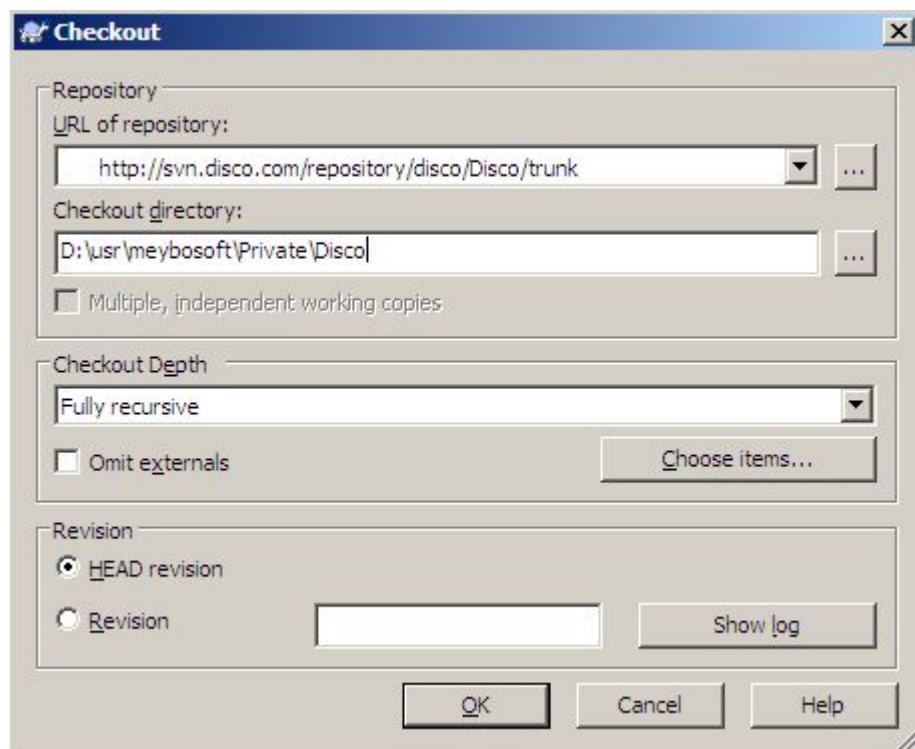


# 1. 源码构建指南

## 1.1. 获取源代码

目前，Disco 使用 SVN 工具进行版本管理。因此，在获取源代码之前请确保你的计算机上安装了 SVN 软件。Disco 最新的代码库地址是(授权成功的用户才能访问):

<http://svn.disco.com/repository/disco/Disco/trunk>



## 1.2. 源代码目录结构

最新版本的源代码根目录结构如下：



其中 pom.xml 是 Disco 项目的总控文件，src 目录存放项目所有模块的相关文件。

进入 src 目录，其结构如下：



Module	Description
core	核心模块，包含核心类和接口。
ext	对核心模块的扩展。
generator	代码生成工具。
main	
site	
test	测试用例

上面这些模块的结构大同小异，都是遵循 Maven 标准目录结构而建立的。因此，我们在此处只以 core 目录为例进行讲解。

进入 core 目录，其结构也是一个 src 目录和一个 pom.xml 文件：



该 pom.xml 文件定义了 core 模块的结构、依赖关系等。该 pom.xml 与项目根目录下的 pom.xml 文件构成父子关系。

## 1.3. 安装

目前 Disco 已经采用国际水准的项目管理工具——Maven。Maven 是一个功能强大的项目管理工具，在此处不做过多介绍，有兴趣的可以阅读 Maven 官方文档。

首先要确保你的计算机上已经安装了 Maven2.0.5 以上版本，如果还没有安装可以到

<http://maven.apache.org/download.html>

下载最新版本的 Maven 压缩包，并解压到硬盘的某个目录中，例如：  
D:\developtool\maven-2.0.7，其目录结构如下：



解压之后，把 bin 目录添加到操作系统的 path 变量中（别告诉我你不会哦©©），然后在 cmd 命令行下输入 mvn -version 命令，如果出现如下提示，则说明 Maven 已经安装成功！

```
C:\cmd.exe
Microsoft Windows [版本 5.2.3790]
(C) 版权所有 1985-2003 Microsoft Corp.

d:\>cd D:\usr\meybosoft\Private\disco

D:\usr\meybosoft\Private\disco>mvn -version
Apache Maven 3.0.5 (r01de14724cdef164cd33c7c8c2fe155faf9602da; 2013-02-19 21:51:28+0800)
Maven home: D:\usr\local\tools\maven3\bin\..
Java version: 1.7.0_03, vendor: Oracle Corporation
Java home: D:\usr\local\lyService\java\jdk1.7\jre
Default locale: zh_CN, platform encoding: GBK
OS name: "windows 2003", version: "5.2", arch: "x86", family: "windows"
D:\usr\meybosoft\Private\disco>
```

