



# New in Liferay 6: Administration and Setup

On screen User Interface

Account

Manage Places

Control Panel

Configuration Files – Setup (covered in Training slides)

Portal.Properties

Portlet-ext.xml

Hot Config and Data Handling – Decrease Maintenance Time

Data Sources (DS)

Custom-Keys

Data Administration

Data Sync

Data Status

Rules and Services

Action-Page Customization (Example: Email Verification)



# Robust Development Platform

## A new and faster ways to extend

### Improved User Interface

### Alloy UI on Liferay 6.0



## 5 Why did we take this path?

What about my framework of choice?

- Completely compatible with your desired framework (IceFaces, Vaadin, GWT, jQuery, dojo, etc)
- Offers third-party frameworks an easier way to integrate with Liferay
- Provides a path to allowing swapping of underlying library

# A new UI and Set of Controls

ITS, Inc.



Welcome

[liferay.com](#) > Welcome

**Sign In**

**Email Address**  
test@liferay.com

**Password**  
....

Remember Me

Sign In

[OpenID](#) [Create Account](#)  
[Forgot Password](#)

**Hello World**

Welcome to Liferay Portal Community Edition 6.0.0 CE (Bunyan / Build 6000 / January 31, 2010).

**Add** Manage  Toggle Edit Controls **Go To**

- Page
- Applications
- Web Content Display
- Asset Publisher
- Search
- Navigation
- More...

You are signed in as Test Test.

**Hello World**

Welcome to Liferay Portal Community Edition 6.0.0 CE (Bunyan / Build 6000 / January 31, 2010).



# A new Set of Tools



## Calendar

You can select from a localized calendar, including multiple dates



## Paginator

Easily paginate through a data set



## Tooltips

Give users contextual information or content, such as help text or images



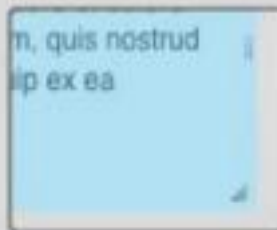
## Ratings

Provide the ability to rate anything



## CSS Forms

A CSS Framework for consistently styling HTML forms



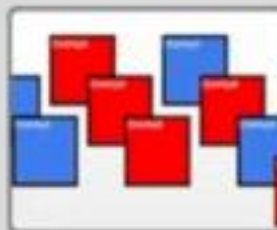
## Resize

Resize practically any element on a page



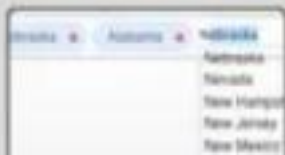
## CSS Layout

A CSS Framework for robust, fluid-width layouts



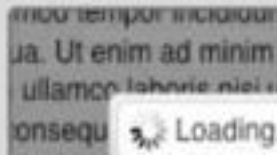
## Overlay Manager

Create arbitrary collections of overlays that can be managed in groups



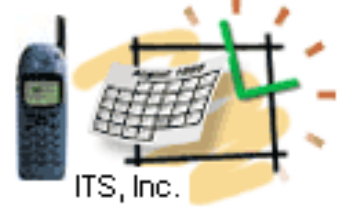
## TextBox List

Display users choices to them as graphic choices



## Loading Mask

Allows you to indicate to a user that content is still waiting to be loaded



# Content Management Interoperability Services (CMIS)

<http://www.liferay.com/web/jonas.yuan/blog/-/blogs/4426520/maximized>

**Alfresco, Day Software, Dennis Hamilton, EMC, FatWire, IBM, Microsoft, Open Text, Oracle and SAP have joined forces to propose CMIS.**

**From 6.0, Liferay provides CMIS hook to support CMIS (version 1.0). Refer to CMIS and Database Migration.**

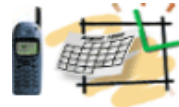
**Java/Liferay Questions: [jeff\\_zhuk@yahoo.com](mailto:jeff_zhuk@yahoo.com)**



## Liferay Setup

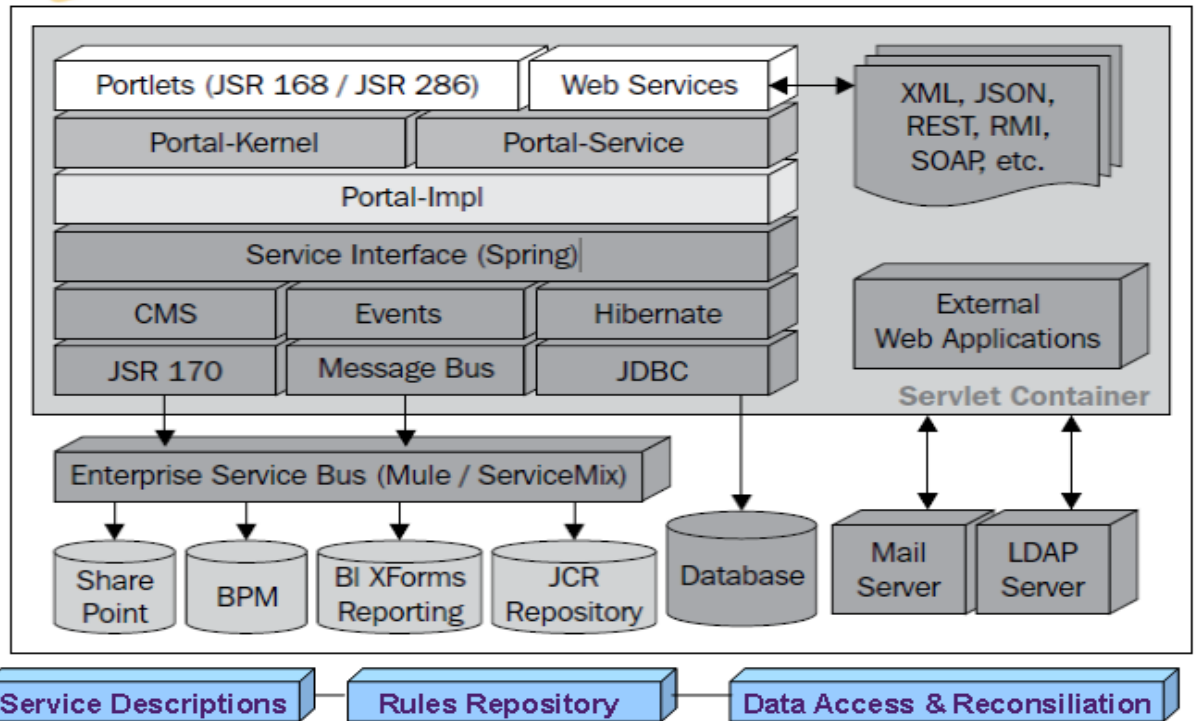
- Repetition:
- Web Applications and Model View Controller (MVC) Design Pattern (CGI, Model 1, Model 2)

Web Applications Frameworks (Struts, Spring, Hibernate, Data Service Semantic Frameworks)



