



paoding-rose

人人网、糯米网释出的、开源的高效Java web开发框架，是我们对技术社区的强力贡献，请您欣赏。

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Rose_Guide_Getting_Started

Featured

Updated Feb 15, 2012 by [czh...@gmail.com](#)

第一支程序

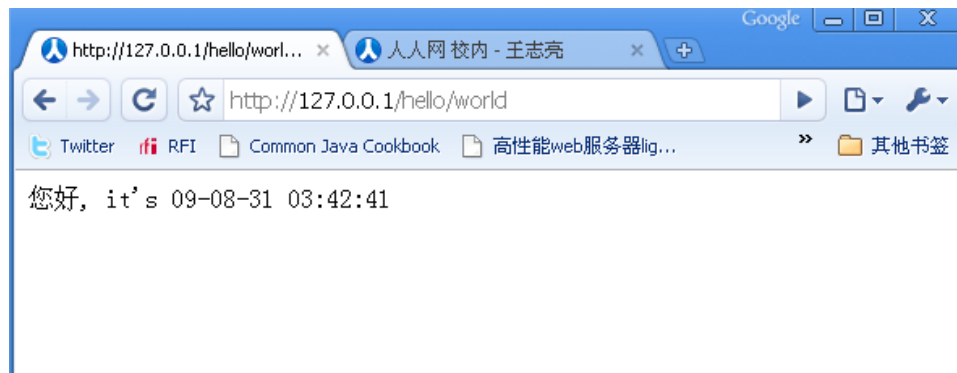
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前件：运行环境

- 已经下载rose开发包，如果没有，请先把Rose[下载](#)下来
- 确认Java运行环境没问题：[开发和运行环境](#)
- 有一个Tomcat、Resin或其他web容器：[开发和运行环境](#)
- 有一个Java编辑器，如Eclipse等(此文假设您使用的是Eclipse)

后件：成果

按照这个文档说明的步骤开发后，最后能够把Rose运行起来，并通过 <http://127.0.0.1/hello/world> 访问，呈现以下的效果：



创建动态web项目

```
Eclipse
--> New
--> Other...
--> Web --> Dynamic Web Project
--> Project Name: HelloRose
--> Target Runtime:
    如果Eclipse已经有Server环境(Tomcat等)，选一个；
    如果没有的话，选择右边的New按钮，创建Server环境
```

```
--> Next
--> Context Root: 清空代表所要运行的web程序在根目录下
--> Finish
--> 确认项目使用的Java Compiler compliance level为1.6(项目属性->Java Compiler选项卡)
--> 确认项目使用的字符集是UTF-8 (项目属性->Resource选项卡)
```

WEB-INF

- 在web.xml下配置一个Filter,以及 可选的 log4j功能

```
<context-param>
  <param-name>log4jConfigLocation</param-name>
  <param-value>/WEB-INF/log4j.properties</param-value>
</context-param>

<listener>
  <listener-class>org.springframework.web.util.Log4jConfigListener</listener-class>
</listener>

<filter>
  <filter-name>roseFilter</filter-name>
  <filter-class>net.paoding.rose.RoseFilter</filter-class>
</filter>

<filter-mapping>
  <filter-name>roseFilter</filter-name>
  <url-pattern>/*</url-pattern>
  <dispatcher>REQUEST</dispatcher>
  <dispatcher>FORWARD</dispatcher>
  <dispatcher>INCLUDE</dispatcher>
</filter-mapping>
```

- 创建WEB-INF/log4j.properties

```
log4j.rootLogger=INFO, stdout

log4j.appender.stdout=org.apache.log4j.ConsoleAppender
log4j.appender.stdout.layout=org.apache.log4j.PatternLayout
log4j.appender.stdout.layout.ConversionPattern=%d %p [%c] - %m%n

log4j.logger.org.springframework=DEBUG
log4j.logger.net.paoding=DEBUG
# set roseInfo INFO to close /rose-inf
log4j.logger.net.paoding.rose.web.controllers.roseInfo=DEBUG
```

请顺便确认WEB-INF/lib含有log4j的jar，如果没有那就下载一个(1.0 的rose依赖包已经含有)。

- 创建WEB-INF/toolbox.xml文件

```
<?xml version="1.0"?>
<toolbox>
  <tool>
    <key>date</key>
    <scope>application</scope>
    <class>org.apache.velocity.tools.generic.DateTool</class>
    <parameter name="format" value="yyyy-MM-dd" />
  </tool>
</toolbox>
```