如果看到了上面的提示，那么祝贺你，你已经可以开始构建 Disco 的源代码了。在 cmd 中转到 Disco 项目的根目录下，然后执行 mvn clean install -Dmaven.test.skip=true 命令，你会看到如下提示：

```

C:\WINDOWS\system32\cmd.exe

H:\opensource-framework\EasyJWeb\trunk>mvn clean install -Dnaven.test.skip=true
[INFO] Scanning for projects...
[INFO] Reactor build order:
[INFO]   EasyJWeb Parent POM
[INFO]   EasyJWeb Core Module
[INFO]   EasyJWeb Ext Module
[INFO]   EasyJWeb Generator Module
[INFO]   EasyJWeb Test Module
[INFO] -----
[INFO] Building EasyJWeb Parent POM
[INFO]   task-segment: [clean, install]
[INFO] -----
[INFO] [clean:clean]
[INFO] Deleting directory H:\opensource-framework\EasyJWeb\trunk\target
[INFO] Deleting directory H:\opensource-framework\EasyJWeb\trunk\target\classes
[INFO] Deleting directory H:\opensource-framework\EasyJWeb\trunk\target\test-classes
[INFO] Deleting directory H:\opensource-framework\EasyJWeb\trunk\target\site
[INFO] [site:attach-descriptor]
[INFO] [install:install]
[INFO] Installing H:\opensource-framework\EasyJWeb\trunk\pom.xml to C:\Documents and Settings\tao.youzt\m2\repository\com\easyjf\easyjweb\easyjweb-parent\1.0-m2\easyjweb-parent-1.0-m2.pom
[INFO] -----
[INFO] Building EasyJWeb Core Module
[INFO]   task-segment: [clean, install]
[INFO] -----
[INFO] [clean:clean]
[INFO] Deleting directory H:\opensource-framework\EasyJWeb\trunk\src\core\target
[INFO] Deleting directory H:\opensource-framework\EasyJWeb\trunk\src\core\target\classes
[INFO] Deleting directory H:\opensource-framework\EasyJWeb\trunk\src\core\target\test-classes
[INFO] Deleting directory H:\opensource-framework\EasyJWeb\trunk\src\core\target\site
[INFO] [resources:resources]
[INFO] Using default encoding to copy filtered resources.
[INFO] [compiler:compile]
[INFO] Compiling 158 source files to H:\opensource-framework\EasyJWeb\trunk\src\core\target\classes
[INFO] [resources:testResources]
[INFO] Using default encoding to copy filtered resources.
[INFO] [compiler:testCompile]
[INFO] Not compiling test sources
[INFO] [surefire:test]
[INFO] Tests are skipped.
[INFO] [jar:jar]
[INFO] Building jar: H:\opensource-framework\EasyJWeb\trunk\src\core\target\easyjweb-core-1.0-m2.jar
[INFO] [install:install]
[INFO] Installing H:\opensource-framework\EasyJWeb\trunk\src\core\target\easyjweb-core-1.0-m2.jar to C:\Documents and Settings\tao.youzt\m2\repository\com\easyjf\easyjweb\core\easyjweb-core\1.0-m2\easyjweb-core-1.0-m2.jar
[INFO] -----
[INFO] Building EasyJWeb Ext Module
[INFO]   task-segment: [clean, install]
[INFO] -----
[INFO] [clean:clean]
[INFO] Deleting directory H:\opensource-framework\EasyJWeb\trunk\src\ext\target
[INFO] Deleting directory H:\opensource-framework\EasyJWeb\trunk\src\ext\target\classes
[INFO] Deleting directory H:\opensource-framework\EasyJWeb\trunk\src\ext\target\test-classes
[INFO] Deleting directory H:\opensource-framework\EasyJWeb\trunk\src\ext\target\site
[INFO] [resources:resources]
[INFO] Using default encoding to copy filtered resources.
[INFO] [compiler:compile]
[INFO] Compiling 61 source files to H:\opensource-framework\EasyJWeb\trunk\src\ext\target\classes
[INFO] [resources:testResources]
[INFO] Using default encoding to copy filtered resources.
[INFO] [compiler:testCompile]
[INFO] Not compiling test sources
[INFO] [surefire:test]
[INFO] Tests are skipped.
[INFO] [jar:jar]
[INFO] Building jar: H:\opensource-framework\EasyJWeb\trunk\src\ext\target\easyjweb-ext-1.0-m2.jar
[INFO] [install:install]
[INFO] Installing H:\opensource-framework\EasyJWeb\trunk\src\ext\target\easyjweb-ext-1.0-m2.jar to C:\Documents and Settings\tao.youzt\m2\repository\com\easyjf\easyjweb\ext\easyjweb-ext\1.0-m2\easyjweb-ext-1.0-m2.jar
[INFO] -----
[INFO] Building EasyJWeb Generator Module
[INFO]   task-segment: [clean, install]
[INFO] -----
[INFO] [clean:clean]
[INFO] Deleting directory H:\opensource-framework\EasyJWeb\trunk\src\generator\target
[INFO] Deleting directory H:\opensource-framework\EasyJWeb\trunk\src\generator\target\classes
[INFO] Deleting directory H:\opensource-framework\EasyJWeb\trunk\src\generator\target\test-classes
[INFO] Deleting directory H:\opensource-framework\EasyJWeb\trunk\src\generator\target\site
[INFO] [resources:resources]
[INFO] Using default encoding to copy filtered resources.
[INFO] [compiler:compile]
[INFO] Compiling 25 source files to H:\opensource-framework\EasyJWeb\trunk\src\generator\target\classes
[INFO] [resources:testResources]
[INFO] Using default encoding to copy filtered resources.
[INFO] [compiler:testCompile]
[INFO] Not compiling test sources
[INFO] [surefire:test]
[INFO] Tests are skipped.
[INFO] [jar:jar]
[INFO] Building jar: H:\opensource-framework\EasyJWeb\trunk\src\generator\target\easyjweb-generator-1.0-m2.jar
[INFO] [install:install]
[INFO] Installing H:\opensource-framework\EasyJWeb\trunk\src\generator\target\easyjweb-generator-1.0-m2.jar to C:\Documents and Settings\tao.youzt\m2\repository\com\easyjf\easyjweb\generator\easyjweb-generator\1.0-m2\easyjweb-generator-1.0-m2.jar
[INFO] -----
[INFO] Building EasyJWeb Test Module
[INFO]   task-segment: [clean, install]
[INFO] -----