## Liferay Portal – SOA platform

- Liferay Setup:
- Liferay-Tomcat bundle
- MySQL DB Install
- EXT Environment



Complementary Semantics (DataService) Frameworks: Data, Services, Rules & Scenarios



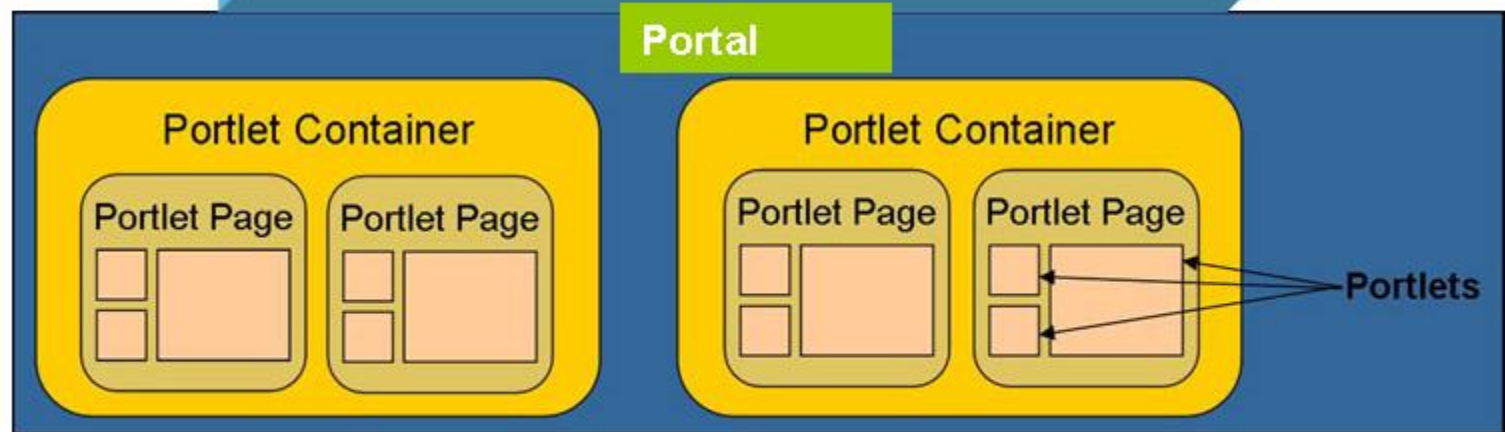
# Web Portal

User Management

Content Management

Search

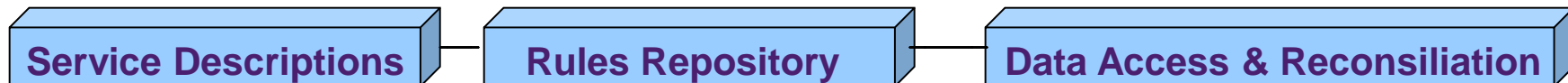
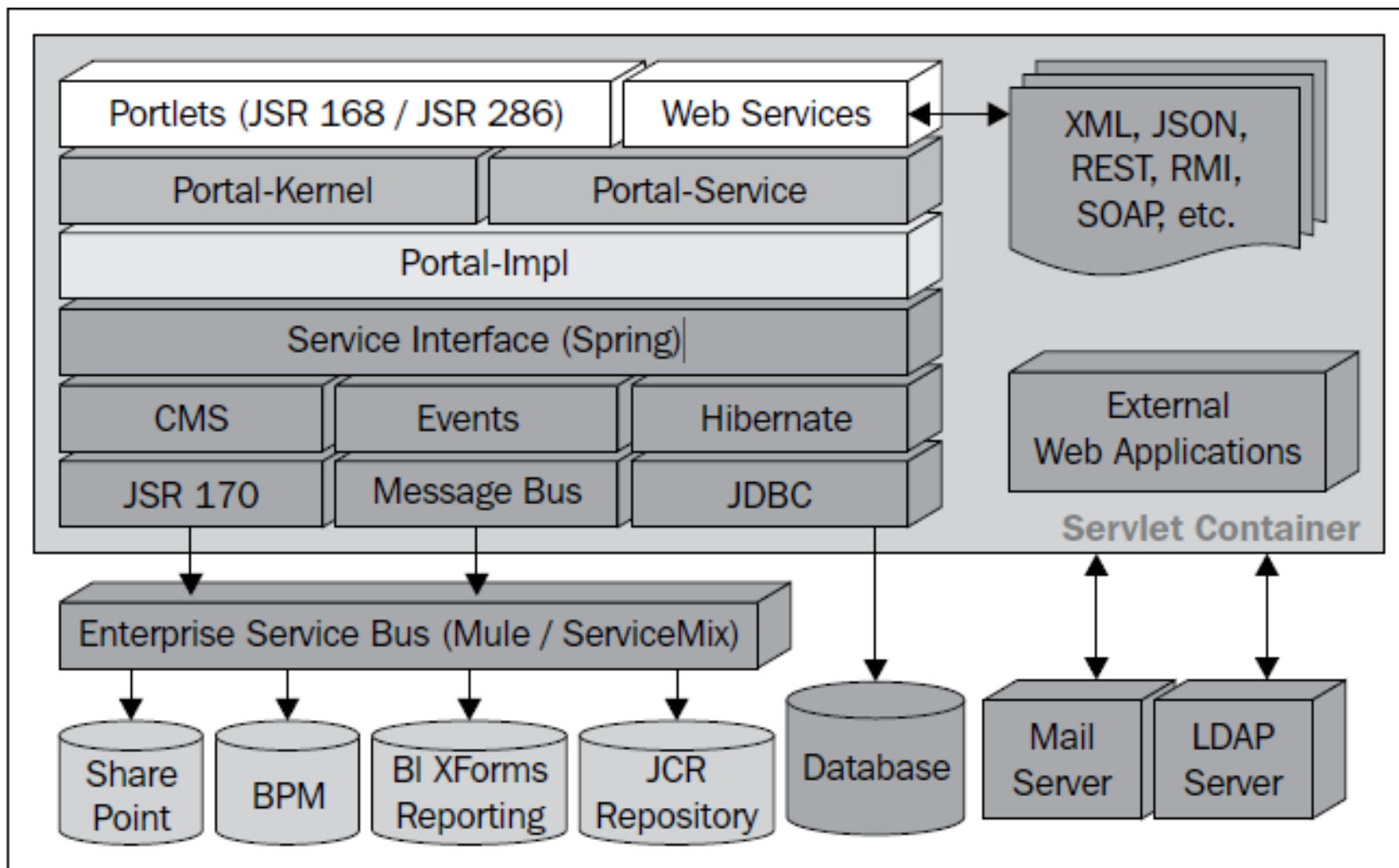
## Portal and Portlet Management



