PureCRUD Development Environment Setup Guide

This guide walks you through setting up the **optimal** development environment where everything "just works." However, the PureCRUD Sample Application will mostly likely work fine in other environments and with other versions of the JDK, Maven, Jetty, Intellij or Eclipse.

Install JDK

1. Download latest stable Java SE 7 from here:
   http://www. oracle.com/technetwork/java/javase/downloads/index.html
2. Install to **C:\jdk1.7**
   Note: PureCRUD has also been extensively tested against Java SE 6.

Install Maven

1. Download latest stable Maven 3 from here: http://maven.apache.org/download.html
2. Unzip to **C:\maven**

Set up Environment Variables

1. MAVEN_HOME= C:\maven
2. M2_HOME= C:\maven
3. JAVA_HOME=C:\jdk1.7
4. Add to PATH: %MAVEN_HOME%\bin;%JAVA_HOME%\bin

Install Jetty

1. Download latest stable Jetty 7 from here: http://download.eclipse.org/jetty/
2. Unzip to C:\jetty
3. Optionally, change the port number in **C:\jetty\etc\jetty.xml** like so:
   `<Property name="jetty.port" default="7001"/>`
   Note: using port 7001 allows swapping Jetty for Weblogic during development without changing the URL. In corporate environments, it is good to test the application periodically against whatever application server will be used in production.

Install Intellij

1. Download the latest Ultimate version from here:
   http://www.jetbrains.com/idea/download/index.html

2. Optionally, go to **File:Import Settings** and import **intellij_settings.jar** downloaded from here: https://github.com/juanosuna/purecrud-sample/blob/master/extra/intellij_settings.jar

   Note: this is an optional step for novice Intellij users who want to make sure everything in Intellij "just works."

Install PureCRUD Sample Application

1. Go to project page: https://github.com/juanosuna/purecrud-sample
2. Click **Downloads** button to download project as a zip. Unzip to **C:\Projects\purecrud-sample**.
3. Open DOS window in the root of the project and type following commands:
   - **mvn clean install**
   - **mvn jetty:run**

     Note: running these commands for the first time could take 10-15 minutes to download all the dependencies. Not all downloaded dependencies are actually used in the project. Maven just aggressively caches libraries in ~/.m2/repository.
4. Try the application URL: http://localhost:7001/sample/app

Install and Configure SQuirreL SQL Client

SQuirreL SQL is a free tool that is capable of reading H2 database files, which PureCRUD uses as the lightweight database for development. This is useful for debugging.

1. Download and following instructions here: http://www.squirrelsql.org/#installation
2. Grab the JDBC URL from **database.dev.properties** in the project and paste into the SQuirreL dialog box for configuring the database connection:

SQuirreL SQL Client Version 3.2.1

File Drivers Aliases Plugins Session Windows Help

Connect to: Sample   Active Session: 2 - Sample (SAM...

× ⬚ 1 - Sample (SAMPLE) as sample   × ⬚ 2 - Sample (SAMPLE) as sample

Aliases

Sample

Catalog: SAMPLE

Objects   SQL   Hibernate

...vileges   Row IDs   Versions
...ns   Primary Key   Exported Keys

Change Alias: Sample

Change Alias: Sample

Name:	Sample
Driver:	✓ H2 Embedded	New
URL:	jdbc:h2:~/sample;FILE_LOCK=SOCKET
User Name:	sample
Password:	

☑ Auto logon   ☑ Connect at Startup

⬚ Properties

Warning - Passwords are saved in clear text

OK   Close   Test

CREATED_BY

system
system
system
system
system
system
system
system
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system
system
system
system
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system
system
system
system
system
system

18	2011-08-10 14:44:35.334	system
19	2011-08-10 14:44:35.424	system
20	2011-08-10 14:44:35.494	system

STATE
USER
TABLE LINK

/Sample/SAMPLE/SAMPLE/TABLE/ACCOUNT   1,1 / 1

Please try out the Tools popup by hitting ctrl+t in the SQL Editor. Do it three times to stop this message.
Please try out the Tools popup by hitting ctrl+t in the SQL Editor. Do it three times to stop this message.

Logs: Errors 0, Warnings 0, Infos 30   61 of 109 MB   0   3:21:12 PM CEST