```

```

[INFO] [clean:clean]
[INFO] Deleting directory H:\opensource-framework\EasyJWeb\trunk\src\test\target
[INFO] Deleting directory H:\opensource-framework\EasyJWeb\trunk\src\test\target\classes
[INFO] Deleting directory H:\opensource-framework\EasyJWeb\trunk\src\test\target\test-classes
[INFO] Deleting directory H:\opensource-framework\EasyJWeb\trunk\src\test\target\site
[INFO] [resources:resources]
[INFO] Using default encoding to copy filtered resources.
[INFO] [compiler:compile]
[INFO] Nothing to compile - all classes are up to date
[INFO] [resources:testResources]
[INFO] Using default encoding to copy filtered resources.
[INFO] [compiler:testCompile]
[INFO] Not compiling test sources
[INFO] [surefire:test]
[INFO] Tests are skipped.
[INFO] [jar:jar]
[INFO] Building jar: H:\opensource-framework\EasyJWeb\trunk\src\test\target\easyjweb-test-1.0-m2.jar
[INFO] [install:install]
[INFO] Installing H:\opensource-framework\EasyJWeb\trunk\src\test\target\easyjweb-test-1.0-m2.jar to C:\Documents and Settings\tao.youzt\.m2\repository\com\easyj\easyjweb\test\easyjweb-test-1.0-m2\easyjweb-test-1.0-m2.jar
[INFO]
[INFO]
[INFO] -----
[INFO] Reactor Summary:
[INFO]
[INFO] EasyJWeb Parent POM ..... SUCCESS [2.514s]
[INFO] Easyjweb Core Module ..... SUCCESS [5.746s]
[INFO] Easyjweb Ext Module ..... SUCCESS [3.591s]
[INFO] Easyjweb Generator Module ..... SUCCESS [2.639s]
[INFO] Easyjweb Test Module ..... SUCCESS [0.421s]
[INFO]
[INFO] -----
[INFO] BUILD SUCCESSFUL
[INFO]
[INFO] Total time: 15 seconds
[INFO] Finished at: Wed Nov 14 09:51:34 CST 2007
[INFO] Final Memory: 9M/16M
[INFO]
H:\opensource-framework\EasyJWeb\trunk>