拷贝jar包

- 把下载包中的 dist/paoding-rose*.jar 拷贝到 WebContent/WEB-INF/lib下
- 把下载包中的 lib/ 的所有jar拷贝到 WebContent/WEB-INF/lib下
- 刷新 Eclipse 中该项目，使 build path 生效

设计视图模板

- 在WebContent下创建views子目录
- 在views目录下创建hello-world.vm文件

```
<html>
  <head></head>
  <body>#msg("hello"), it's $date.format("yy-MM-dd HH:mm:ss", $now)</body>
</html>
```

国际化文件

- 在src下创建messages.xml【[xml格式参考](#)】

```
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE properties SYSTEM "http://java.sun.com/dtd/properties.dtd">
<properties>
    <entry key="hello">您好</entry>
</properties>
```

- 也可以选择properties文件格式的messages.properties，此时需要修改messages.properties的字符集从ISO-8859-1调整为UTF-8 (选中文件-->右键-->Resource-->Text encoding-->Other: UTF-8)

hello = 您好

编写控制器

创建com.xiaonei.rose.gettingStarted.controllers.HelloController

```
package com.xiaonei.rose.gettingStarted.controllers;

import java.util.Date;

import org.springframework.beans.factory.annotation.Autowired;

import net.paoding.rose.web.Invocation;

public class HelloController {

    public String world(Invocation inv) {
        inv.addModel("now", new Date());
        return "hello-world";
    }
}
```

做一个标识

目前来说这个步骤是可选的，但是如果您是通过打jar来部署的，则这个步骤不可避免。

在src下建立创建META-INF/rose.properties文件，写上rose=controllers, applicationContext, dao, messages

这个标识指示rose要识别你开发的jar包中的web代码、jar根目录下的applicationContext*.xml、messages*.xml或messages*.properties，以及jar包中的Jade DAO对象（Jade在本示例没有说明，他是rose提供的DAO编写规范，你只要写DAO接口就可以使用他访问数据库的技术，这个技术一样在人人网、糯米网大力使用 详见：[Jade DAO规范](#)）

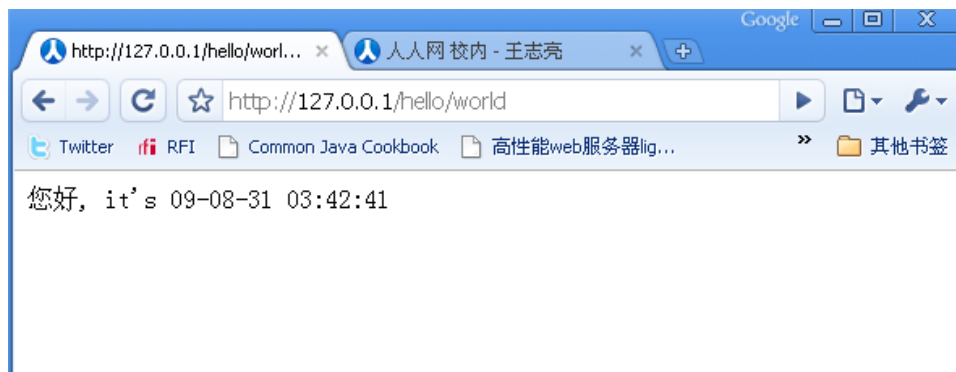
启动

Eclipse

- > 选中项目
- > 右键
- > Run As --> Run On Server
- > 启动日志，最后看到打印的module日志(mappingPath, url, controllers等信息)
- > OK

验证

访问 <http://127.0.0.1/hello/world> 或 <http://127.0.0.1:8080/hello/world>



接下来

接下来你可以看一个更丰富的、比较完整的程序 [第二支程序](#)

Comment by [huji...@gmail.com](#), Jul 23, 2010

提个建议：能否支持一下freemarker哈

Comment by [4myhappy...@gmail.com](#), Jul 23, 2010

这块不是很懂。rose=controllers, applicationContext, dao, messages，可以通过scan找到applicationContext.xml、messages.xml或messages.properties，但是你的controller是怎么被找到的呢？你都没有@Controller标注啊。疑惑？：)

