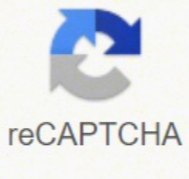




I'm not robot



Next

JUnit Tutorial

JUnit Tutorial

- The testing problems
- The framework of JUnit
- A case study
- JUnit tool
- Practices

• Ok, try if the configuration is ok...Create a new blank report. • The data to print can be retrieved through several ways including multiple JDBC connections, TableModels, JavaBeans, XML, MDX, EJBQL, Hibernate, etc.The main features of iReport • 98% of JasperReports tags supported • Visual designer wysiwyg with tools for draw rectangles, lines, ellipses, textfields fields, charts, subreports... How JasperReports worksHow JasperReports works • This XML source file must be compiled in order to produce a real report. 7 background: This element is used to define the page background for all pages in the reports. Run the report (iReport will ask for save the file before compile it) Our first very simple report • In this session we have created a simple report, saved as XML file, compiled as jasper file, filled with an "EmptyDataSource" and exported in PDF. • iReport is a powerful, intuitive and easy to use visual report builder/designer for JasperReports written in 100% pure java. columnHeader: This band is printed at the beginning of each detail column. • - defines a report section, all of the above elements contain a band element as its only child element. It's possible that in future iReport will support both this libraries through an abstract layer. Installation and configuration • If you have already installed on your machine a JDK (not simply a Java Runtime Environment, but a Java Development Kit) we are ready to start...Installation and configuration • 1. Part III iReport and JasperReports basic conceptsiReport and JasperReports basic concepts • iReport is not useful without a library called JasperReports. • 2. detail: A detail band corresponds to every record that is read by datasource that feeds the report. Summary iReport Preview Design Create report layout .jrxml PDF,XLS,RTF .CSV.TXT.HTML JasperReport Runtime Read Generate output .jrxml Compile to binary format .jasperA typical jrxml file contains the following elements: • - the root element. • - contains the body of the report. Trough Jasperreports, it's able to compile XML to jasper files and "run reports" to fill it using several types of JRDataSource and export the result to PDF,HTML,XLS,CSV,... (*)a jar of this software is already included in the lib directory of iReport distribution, so you have not to download it. Here is an example jrxml file that will generate a simple report displaying the string "Hello World!" Example : jrxml fileCompilejrxml files • jrxml files need to be "compiled" into a binary format that is specific to JasperReports, this can be achieved by calling the compileReport() method on the net.sf.jasperreports.engine.JasperCompileManagerclass. How JasperReports works • JasperReport works in a way similar to a compiler and an interpreter. 8 lastPageFooter: If you want to make the last page footer different then it is possible to use the special last page footer band summary: This band allows you to insert fields concerning total calculations, means, or whatever you want to insert at the end of the report. The export will be done using special classes the implement specific exporters. iReport comes with an own fonts directory automatically added to the classpath.Started iReport...Installation and configuration • 1. pageFooter: This band appears on every page where there is a page header. Look for a file called tools.jar in your JDK and copy it in the lib directory of iReport.If you have Ant installed on your machine, modify the file iReport.bat or iReport.sh to adjust the ant installation path (default is c:\ant under Win32 and /ant under Linux). • Jasper make available a special viewer to display a report preview, designed for swing based traditional java applications.Compilation end export of reports • JasperReports can easily integrated in a Web application as in a java swing based program. The compiled version of the source is named "jasper file" (it ends with .jasper). • There are several overloaded versions of this method, in our example, we will use the one that takes a single String parameter, consult the JasperReport documentation for details on the other versions of the method.Part IV Connections and DatasourcesConnections and Datasources • Data to print can be retrieved in several ways from different places like a database or a XML file. This tool allows users to visually edit complex reports with charts, images, and subreports. • This data is presented to JasperReports always in form of records using a special interface called JRDataSource. 2. • If you want connect to a database, you must provide a JDBC driver (not shipped with iReport). • If you want use TTF Font files installed on your system, add to the classpath your fonts directory. Add to the title band a static text element 3. • JasperReports comes with a good set of implementations of this interface to wrap JDBC ResultSets, TableModels, Collections, Vectors and Arrays of objects, etc... This is not always true. • JasperReports is a powerful open source Java reporting tool that has the ability to deliver rich content onto the screen, to the printer or into PDF, HTML, XLS, CSV and XML files. To supply this records to the jasper engine we need to present it using a special JasperReports specific interface named JRDataSource. 1 JasperReports 2 Jasper Reports JasperReports is a powerful java open source reporting tool JasperReports are defined in an XML file format 3 Jasper Reports JasperReports Reporting engine Various output optionsPDF, HTML, XLS, CSV, XML, RTF, TXT Various data source optionsJDBC, EJB, POJO, Hibernate, XML, extensible... Integrated charting 4 Workflow Create JRXML file Compile JRXML into Jasper templateFill the jasper template to generate the report Export the report Report is printed or displayed on screen 5 Template 6 Title : It is created only once and can be printed on a separate page.pageHeader: The page header appears on all printed pages in the same position defined during the design phase. • - its contents are printed at the bottom of every page in the report. A print can then be exported in many formats like PDF, HTML, XML, XLS, CVS, etc... • 3.Start iReport.bat or iReport.sh.If you don't have Ant installed (only for win32 users), go to the directory noAnt and type:startup.batInstallation and configuration • At the first execution, iReport will create a directory (.ireport) in your home directory. • Its main purpose is to help creating page oriented, ready to print documents in a simple and flexible manner. columnHeader: This band appears at the end of every column. • Before starting