```

如果你是初次安装 Maven，此过程会自动从 <http://dl.disco.com> 上下载依赖的 jar 包到你本地目录的 %user\_home%\m2\repository 下，此过程可能需要一些时间，也有可能由于网络原因出现下载失败的情况，无论如何都不用害怕，只要多执行几次该命令就 OK 了。

如果多次执行该命令后仍然提示部分 jar 包无法下载，请联系 Disco 网站管理员。

至此，你已经完成了 Disco 的安装，下一步就是生成 Eclipse 工程，并导入 Eclipse 开发工具中开始你的 Disco 之旅吧：)

## 1.4. 生成 Eclipse 工程

在 Disco 项目的根目录下执行：mvn eclipse:eclipse -Dmaven.test.skip=true 命令，如下：

C:\WINDOWS\system32\cmd.exe

```
H:\opensource-framework\EasyJWeb\trunk>mvn eclipse:eclipse -Dmaven.test.skip=true
[INFO] Scanning for projects...
[INFO] Reactor build order:
[INFO]   EasyJWeb Parent POM
[INFO]   Easyjweb Core Module
[INFO]   Easyjweb Ext Module
[INFO]   Easyjweb Generator Module
[INFO]   Easyjweb Test Module
[INFO] Searching repository for plugin with prefix: 'eclipse'.
[INFO] -----
[INFO] Building EasyJWeb Parent POM
[INFO]   task-segment: [eclipse:eclipse]
[INFO] -----
[INFO] Preparing eclipse:eclipse
[INFO] No goals needed for project - skipping
[INFO] [eclipse:eclipse]
[INFO] Not running eclipse plugin goal for pom project
[INFO] -----
[INFO] Building Easyjweb Core Module
[INFO]   task-segment: [eclipse:eclipse]
[INFO] -----
[INFO] Preparing eclipse:eclipse
[INFO] No goals needed for project - skipping
[INFO] [eclipse:eclipse]
[INFO] Using source status cache: H:\opensource-framework\EasyJWeb\trunk\target\mvn-eclipse-cache.properties
[INFO] File H:\opensource-framework\EasyJWeb\trunk\src\core\project already exists.
[INFO] Additional settings will be preserved, run mvn eclipse:clean if you want old settings to be removed.
[INFO] Wrote Eclipse project for "easyjweb-core" to H:\opensource-framework\EasyJWeb\trunk\src\core.
[INFO] -----
[INFO] Building Easyjweb Ext Module
[INFO]   task-segment: [eclipse:eclipse]
[INFO] -----
[INFO] Preparing eclipse:eclipse
[INFO] No goals needed for project - skipping
[INFO] [eclipse:eclipse]
[INFO] Using source status cache: H:\opensource-framework\EasyJWeb\trunk\target\mvn-eclipse-cache.properties
[INFO] File H:\opensource-framework\EasyJWeb\trunk\src\ext\project already exists.
[INFO] Additional settings will be preserved, run mvn eclipse:clean if you want old settings to be removed.
[INFO] Wrote Eclipse project for "easyjweb-ext" to H:\opensource-framework\EasyJWeb\trunk\src\ext.
[INFO] -----
[INFO] Building Easyjweb Generator Module
[INFO]   task-segment: [eclipse:eclipse]
[INFO] -----
```

