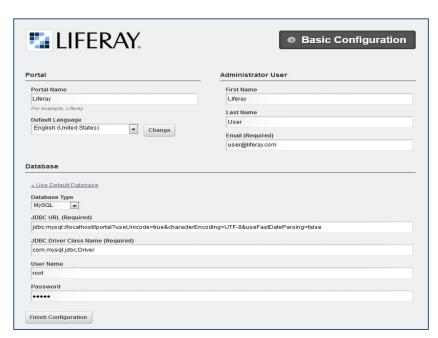# Liferay Directory Manager Plugin 1.0 Setup Guide

Liferay Directory Manager plugin integrates Joget Workflow users with Liferay users. After installation and setup, Liferay users will be able to seamlessly participate in all Joget Workfow instances.

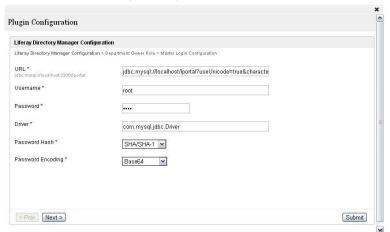| Joget Workflow	Version 3 & above
Liferay Portal	Version 6.1 Community & Enterprise Edition

1. Liferay Portal 6.1 Installation
    a) Download Liferay Portal from www.liferay.com/downloads/liferay-portal/available-releases
    b) Extract the archive into a directory, e.g. : **d:/liferay-portal-6.1.1-ce-ga2**
    c) Make sure the server port for Liferay & Joget are different, in this example, liferay is using port 8080, and Joget is using port 8087. This can be set in **server.xml** in both Tomcat 'conf' folder.
    d) Start the Liferay's Tomcat Server by running **[liferay folder]/tomcat-7.0.27/bin/startup.bat**. Once it started, it will launch the Liferay web application.
    e) For the first time, it will ask for the administrator setup, as shown in picture below.

f) Please remember the Administrator User section, we will need the Email account, in this example is 'user@liferay.com' as Master User in Joget Liferay Directory Manager Plugin setup.

g) For this setup, we use MySQL Database. So, we have to create a database in our MySQL server, in this example the database name is **lportal** and make sure the database password is not empty password, because in Liferay Directory Plugin Setup requires database password as mandatory field and cannot be empty.

h) Click button '**Finish Configuration**'. It will automatically create all tables for Liferay in the **lportal** database.

2. Installing the Liferay Directory Manager Plugin on Joget Workflow
   a) Login as Administrator to Joget Workflow WebConsole
   b) Go to **System Settings**, select **Manage Plugins**.
   c) Click **Upload Plugin** button and choose binary file of Liferay Directory Manager plugin, then click **Upload** button.

3. Liferay Directory Manager Plugin Setup in Joget Workflow
   a) Login as administrator to Joget Workflow WebConsole, then go to **System Settings** > select **Directory Manager Settings**.
   b) Select 'Liferay Directory Manager -1.0-SNAPSHOT' as Directory Manager Implementation, then click Configure Plugin.
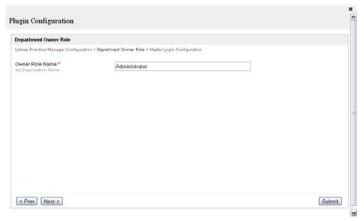

   c) Key in the following :
      - URL   : Liferay Database URL as defined in step 1.g

- Username : Liferay Database Username (1.g)
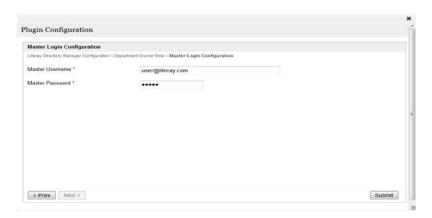- Password : Liferay Database Password (1.g)
- Driver : Liferay Database Driver, in this example we use MySQL JDBC Driver
- Password Hash : SHA/SHA-1 (Liferay default)
- Password Encoding : Base64 (Liferay default)

d) Click Next, to key in Owner Role Name

e) Key in 'Administrator' as Owner Role Name. This can be filled based on the Roles that available in Liferay Portal

f) Click Next, key in Master Login Configuration.

g) Key in the following :
- Master Username : Username that used as Administrator User (see step 1.e & 1.f)
- Master Password : Password as keyed in step 1.i

h) Click Submit.

i) Logout from Joget WebConsole, then login again using Liferay User or using Administrator user.

j) We can see the Liferay directory integration in Setup Organization & Users page in Joget Console.