Comment by [4myhappy...@gmail.com](#), Jul 23, 2010

哦。sorry，看了另外一个例子，明白了，是scan的controllers目录。

Comment by [pangkang...@gmail.com](#), Jul 28, 2010

我能运行程序了，但是，如果我想看看 <filter>

```
<filter-name>roseFilter</filter-name> <filter-class>net.paoding.rose.RoseFilter?</filter-class>
```

</filter> 这个里面的net.paoding.rose.RoseFilter?等这些架包时是乱码，鼠标移过去也是现实乱码，请问怎么样才能解决这个问题啊。我项目是utf-8编码格式的

Comment by project member [qieqie.wang](#), Jul 28, 2010

to pankangning1988

请把您的eclipse整个环境默认设置为UTF-8即可解决

Comment by project member [qieqie.wang](#), Jul 28, 2010

to pankangning1988

不仅仅是所在工程，而是整个eclipse默认环境

Comment by [pangkang...@gmail.com](#), Jul 28, 2010

to qieqie.wang 谢谢了，弄好了，呵呵，新下的Eclipse，什么都没设置。不好意思。呵呵！

Comment by [zhangzho...@gmail.com](#), Sep 3, 2010

我有两个问题：1. 我的workspace路径有空格(C:/Documents%20And...),在prepareModules时报FileNotFoundException? 2. 按照步骤来都ok,但是访问<http://127.0.0.1/hello/world>报404 error,好像doFilter没有调用？

谢谢！

Comment by [zhangzho...@gmail.com](#), Sep 7, 2010

访问 <http://127.0.0.1/hello/world> 或 <http://127.0.0.1:8080/hello/world> 应该改为
访问 <http://127.0.0.1>HelloRose/hello/world> 或 <http://127.0.0.1:8080/HelloRose/hello/world>

Comment by project member [qieqie.wang](#), Sep 7, 2010

to zhangzhongmac

这个是webapp的contextpath引起的，因为你的contextpath为"HelloRose2"，所以需要这个前缀，如果你把webapp作为ROOT或者设置它的contextpath为空串""，则就和wiki中说明的地址一致了

Comment by wuxiaobo...@gmail.com, Feb 18, 2011

必须使用eclipse么？这个目录结构和ide的设置是不是耦合？

Comment by project member [qieqie.wang](#), Feb 25, 2011

to wuxiaobo: 不必须

Comment by qiaobing...@gmail.com, Mar 15, 2011

看来源代码的JadeFactory2里面的

/

- 如果您所写的程序在Spring容器之外，不能用 {@link Autowired} 注入一个Jade DAO，此时可使用
- {@link JadeFactory2} 来使用Jade DAO。
- <p>
-
- String confLocation = "classpath:/applicationContext.xml";

- JadeFactory2 jade = new JadeFactory2(confLocation);

- UserDao userDao = jade.getDao(UserDAO.class);
-
- @author 王志亮 [qieqie.wang@gmail.com]
- @author 廖涵 [in355hz@gmail.com]
-

```
public class JadeFactory2 {  
  
    private ApplicationContext2 applicationContext;  
  
    public JadeFactory2(ApplicationContext2 applicationContext) {  
  
        assert applicationContext != null; this.applicationContext = applicationContext;  
  
    }  
  
    public JadeFactory2(String... applicationContextLocations) {  
  
        assert applicationContextLocations.length != 0; this.applicationContext = new ClassPathXmlApplicationContext2  
        (applicationContextLocations);  
  
    }  
  
    @SuppressWarnings2("unchecked") public <T> T getDao(Class<T> daoClass) {  
  
        return (T) BeanFactoryUtils2.beanOfType(applicationContext, daoClass);  
  
    }  
  
}
```

} 这个方法：

```
public JadeFactory2(String... applicationContextLocations) {  
  
    assert applicationContextLocations.length != 0; this.applicationContext = new ClassPathXmlApplicationContext2  
    (applicationContextLocations);  
  
}
```

这个方法在有spring的同时会有问题，spring管理的bean的单利并不是gof的，在同一个classloader下如果有配置文件已经配置了这个类，但我又用这个方法获取了这个类，会造成单利的bean不单利，因为你new 了一个ClassPathXmlApplicationContext2。并且导致一些其他问题。