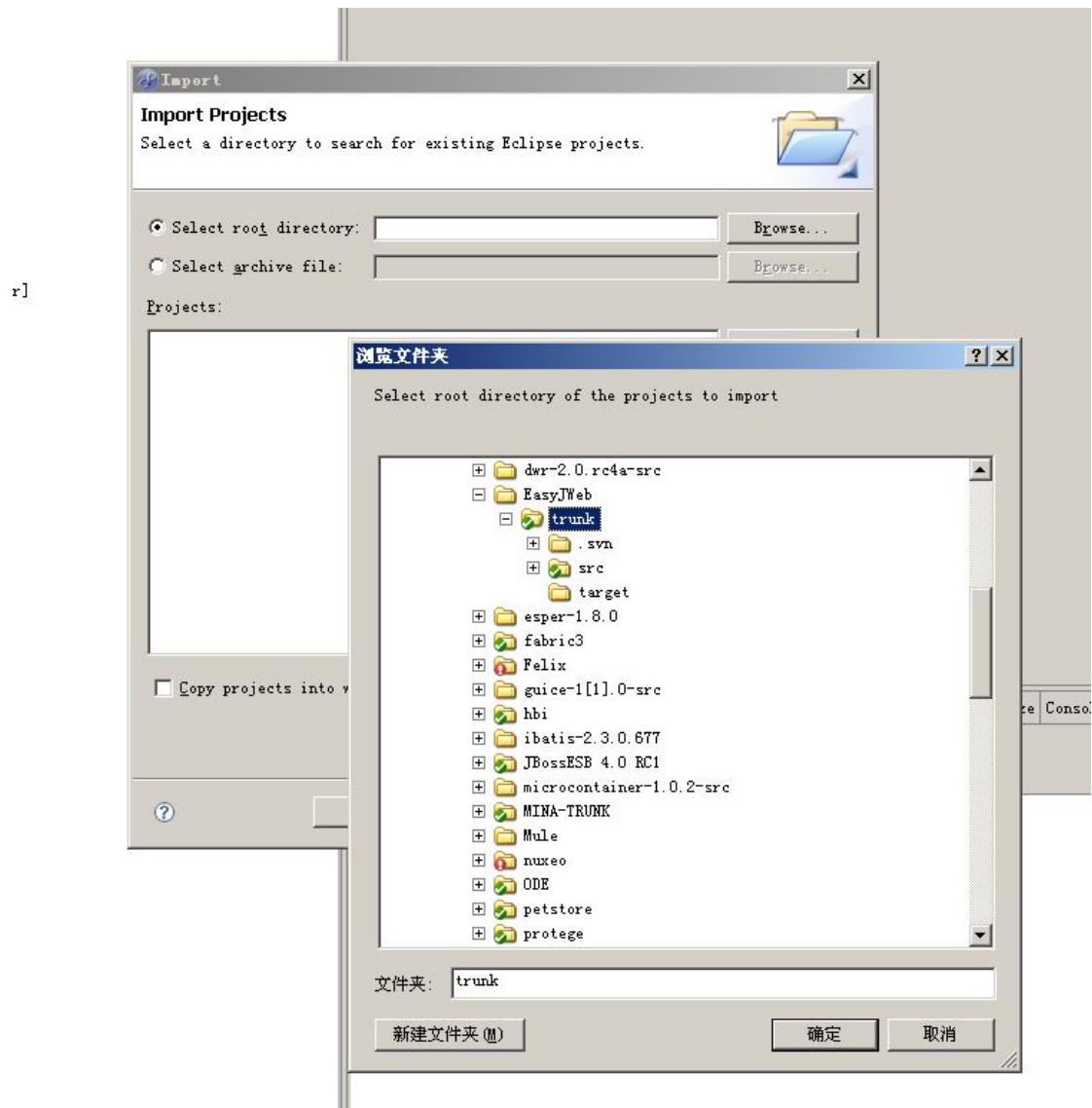
```
[INFO] Preparing eclipse:eclipse
[INFO] No goals needed for project - skipping
[INFO] [eclipse:eclipse]
[INFO] Using source status cache: H:\opensource-framework\EasyJWeb\trunk\target\mvn-eclipse-cache.properties
[INFO] File H:\opensource-framework\EasyJWeb\trunk\src\generator\project already exists.
[INFO] Additional settings will be preserved, run mvn eclipse:clean if you want old settings to be removed.
[INFO] Wrote Eclipse project for "easyjweb-generator" to H:\opensource-framework\EasyJWeb\trunk\src\generator.
[INFO] -----
[INFO] Building Easyjweb Test Module
[INFO]   task-segment: [eclipse:eclipse]
[INFO] -----
[INFO] Preparing eclipse:eclipse
[INFO] No goals needed for project - skipping
[INFO] [eclipse:eclipse]
[INFO] Using source status cache: H:\opensource-framework\EasyJWeb\trunk\target\mvn-eclipse-cache.properties
[INFO] File H:\opensource-framework\EasyJWeb\trunk\src\test\project already exists.
[INFO] Additional settings will be preserved, run mvn eclipse:clean if you want old settings to be removed.
[INFO] Wrote Eclipse project for "easyjweb-test" to H:\opensource-framework\EasyJWeb\trunk\src\test.
[INFO] -----
[INFO] Reactor Summary:
[INFO] -----
[INFO] EasyJWeb Parent POM ..... SUCCESS [1.452s]
[INFO] Easyjweb Core Module ..... SUCCESS [0.437s]
[INFO] Easyjweb Ext Module ..... SUCCESS [0.531s]
[INFO] Easyjweb Generator Module ..... SUCCESS [0.187s]
[INFO] Easyjweb Test Module ..... SUCCESS [0.203s]
[INFO] -----
[INFO] BUILD SUCCESSFUL
[INFO] -----
[INFO] Total time: 3 seconds
[INFO] Finished at: Wed Nov 14 10:01:25 CST 2007
[INFO] Final Memory: 7M/12M
[INFO] -----
```