### Benefits:

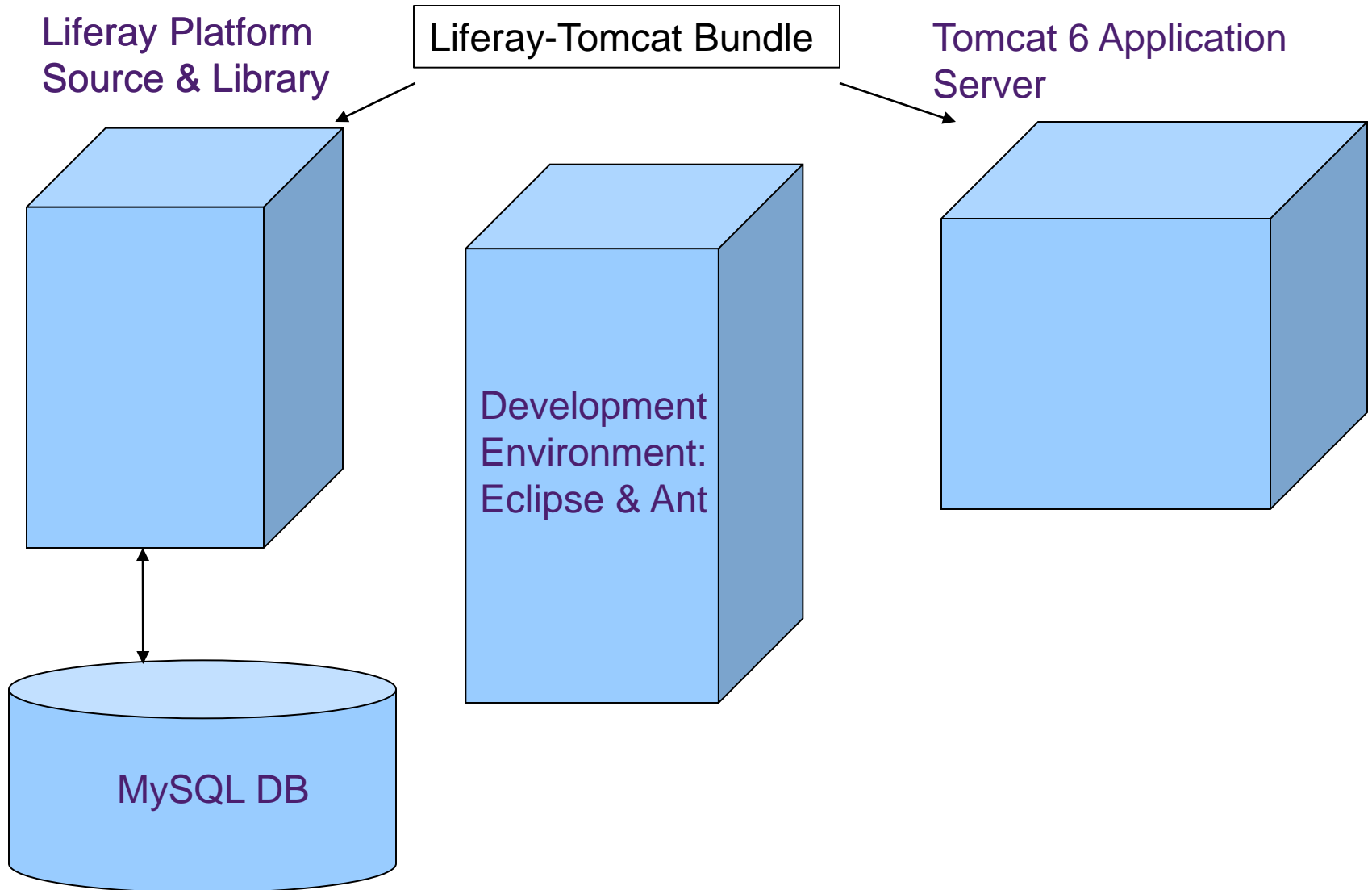
- Pre-built container and components
- The standard way to integrate new services

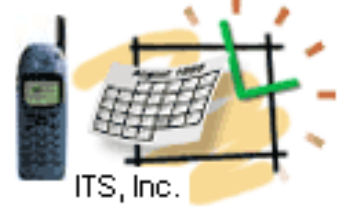
# Liferay Portal – SOA platform





## Basic Components





## Liferay-Tomcat Bundle

Download the Liferay-Tomcat bundle as a zip file:

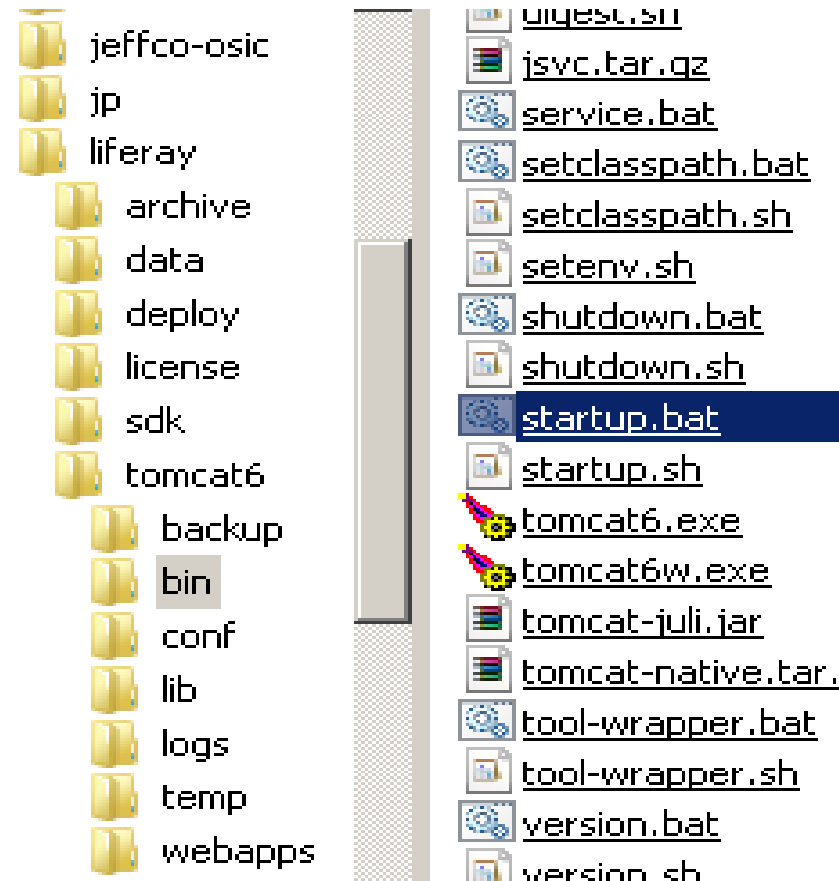
<http://10.2.147.35:8080/share/liferay-portal-tomcat-6.0-5.2.3.zip>

Unzip into your C: drive

Rename liferay-portal-5.2.3 to liferay

Rename tomcat-6.0.18 to tomcat6

Start liferay/tomcat6/bin/startup.bat





## Setup MySQL DB Server

### 1. Get the latest version of MySQL Community Server (Free)

<http://dev.mysql.com/downloads/>

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Important Platform Support Updates »

MySQL Community Server

Current Release (Recommended)

MySQL 5.1—Generally Available (GA) release for production use





## Install MySQL DB Server

### 2. Install MySQL Server (follow installation instructions)

<http://dev.mysql.com/get/Downloads/MySQL-5.1/mysql-5.1.42-win32.msi/from/pick>

You are downloading:

`mysql-5.1.42-win32.msi`

During the install, invoke the Config and set  
Password = train

Please take the time to let us know about you.