to play with iReport, it's important understand what iReport do and why. The user design a report coding it in XML in agreement to tags and attributes defined in a file called JasperReports.dtd(part of JasperReports). In this chapter I'll explain some basic concepts on how JasperReports works, what iReport do using "jasper" itself and why it simplify the live of the user. JasperReports Requirements • JRE • JRE 1.3 or higher • Commons • Jakarta Commons BeanUtils Component (version 1.7 or later) • Jakarta Commons Collections Component (version 2.1 or later) • Jakarta Commons Javaflow (Sandbox version) • Jakarta Commons Logging Component (version 1.0 or later) Requirements • XML • JAXP 1.1 XML Parser • Jakarta Commons Digester Component (version 1.7 or later) • JDBC • JDBC 2.0 Driver • PDF • iText - Free Java-PDF library by Bruno Lowagie and Paulo Soares (version 1.01 or later)JasperReports Requirements • XLS • Jakarta POI (version 2.0 or later) • JExcelApi (version 2.5.7 or later) • Charts • JFreeChart (1.0.0 or later) • JCommon - required by JFreeChart What is iReport ? • iReport born as development tool, but it can be used as an office tool to retrieve and print data stored in a database, without pass through another application. A jasper file is a compiled report source. Our first very simple report • iReport provide to JasperReport users a visual interface to build reports, generate jasper files and test prints. • To better understand as all works, we'll do a test. go to tab external programs • 3. A typical jrxml file • All of the elements are optional, except for the root jasperReport element. go to menu->Tools->Options • 2. When you have designed and compiled your jasper file, you can use the JasperReport library to dynamically fill your report in several environments like a web application (using i.e. java Servlet, but I have successfully used JasperReports for generating PDF reports calling it from a PHP scrip...). A typical jrxml file contains the following elements: • - the root element. It contains the main distribution files (classes and source), some templates for wizard, all additional required jars. Click on the iReport "Run without connection" button After few seconds will appeared our PDF opened with the program that we have set, as signal that all is OK. • At startup all jars in the iReport lib directory are added to the classpath. I'm evaluating JCharts, another OpenSource charting library. set external viewers programsInstallation and configurationFinal test... iReport - System Requirements • Sun JDK 1.4 or greater • Ant (required if you want recompile sources, but strongly recommended to lunch iReport too) • JasperReports 0.4.6 (*) • SAX 2.0 XML Parser (Apache Xerces 1.3 or later recommended) (*) • Jakarta Commons Digester Component (version 1.1 or later) (*) • Jakarta Commons BeanUtils Component (version 1.1 or later) (*) • Jakarta Commons Collections Component (version 1.0 or later) (*) • Jakarta Commons Logging Component (version 1.0 or later) (*) • JDBC 2.0 Driver (A MySql driver is already included) (*) • iText - Free Java-PDF library by Bruno Lowagie and Paulo Soares (*) iReport - System Requirements • Jakarta POI (version 1.5.1 or later) (*) • JFreeChart (version 0.9.8 or later) (*) • Acrobat Reader 5.0 is not required, but strongly recommended. • A datasource + a jasper file = a print. • When we have a jasper file, we need another thing in order to produce a report: we need data. Follow this simple steps: 1. How we'll see, this features will be very useful and easy to use. • Built-in editor with syntax highlighting for write expression • Support for Unicode and non Latin language (russian, chinese, korean,...) • Document structure browser • Integrated compiler and exporter The main features of iReport • Support of all JDBC compliant databases • Support of all kind of JRDataSource • Wizard to create automatically reports • Support for subreports • Save backup • Support for templates • Facilities for fonts Useful JasperReports and iReport related links • JasperReports home page • iReport home page • iText home page The pdf library used by JasperReports iReport Screenshots - Main Frame (1) iReport Screenshots - Main Frame (2)iReport Screenshots - Report preview iReport Screenshots - Charts iReport Screenshots - Crosstab Editors iReport Screenshots - Report properties Part II Installing iReport Installing iReport • iReport comes as a zip archive. • It is entirely written in Java and can be used in a variety of Java enabled applications, including J2EE or Web applications, to generate dynamic content. • Note that for now JFreeChart is used to generate charts. • In fact JasperReports can execute yourself sql queries using a given opened Connection to a database, and use the result to fill the report. This powerful library is one of the most advanced reporting engine available to the Open Source community. Open iReport and create a new empty document. iReport is integrated with leading open source chart libraries for java. Not resizable at runtime. 9 Features It has flexible report layoutIt is capable of presenting data textually or graphically It allows developers to supply data in multiple ways It can accept data from multiple data sources 10 Features It can generate SubreportsIt can capable of exporting reports to a variety of formats JasperReports & iReportPart IGeneral Information about iReportWhat is JasperReports? This can be change. iReport use XML files for configuration.**This files are not compatible with old 0.1.0 properties files***. How JasperReports worksOur first very simple report • iReport can read and modify both jasper XML and jasper files. Using XML, a user define the entire report, describing where place texts, images, lines, rectangles, how to retrieve data, how to make certain calculations to show subtotals, etc... Unzip iReport-x.x.zip and copy the extracted directory where you want. Compilation end export of reports • For a newbie, design and create the jasper file is the hardest work. But not always a JRDataSource is needed to supply data to the report in order to fill it. • If you think to use Chinese Simplified, Chinese traditional, Japanese and Korean characters, you must download the Asian font pack from Adobe at: or use a localized Windows. Here will be stored all configuration files. • - its contents are printed only once at the beginning of the report • - its contents are printed at the beginning of every page in the report. In some cases We could want to generate a report that don't shows dynamic data, but i.e. only static text, but this can be reduced to a report that has only an empty record. It can be used to display images or text.

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