虽然有注释：如果您所写的程序在Spring容器之外，不能用 {@link Autowired} 注入一个Jade DAO，此时可使用。但毕竟开源的东西有风险在里面。建议使用spring的ApplicationContextAware2

个人意见。

Comment by zhoufeng...@gmail.com, Mar 31, 2011

Caused by: org.springframework.beans.factory.BeanCreationException?: Error creating bean with name 'ModuleBuilder?com.xiaonei.rose.gettingStarted.controllers.HelloController': Autowiring of fields failed; nested exception is org.springframework.beans.factory.BeanCreationException?: Could not autowire field: private net.paoding.rose.web.InvocationLocal?com.xiaonei.rose.gettingStarted.controllers.HelloController?.invocationLocal; nested exception is org.springframework.beans.factory.NoSuchBeanDefinitionException?: No unique bean of type [net.paoding.rose.web.InvocationLocal?] is defined: Unsatisfied dependency of type net.paoding.rose.web.InvocationLocal?: expected at least 1 matching bean

Comment by zhoufeng...@gmail.com, Mar 31, 2011

没有按照LZ的步骤，新建了Maven Web工程，直接依赖Trunk源码，报错

Comment by rongjin...@gmail.com, Oct 25, 2011

如果是直接用eclipse运行，log4j.properties文件应该放在src目录下才能加载

Comment by guozhiha...@gmail.com, Dec 6, 2011

按照楼主的一步一步，2011-12-07 02:29:04,195 DEBUG [net.paoding.rose.RoseFilter?] - GET <http://localhost:8080/HelloRose/> 2011-12-07 02:29:04,206 DEBUG [net.paoding.rose.web.impl.mapping.MappingNode?] - [/] matched(1): " 2011-12-07 02:29:04,206 DEBUG [net.paoding.rose.web.impl.mapping.MappingNode?] - [/] matched over. 2011-12-07 02:29:04,206 DEBUG [net.paoding.rose.web.impl.thread.Rose] - not rose uri, not exists leaf engines for it 2011-12-07 02:29:04,206 DEBUG [net.paoding.rose.RoseFilter?] - not rose uri: /HelloRose/?

Comment by fei.a....@gmail.com, Mar 19, 2012

这么好的东东，期待更新啊！不过做第一个例子用了5个小时，还没搞定。不管我把context path改成什么（改成"/"等），都匹配不上。。。 2012-03-19 21:33:11,560 DEBUG [net.paoding.rose.RoseFilter?] - GET <http://localhost:8080/hello/> 2012-03-19 21:33:11,564 DEBUG [net.paoding.rose.web.impl.mapping.MappingNode?] - [/] matched(1): " 2012-03-19 21:33:11,564 DEBUG [net.paoding.rose.web.impl.mapping.MappingNode?] - [/] matched over. 2012-03-19 21:33:11,564 DEBUG [net.paoding.rose.web.impl.thread.Rose] - not rose uri, not exists leaf engines for it 2012-03-19 21:33:11,564 DEBUG [net.paoding.rose.RoseFilter?] - not rose uri: /hello/ 2012-03-19 21:51:37,711 DEBUG [net.paoding.rose.RoseFilter?] - GET <http://localhost:8080/hello/> 2012-03-19 21:51:37,711 DEBUG [net.paoding.rose.web.impl.mapping.MappingNode?] - [/] matched(1): " 2012-03-19 21:51:37,711 DEBUG [net.paoding.rose.web.impl.mapping.MappingNode?] - [/] matched over. 2012-03-19 21:51:37,711 DEBUG [net.paoding.rose.web.impl.thread.Rose] - not rose uri, not exists leaf engines for it 2012-03-19 21:51:37,711 DEBUG [net.paoding.rose.RoseFilter?] - not rose uri: /hello/