If this is the first time you have downloaded from us, you will be sent a password to enable you to log int sites, including forums and bugs.

If you already have a MySQL.com account, save time by logging in now.

#### Returning Users

*Save time by logging in*

Email:

Password:

Forgot your password?

Login

#### New Users

Proceed with registration

Proceed



## Explore the database with MySQL GUI tools:

MySQL GUI Tools Overview:

<http://dev.mysql.com/downloads/gui-tools/5.0.html>

Download:

<http://dev.mysql.com/get/Downloads/MySQLGUITools/mysql-gui-tools-5.0-r17-win32.msi/from/pick#mirrors>

MySql Administrator Doc:

<http://dev.mysql.com/doc/administrator/en/index.html>

**MySQL Query Browser Doc:**

<http://dev.mysql.com/doc/query-browser/en/index.html>

MySQL Migration (from various DB to MySQL) Toolkit Doc:

<http://dev.mysql.com/doc/migration-toolkit/en/index.html>



## Customize the Liferay Setting

Modify **setenv.bat** in the **\$TOMCAT/bin** to allow your JDK to execute your code

I noticed that some of my Java classes produced the "Unsupported version" errors. It appears that the default Liferay setting (in 5.2.3) picks up the JRE from the directory built-in the liferay installation package (JRE 5) instead of the JDK installed on your PC.

Here are the changes in settings to prevent this behavior.

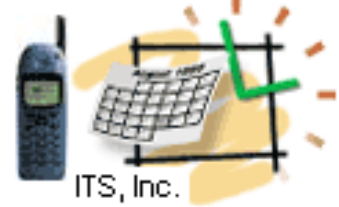
Setup **JAVA\_HOME** in the environment variables to point to the JDK directory on your machine, for example, c:/jdk

Setup **JRE\_HOME** in the environment variables to point to the JRE directory on your machine, for example, c:/jdk/jre

Open the **setenv.bat** file in the \$liferay/\$tomcat/bin directory and delete the settings of JAVA\_HOME and JRE\_HOME; delete everything till "set JAVA\_OPTS...", so this file will start with "set JAVA\_OPTS"; Replace the timezone "GMT" with "MST"

Save the **setenv.bat**, delete the **JRE5** from the Liferay install

Run **\$liferay/\$tomcat/bin/startup.bat** again to make sure it works!



## Let Liferay work with the DB

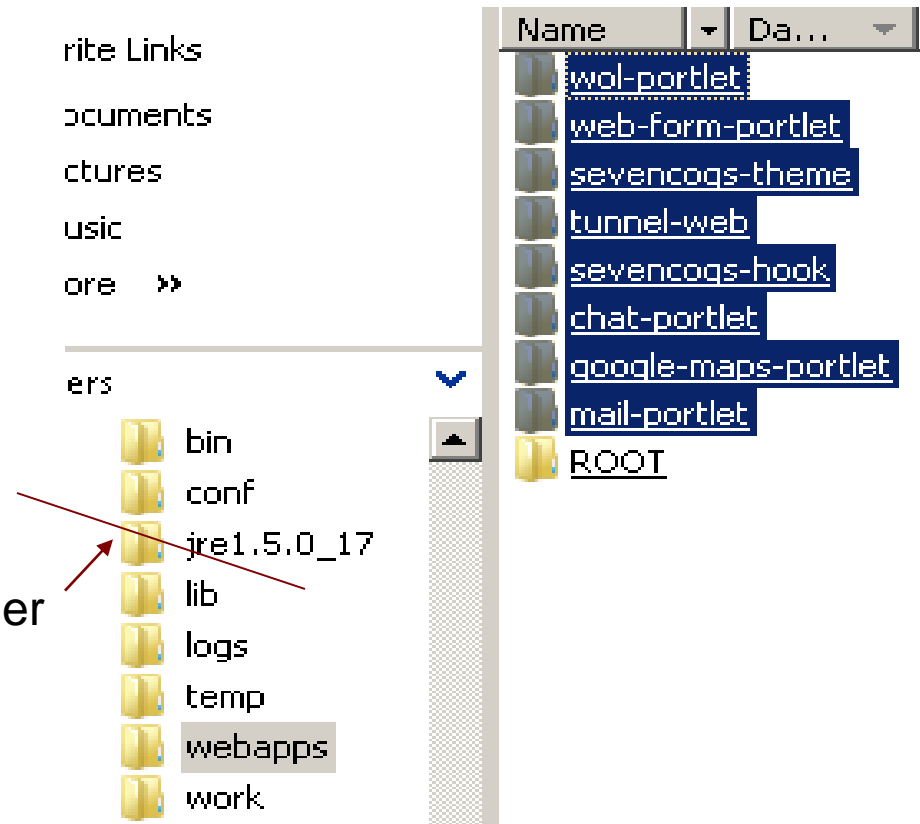
Original setup allows Liferay to use in-memory data for demo purposes

In real life you'll need to connect Liferay with the Database

Liferay can use any database but its choice is MySQL Open Source DB

To allow Liferay to use the MySQL DB:

- Create the **c:\liferay\archive** - folder
- Go to **C:\liferay\tomcat6\webapps**
- Move all the folders except the **ROOT** From the **webapps** folder Into the **c:\liferay\archive** folder
- Check again: you must delete this JRE folder From the c:\liferay\tomcat6





# Configure Email Communications

Open the file:

**\$liferay/\$tomcat/conf/Catalina/localhost/ROOT.xml**

Add the following entry for your email communications:

```
<Resource name="mail/MailSession" auth="Container"
type="javax.mail.Session"
mail.imap.host="imap.gmail.com" mail.imap.port="993"
mail.pop.host="pop.gmail.com" mail.store.protocol="imap"
mail.transport.protocol="smtp" mail.smtp.host="smtp.gmail.com"
mail.smtp.port="465" mail.smtp.auth="true"
mail.smtp.starttls.enable="true"
mail.smtp.user="{username}" password="{password}"
mail.smtp.socketFactory.class="javax.net.ssl.SSLSocketFactory"
/>
```



# Connect to Email and DB

Open a new text file and save the following content into the file:

```
$liferay/$tomcat/webapps/ROOT/classes/portal-ext.properties
```

```
##### MySQL
```

```
jdbc.default.driverClassName=com.mysql.jdbc.Driver
```

```
jdbc.default.url=jdbc:mysql://localhost/lportal?useUnicode=true&  
characterEncoding=UTF-8&useFastDateParsing=false
```

```
jdbc.default.username=${username}
```

```
jdbc.default.password=${password}
```

```
##### email
```

```
mail.session.jndi.name=mail/MailSession
```

