

Setting up a Windward project in IntelliJ

Overview

This Windward Tutorial will cover the basic usage of our Java engine. This includes reading in a template (.docx, .xlsx, and .pptx formats), connecting to a database (MySQL, MS SQL, DB2 and XML) and producing an output file (PDF)

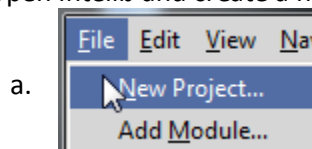
This tutorial is part of the Trebuchet app, included with the Windward Java Engine. It's purpose is to help you become familiar with the Java Engine, and launch you with a high velocity into the world of simple reporting!

Requirements

- Windward Reports Java Engine
 - Available for download at <http://www.windward.net/downloads.php>
 - Installation Tutorial
- IntelliJ IDEA (we use v11.1, but these steps are easily adaptable to other versions)
 - Available for download at <http://www.jetbrains.com/idea/download/index.html>
 - Installation Tutorial
- Java JDK v1.4 or later
 - Available for download at <http://www.oracle.com/technetwork/java/javase/downloads/index.html>
 - Installation Tutorial
- Database connector - dependent on the format of your database
 - DB2
 - MS SQL
 - MySQL

Tutorial

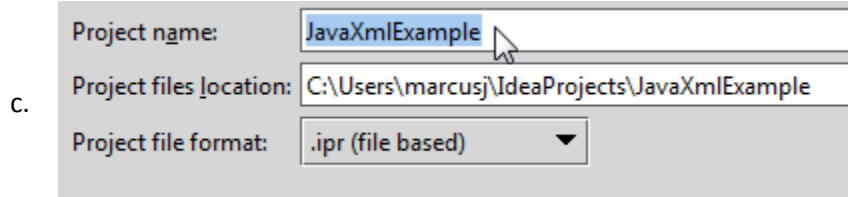
1. Open IntelliJ and create a new project.



First click File > New Project.

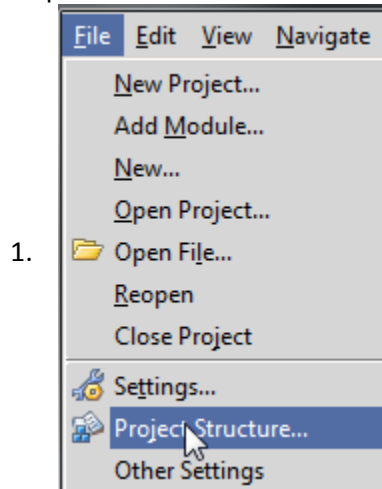


Then choose to create a project from scratch. Next

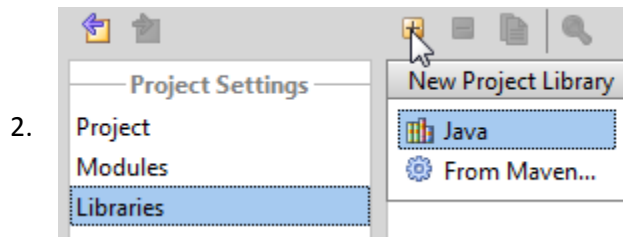


Now name it how you like. The other options are fine as default. Next, and Finish

2. Set up External Libraries



Click File > Project Structure



Click the New Project Library button(yellow with +), choose Java.

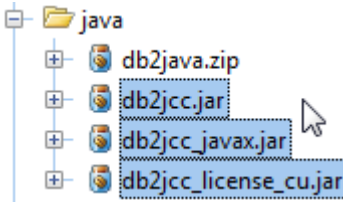
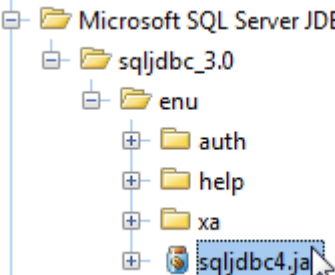
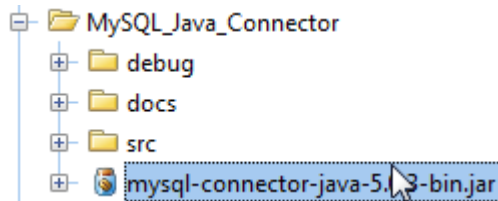


Navigate to the Windward Reports Java Engine directory. By default this is:

C:\Program Files (x86)\Windward Studios\Windward Reports Java Engine

Select the folders "jars" and "javadocs" These folders contain the libraries contained in the Windward Reports engine.

4. Depending on what type of database you plan on using, you may need some additional libraries as well. Refer to the table below for more details.

XML	XML does not require any additional libraries
DB2	 <p>By default, the DB2 java libraries can be found at: C:\Program Files (x86)\IBM\SQLLIB\java See Installation Tutorial</p>
MS SQL	 <p>This folder is wherever you unpacked the MS SQL driver. See Installation Tutorial</p>
MySql	 <p>The location of this folder depends on where you placed it. See Installation Tutorial</p>

3. Write code

- Now you simply need to write the code. The code and its explanation can be found in the JavaEngineBasicsCode documents.
- Note: If you are in a hurry, you can just grab the full source code with comments from the Trebuchet app, by clicking Java, selecting the Basics tab, then clicking "Open Project Folder" button for your database format. Navigate to the "src" folder and copy over the .java file.*

- Run Example - Click Run > Run and from the small secondary menu that pops up, choose the second option, which has your project's name in it. If there are no errors, you should be set to go! Check the "out" folder in your project folder (By default, C:\Users\user\IdeaProjects\projectName\out) for a file called report.pdf and open it. If you want to compare it to the template it was produced from, you can find that