H:\opensource-framework\EasyJWeb\trunk>

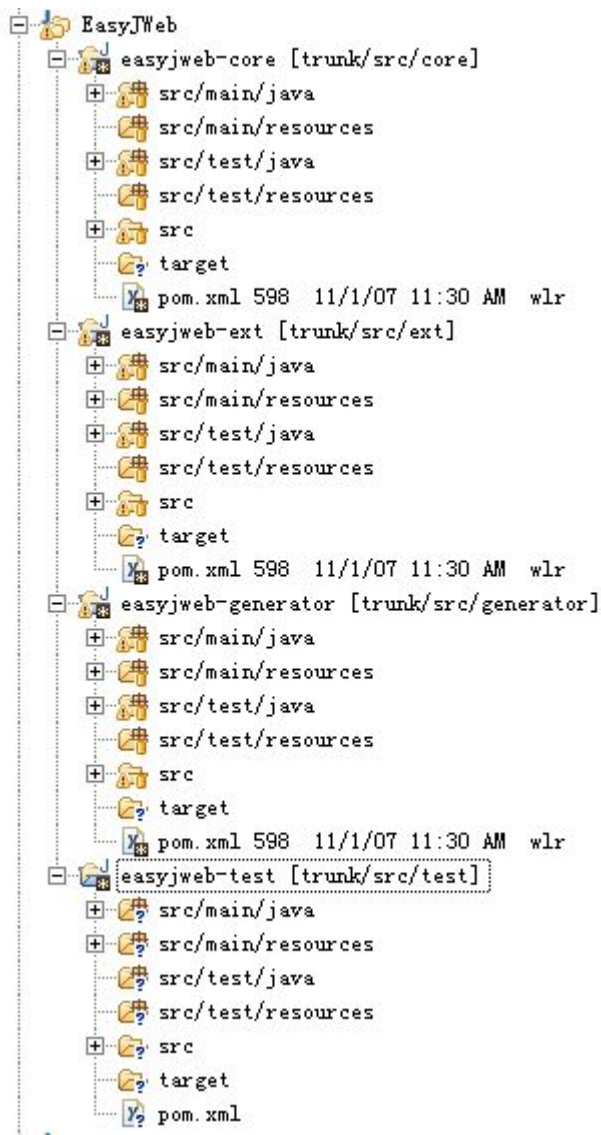


看到 BUILD SUCCESSFUL 字样，就代表正确的生成了 Eclipse 工程文件。在 core,ext,generate,test 目录下都会看到 .project 和 .classpath 文件，这两个文件对大家再熟悉不过了，呵呵。