## Start DB or better Make MySQL a Service



Start the MySQL Query Browser  
(downloaded from the MySQL GUI  
Tools)

password=*train*

(Liferay will populate the “lportal”  
schema on the first start)

MySQL  
Query Browser

Connect to MySQL Server Instance

Stored Connection:

Server Host:  Port:

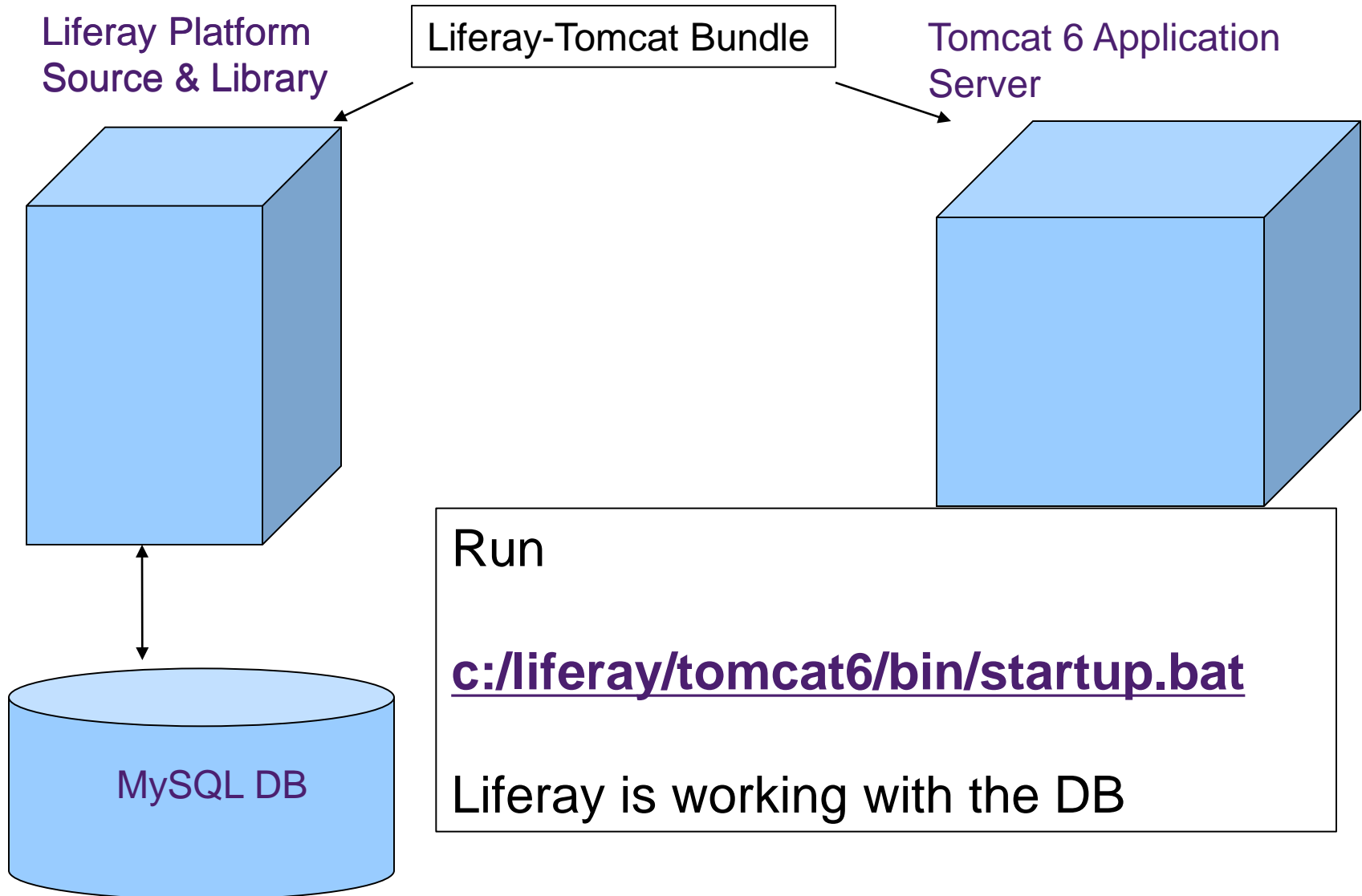
Username:

Password:

Default Schema:



