Code Setup Guide

Following components are used for development of NumberSorting.ear:

- JDK 1.8_91

- Eclipse as IDE

- Maven 3.0.5 for build

- AngularJs 1.4 as javascript framework

- Spring 4.1.3 as middleware framework

- Oracle 11g as database

- JBoss 6.3.0 EAP as application server

- Log4j 1.2.16 as logging framework

Please follow following steps to setup development environment:

1. Create a database in oracle database server and execute database script (File name:

   NumberSortingDBScript.sql).

2. Setup maven and configure repository on development machine to create build.

3. Place **ojdbc14-10.2.0.2.jar** under group id **cn.guoyukun.jdb** in maven repo.

4. Setup eclipse as IDE and configure maven (Window -> Preferences -> Maven -> User Settings)

   repository in it.

5. Import the projects (NumberSorting and NumberSortingEAR) along with parent pom file in

   eclipse as **Existing Project into Workspace**.

6. Generate maven build using parent pom (command: mvn –X clean install). EAR will be generated

   under group id NumberSortingEAR in maven repo.

7. Setup JBoss 6.3.0 EAP as application server using standalone mode and create management user

   by executing **add-user.bat** file present in **%JBOSS_HOME%\bin** directory.

8. Place **log4jConfig.xml** in **%JBOSS_HOME%\bin** directory.

9. Place **numbersorting** folder in **%JBOSS_HOME%\modules\system\layers\base\com** directory.

10. Place **oracle** folder in **%JBOSS_HOME%\modules\system\layers\base\org** directory.

11. Edit **standalone.xml** file placed in **%JBOSS_HOME%\standalone\configuration** to include the following entry under drivers tag

        <driver name="oracle" module="org.oracle">

                <driver-class>oracle.jdbc.OracleDriver</driver-class>

        </driver>

12. Restart the server and login into admin console using management user.

13. Create and test data source using **oracle** as driver and **java:jboss/NumberSorting** as JNDI name.

14. Deploy NumberSortingEAR.