Comment by fei.a....@gmail.com, Mar 19, 2012

改成"/"后直接进tomcat的欢迎页

Comment by ddandmml...@gmail.com, Sep 26, 2012

我的结果：您好，it's \$date.format("yy-MM-dd HH:mm:ss", \$now)；

2012-09-26 18:17:43,687 DEBUG [net.paoding.rose.RoseFilter?] - GET <http://127.0.0.1:8080/RoseFirst/hello/world> 2012-09-26 18:17:43,687 DEBUG [net.paoding.rose.web.impl.mapping.MappingNode?] - [/hello/world] matched(1): " 2012-09-26 18:17:43,687 DEBUG [net.paoding.rose.web.impl.mapping.MappingNode?] - [/hello/world] matched(2): '/hello' 2012-09-26 18:17:43,687 DEBUG [net.paoding.rose.web.impl.mapping.MappingNode?] - [/hello/world] matched(3): '/world' 2012-09-26 18:17:43,687 DEBUG [net.paoding.rose.web.impl.mapping.MappingNode?] - [/hello/world] matched over. 2012-09-26 18:17:43,687 DEBUG [net.paoding.rose.web.impl.thread.RootEngine?] - set request.characterEncoding by default:UTF-8 2012-09-26 18:17:43,687 DEBUG [net.paoding.rose.web.var.ModelImpl?] - add attribute to model: invocation=/RoseFirst?/hello/world 2012-09-26 18:17:43,687 DEBUG [net.paoding.rose.web.var.ModelImpl?] - add attribute to model: ctxpath=/RoseFirst? 2012-09-26 18:17:43,687 DEBUG [net.paoding.rose.web.impl.thread.ActionEngine?] - set response.characterEncoding by default:UTF-8 2012-09-26 18:17:43,687 DEBUG [net.paoding.rose.web.var.ModelImpl?] - add attribute to model: org.springframework.validation.BindingResult?parameterBindingResult=net.paoding.rose.web.impl.validation.ParameterBindingResult?: 0 errors 2012-09-26 18:17:43,687 DEBUG [net.paoding.rose.web.paramresolver.MethodParameterResolver?] - Resolves parameter Invocation using net.paoding.rose.web.paramresolver.ResolverFactoryImpl?.\$InvocationResolver? 2012-09-26 18:17:43,687 DEBUG [net.paoding.rose.web.var.ModelImpl?] - add attribute to model: now=Wed Sep 26 18:17:43 CST 2012 2012-09-26 18:17:43,687 DEBUG [net.paoding.rose.web.impl.thread.ActionEngine?] - interceptormergeWindowAttributesToModel? do round and return 'hello-world' 2012-09-26 18:17:43,687 DEBUG [net.paoding.rose.web.instruction.InstructionExecutorImpl?] - parset instruction:java.lang.String: 'hello-world' 2012-09-26 18:17:43,687 DEBUG [net.paoding.rose.web.instruction.InstructionExecutorImpl?] - parset instruction:net.paoding.rose.web.instruction.InstructionExecutorImpl?.\$StringInstruction?: " 2012-09-26 18:17:43,687 DEBUG [org.springframework.beans.factory.support.DefaultListableBeanFactory?] - Returning cached instance of singleton bean 'viewDispatcher' 2012-09-26 18:17:43,687 DEBUG [net.paoding.rose.web.instruction.ViewInstruction?] - resolving view name = 'hello-world' 2012-09-26 18:17:43,687 DEBUG [net.paoding.rose.web.instruction.ViewInstruction?] - found '/views/hello-world.vm' for viewName 'hello-world' 2012-09-26 18:17:43,687 DEBUG [net.paoding.rose.web.impl.view.ViewDispatcherImpl?] - to get velocity view resolver. 2012-09-26 18:17:43,687 DEBUG [net.paoding.rose.web.var.ModelImpl?] - add attribute to model: roseInvocation=/RoseFirst?/hello/world 2012-09-26 18:17:43,687 DEBUG [org.springframework.web.servlet.view.velocity.VelocityView?] - Rendering Velocity template [/views/hello-world.vm] in VelocityView? /views/hello-

Comment by guyez...@gmail.com, Nov 27, 2012

与楼上问题一样：您好, it's \$date.format("yy-MM-dd HH:mm:ss", \$now)

Comment by guyez...@gmail.com, Nov 28, 2012

上面的问题解决，toolbox.xml放在WEB-INF下即可。

Comment by shanwa...@gmail.com, Jan 30, 2013

我也是not rose uri怎么解决呀

Comment by hongtenb...@gmail.com, Mar 27, 2013

good project!

Comment by 245141...@qq.com, Mar 29, 2013

HTTP Status 404 - /hellorose/hello/world

type Status report

message /hellorose/hello/world

description The requested resource (/hellorose/hello/world) is not available 什么原因

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