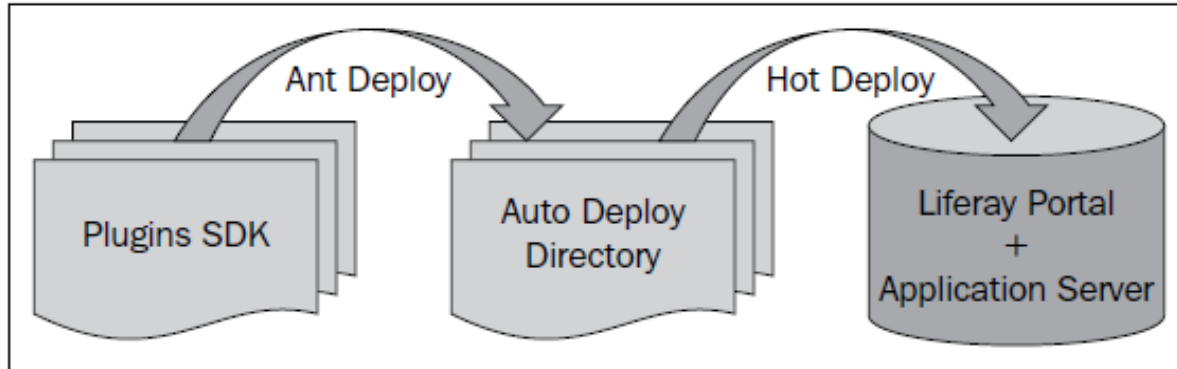
## Basic Components



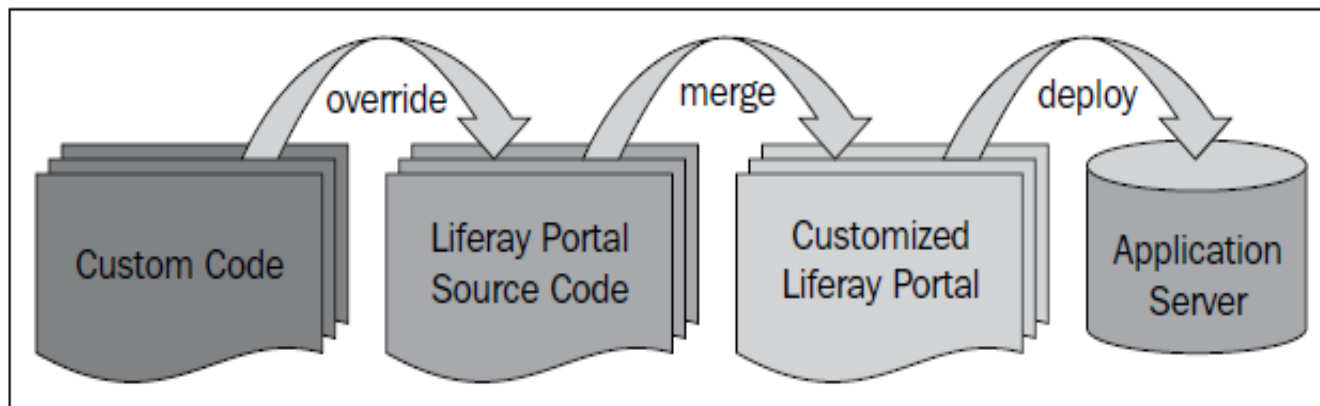


# Plugins SDK and Extension Environment

## Plugins SDK



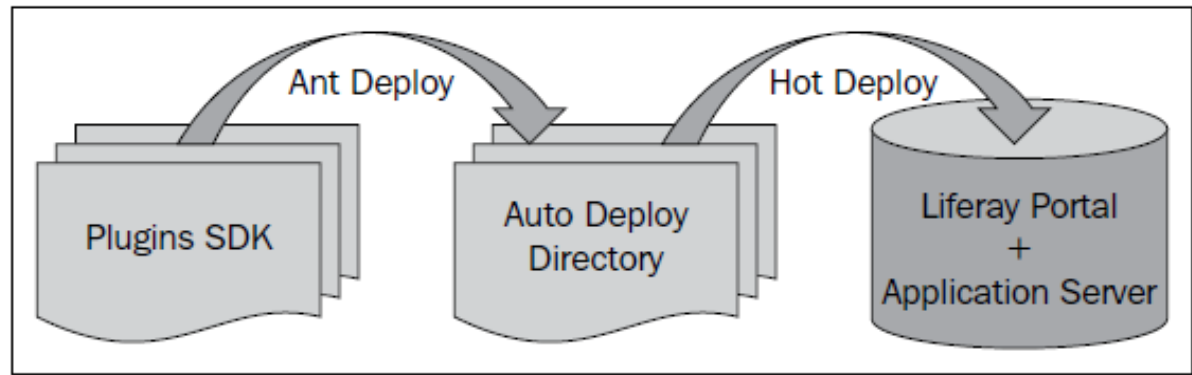
## EXT Environment





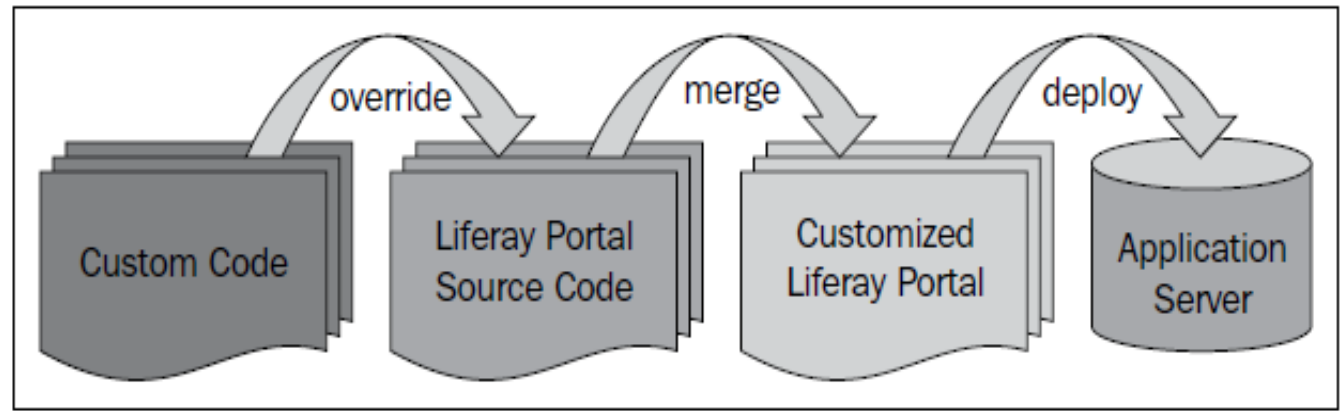
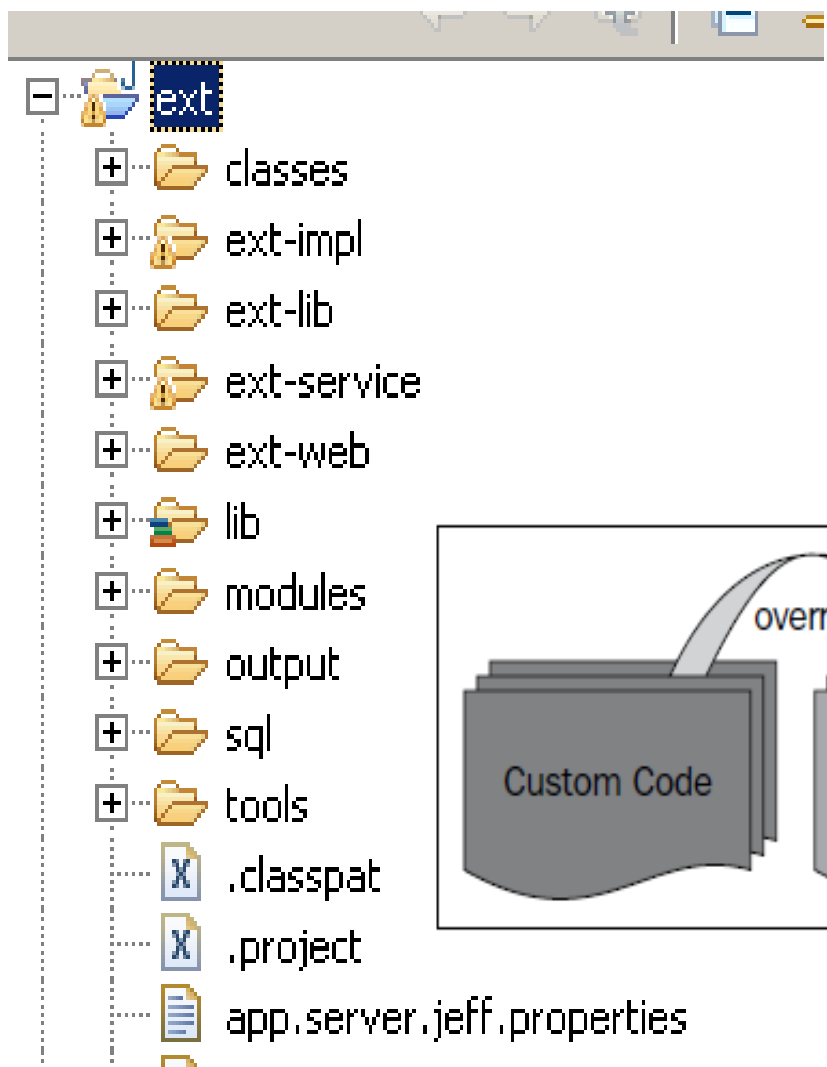
# Plugins SDK