打开你的 Eclipse 工具，选择导入——从已有文件导入，如



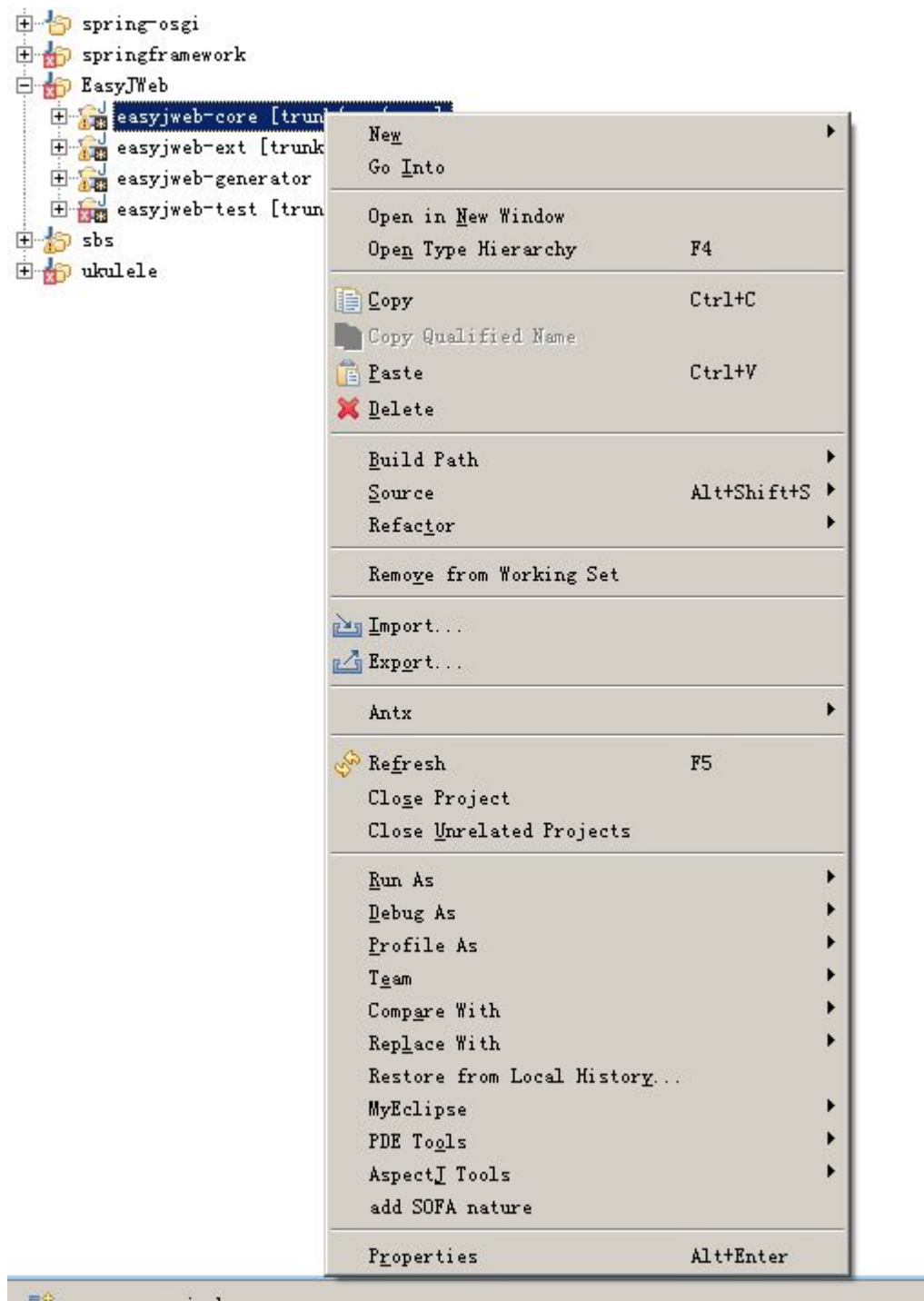
选择 Disco 的根目录，选中所有列出的项目，然后导入。在 Eclipse 中新建一个 Working Set，命名为 Disco，然后把导入的 4 个项目都放到该 Working Set 下，最终其结构如下：



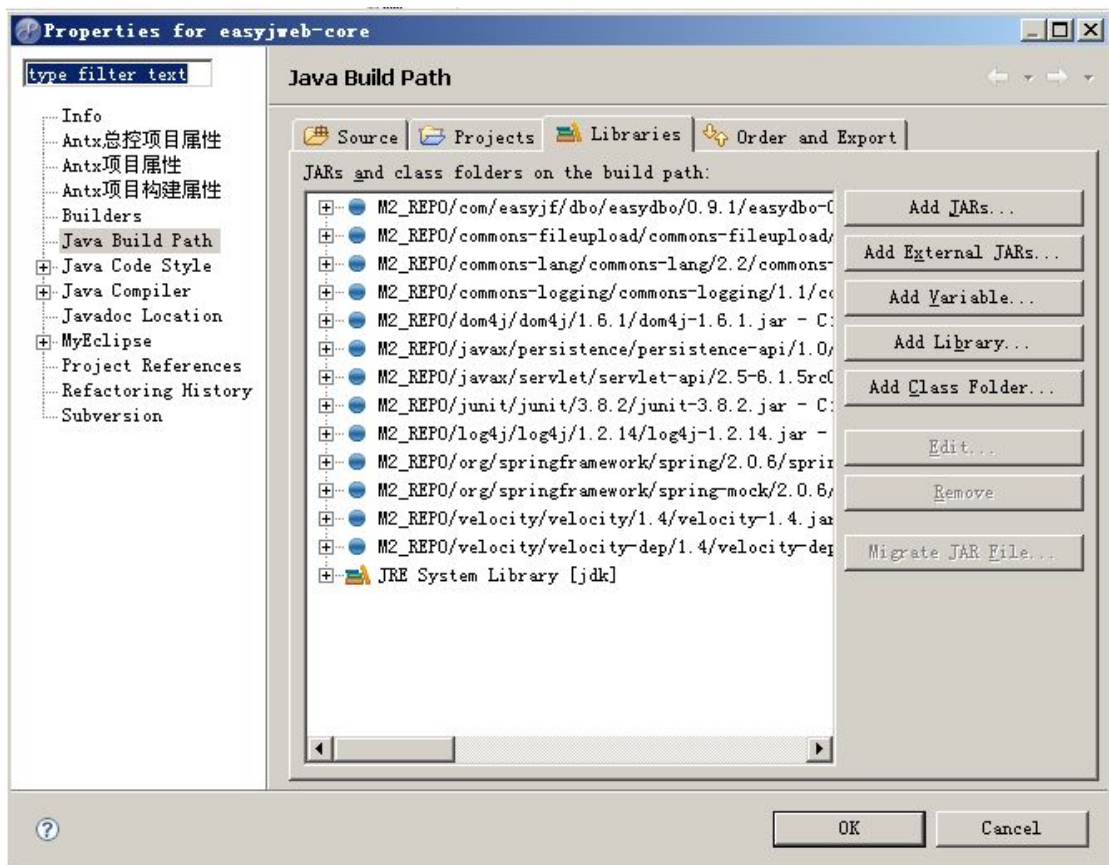
如果你的 Eclipse 提示相关 jar 包丢失, 那说明你的 Eclipse 中没有设置 M2\_REPO 变量, 请按照如下步骤设置该变量。

