention-plugin-2.2.1.1.jar struts2-core-2.2.1.1.jar struts2-dwr-plugin-2.2.1.1.jar struts2-embeddedjsp-plugin-2.2.1.1.jar struts2-jasperreports-plugin-2.2.1.1.jar struts2-javatemplates-plugin-2.2.1.1.jar struts2-jfreechart-plugin-2.2.1.1.jar struts2-jsf-plugin-2.2.1.1.jar struts2-json-plugin-2.2.1.1.jar struts2-junit-plugin-2.2.1.1.jar struts2-ogni-admin-bundle-2.2.1.1.jar struts2-ogni-demo-bundle-2.2.1.1.jar struts2-ogni-plugin-2.2.1.1.jar struts2-oval-plugin-2.2.1.1.jar struts2-pell-multipart-plugin-2.2.1.1.jar struts2-plexus-plugin-2.2.1.1.jar struts2-portlet-plugin-2.2.1.1.jar struts2-rest-plugin-2.2.1.1.jar struts2-sitegraph-plugin-2.2.1.1.jar struts2-sitemesh-plugin-2.2.1.1.jar struts2-spring-plugin-2.2.1.1.jar struts2-struts1-plugin-2.2.1.1.jar struts2-testng-plugin-2.2.1.1.jar struts2-tiles-plugin-2.2.1.1.jar struts-core-1.3.10.jar testng-5.1-jdk15.jar tiles-api-2.0.6.jar tiles-core-2.0.6.jar tiles-jsp-2.0.6.jar velocity-1.6.3.jar velocity-tools-1.3.jar xalan-2.7.0.jar xbean.jar xpp3_min-1.1.3.4.O.jar xstream-1.2.2.jar xwork-core-2.2.1.1.jar am i missing any important jar file ? We have generated the JasperReport template (JRXML file) in the previous chapter. This file cannot be used directly to generate reports. It has to be compiled to JasperReport' native binary format, called Jasper file. On compiling, we transform JasperDesign object into JasperReport object – Interface net.sf.jasperreports.engine.design.JRCompiler plays a central role during compilation. This interface has several implementations depending on the language used for report expressions, which can be written in Java, Groovy, JavaScript, or any other scripting language as long as compiler implementation can evaluate it at runtime. We can compile JRXML file in the following two ways – Programmatic compilation. Compilation through ANT task. Programmatic Compilation of JRXML JasperReports API offers a facade class net.sf.jasperreports.engine.JasperCompileManager for compiling a JasperReport. This class consists of several public static methods for compiling report templates. The source of templates can be files, input streams and/or, memory objects. The contents of the JRXML file (jasper_report_template.jrxml) are as follows. It is saved at directory C:\tools\jasperreports-5.0.1\test – The following code demonstrates compilation of the above jasper_report_template.jrxml file. package com.tutorialspoint; import net.sf.jasperreports.engine.JRException; import net.sf.jasperreports.engine.JasperCompileManager; public class JasperReportCompile { public static void main(String[] args) { String sourceFileName = "C:/tools/jasperreports-5.0.1/test" + "/jasper_report_template.jrxml"; System.out.println("Compiling Report Design ..."); try { /** * Compile the report to a file name same as * the JRXML file name */ JasperCompileManager.compileReportToFile(sourceFileName); } catch (JRException e) { e.printStackTrace(); } System.out.println("Done compiling!!! ..."); } } Template Compilation As next step, let's save above content in the file C:\tools\jasperreports-5.0.1\test\src\com\tutorialspoint\JasperReportCompile.java and import the baseBuild.xml in the build.xml file as below. The baseBuild.xml already has the compile and run targets – Next, let's open command line window and go to the directory where build.xml is placed. Finally, execute the command ant -Dmain-class = com.tutorialspoint.JasperReportCompile as – C:\tools\jasperreports-5.0.1\test>ant -Dmain-class = com.tutorialspoint.JasperReportCompile Buildfile: C:\tools\jasperreports-5.0.1\test\build.xml compile: [javac] C:\tools\jasperreports-5.0.1\test\baseBuild.xml:27: warning: 'includeantruntime' was not set, defaulting to build.sysclasspath=last;set to false for repeatable builds [javac] Compiling 1 source file to C:\tools\jasperreports-5.0.1\test\classes run: [echo] Runnin class : com.tutorialspoint.JasperReportCompile [java] Compiling Report Design ... [java] log4j:WARN No appenders could be found for logger (net.sf.jasperreports.engine.xml.JRXmlDigesterFactory). [java] log4j:WARN Please initialize the log4j system properly. [java] Done compiling!!!! ... BUILD SUCCESSFUL Total time: 8 seconds As a result of above compilation, you will see that template file jasper_report_template.jasper got generated in C:\tools\jasperreports-5.0.1\test directory. Preview Compiled Report Template The net.sf.jasperreports.view.JasperDesignViewer can be used to preview compiled report templates and JRXML templates. To move further, let's add a new target viewDesign to the above build.xml file, which will allow us to preview the compiled report. Below is the revised build.xml – The import file - baseBuild.xml is picked from chapter Environment Setup and should be placed in the same directory as the build.xml. Let's execute the command – ant (viewDesign is the default target) at command prompt. JasperDesignViewer window opens up displaying the Jasper file as below – Compilation through ANT Task As report template compilation is more like a design time job than a runtime job, JasperReport library has a custom ANT task. For certain situations, when JRXML file is created at runtime, we can't use this ANT task. The custom ANT task is called JRC and is implemented by the class: net.sf.jasperreports.ant.JRAntCompileTask. Its syntax and behavior are very similar to the built-in ANT task. Template Compilation Let's add new target compileReportdesing to our existing build.xml. Here, the source folder is specified using a nested tag with the filesets. The nested source tag allows compiling report templates that are scattered through many different locations and are not grouped under a single root report source folder. Below is the revised build.xml – Next, let's open command prompt and go to the directory where build.xml is placed. Execute the command ant (compileReportdesing is the default target); Output is as follows – C:\tools\jasperreports-5.0.1\test>ant Buildfile: C:\tools\jasperreports-5.0.1\test\build.xml compileReportdesing: [jrc] Compiling 1 report design files. [jrc] log4j:WARN No appenders could be found for logger (net.sf.jasperreports.engine.xml.JRXmlDigesterFactory). [jrc] log4j:WARN Please initialize the log4j system properly. [jrc] log4j:WARN See for more info. [jrc] File : C:\tools\jasperreports-5.0.1\test\jasper_report_template.jrxml ... OK. BUILD SUCCESSFUL Total time: 5 seconds File jasper_report_template.jasper is generated in the file system (in our case C:\tools\jasperreports-5.0.1\test directory). This file is identical to the file generated programmatically by calling the net.sf.jasperreports.engine.JasperCompileManager.compileReportToFile(). We can preview this jasper file, executing ant viewDesign.

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