- sdk
  - clients
  - dist
  - hooks
  - + layouttp
  - lib
  - misc
  - portlets
    - + bcd-portlet
    - + dao-portlet
    - + newportlet-portlet
    - + osicdao-portlet
    - + portlet.zip
  - + themes
  - + tools





# EXT Environment





# Portal and Portlets

## JSR 286

(Java Specification Request)

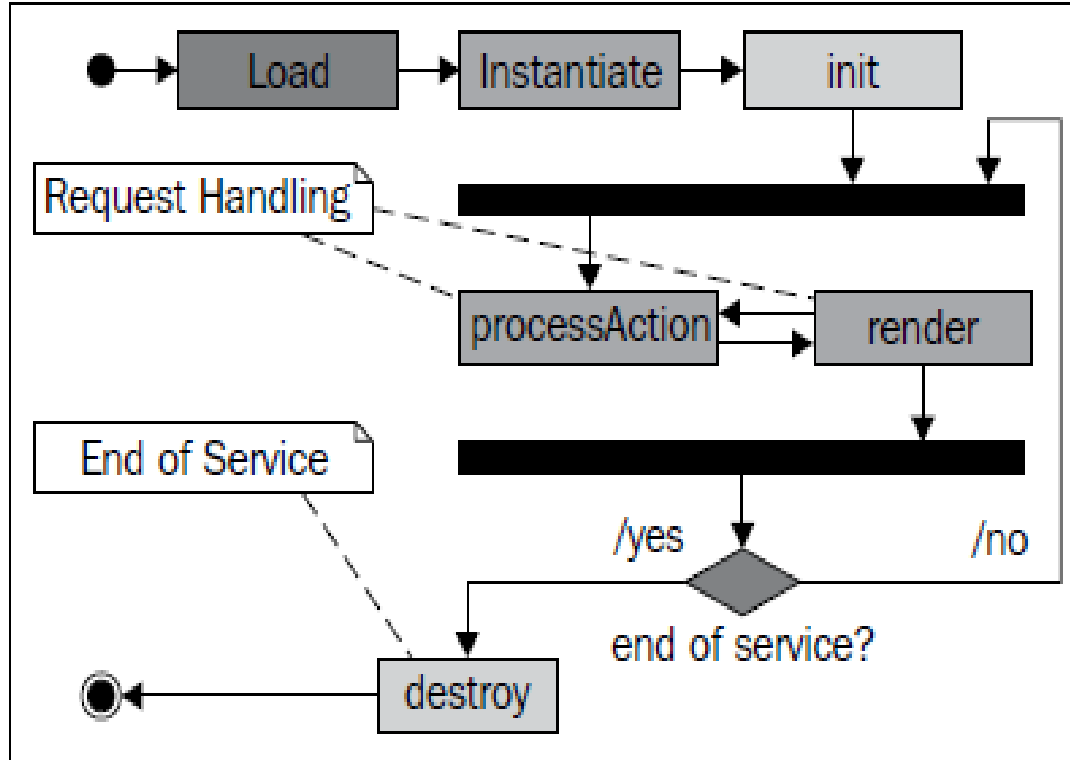


A Portlet is an application that presents a fragment of a portal page

A Portlet Container assembles the portlets into a portal page



# Portlet Life-Cycle



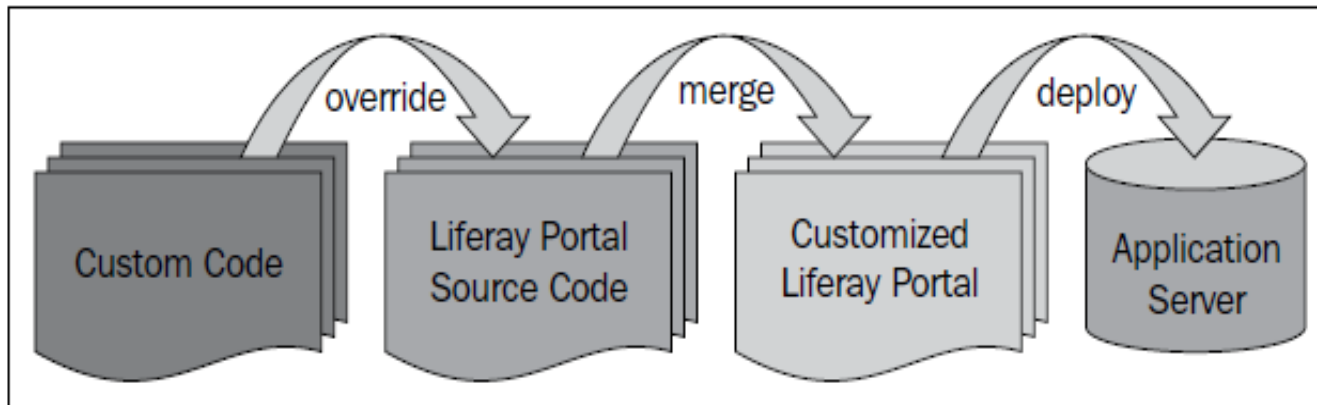


## EXT Environment

### What is EXT?

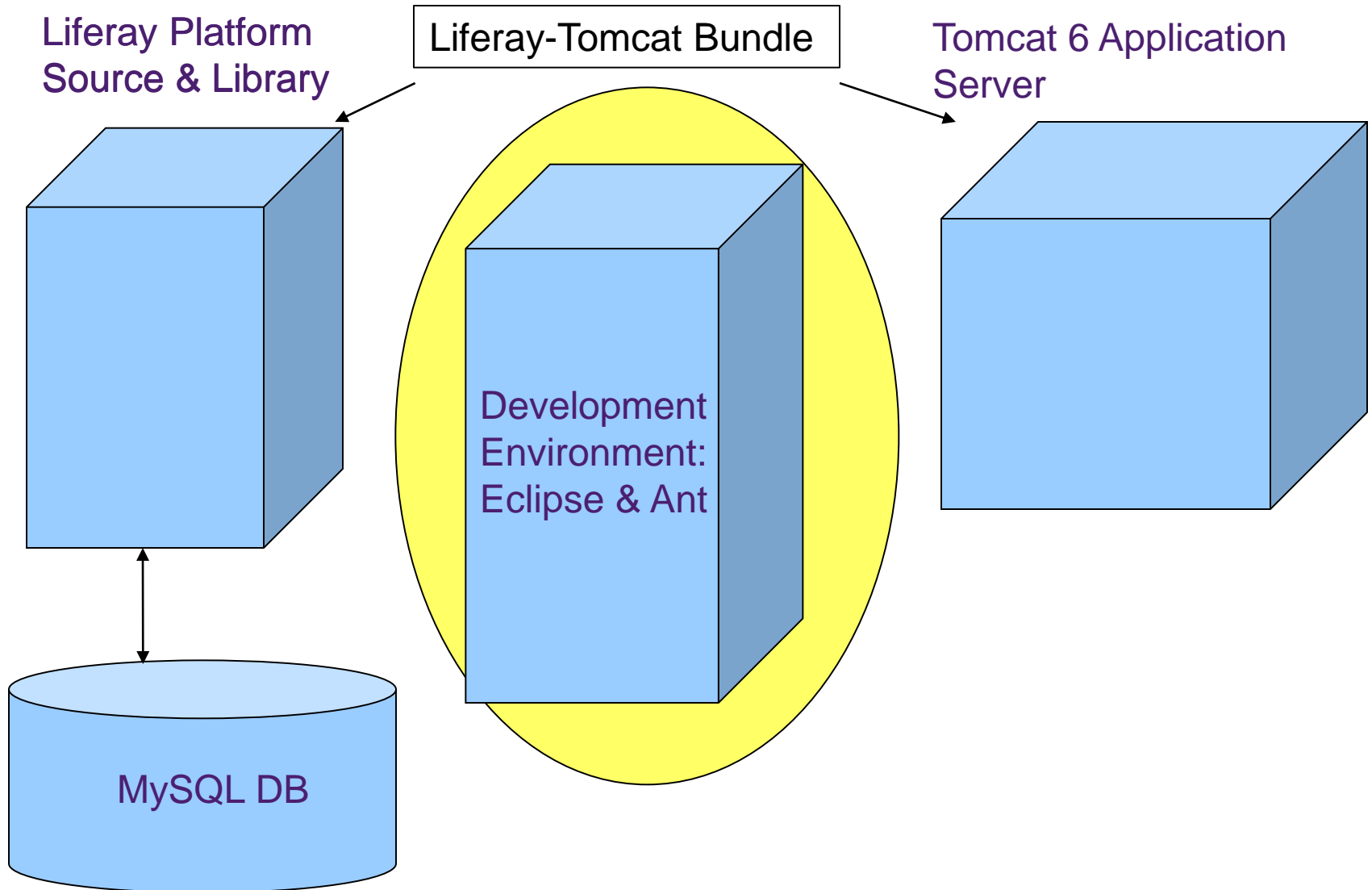
Ext is a wrapper for Liferay portal core source directories (that is, ext-impl/, ext-service/, and ext-web/).

EXT allows the users to develop on top of Liferay source





## Basic Components





## Install Ant and establish the workspace in Eclipse

Download and Install Ant from:

<http://ant.apache.org>

- set the **ANT\_HOME** system variable

For example, **c:\tools\ant**  
(similar as **JAVA\_HOME** )

- add to the **PATH** variable the location of **ant\bin**  
For example, **c:\tools\ant\bin**

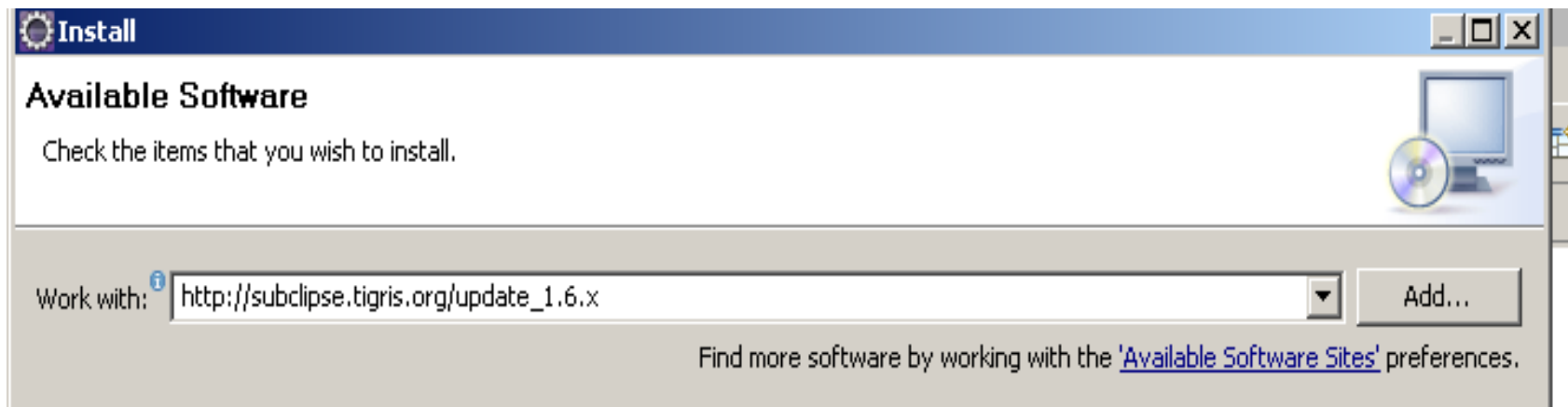
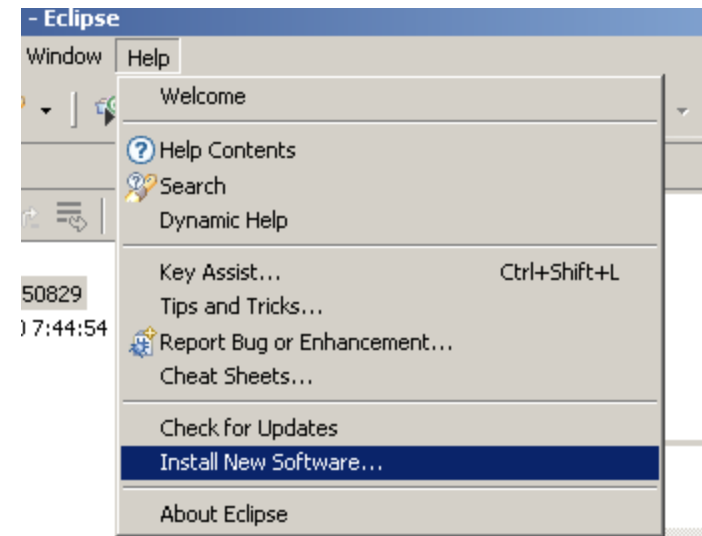
Start Eclipse and create a new workspace:

<c:\liferay\workspace>



## Install Subclipse (Subversion)

1. Open in Eclipse the Help – Install New Software window
2. Copy & paste the URL below for the update  
[http://subclipse.tigris.org/update\\_1.6.x](http://subclipse.tigris.org/update_1.6.x)
3. Update Eclipse with this new plugin





Use the Subversion to get the Latest (Stable) Code from Liferay

After installation, open the Subclipse:

1. From the **Window** menu, select **Open Perspectives**.
2. Click on **Other...**
3. Select **SVN Repository Exploring**, and then click on the button **OK**.
4. Right-click on the **SVN Repositories** view.
5. Select **New** and the **Repository Location...**
6. Provide input as `svn://svn.liferay.com/repos/public` and click on **Finish**.

User Name = “**guest**” (Leave the **password** field empty)

Expand the plugins and portal folders to see Liferay portal source code



## Download and unzip Tomcat Plugin

Download the tomcatPlugin.zip from:

<http://10.2.147.35:8080/share/tomcatPlugin.zip>

Unzip its content into the folder:

<c:\eclipse\dropins>

**Restart Eclipse and see the new Tomcat controls icons**