- 1、在任意项目上点右键——属性

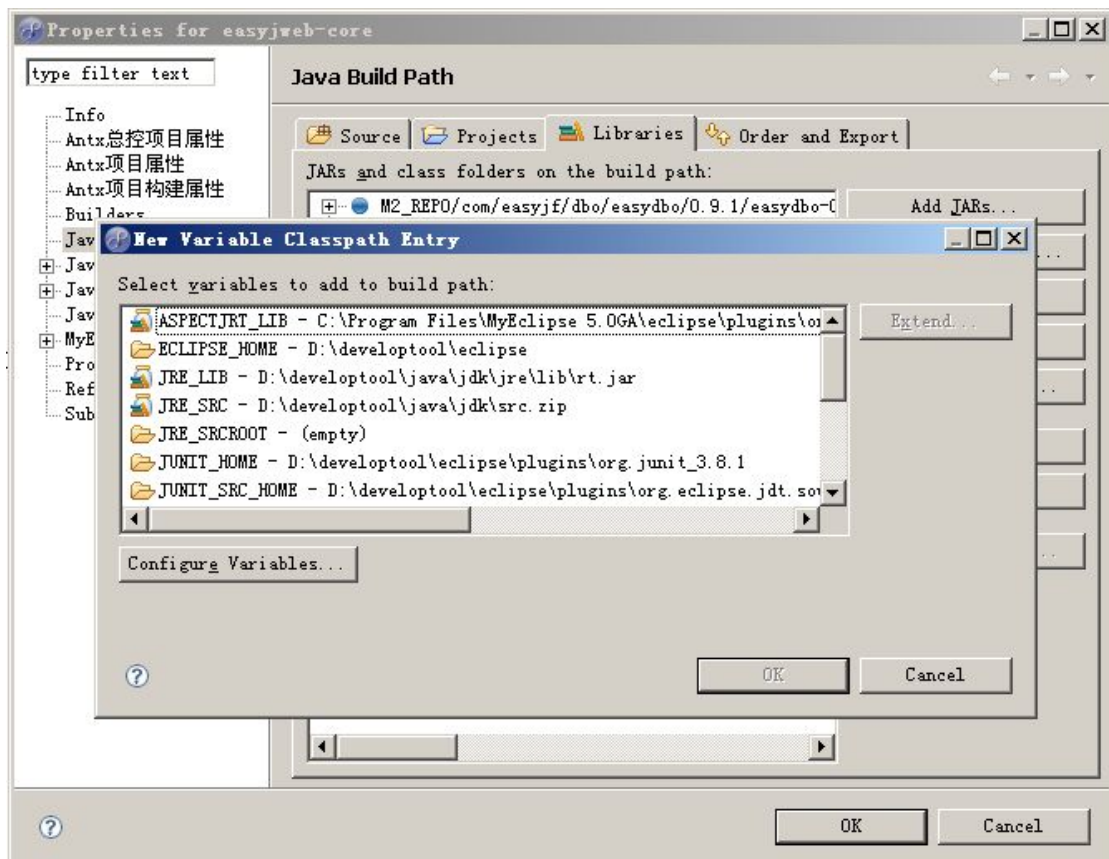




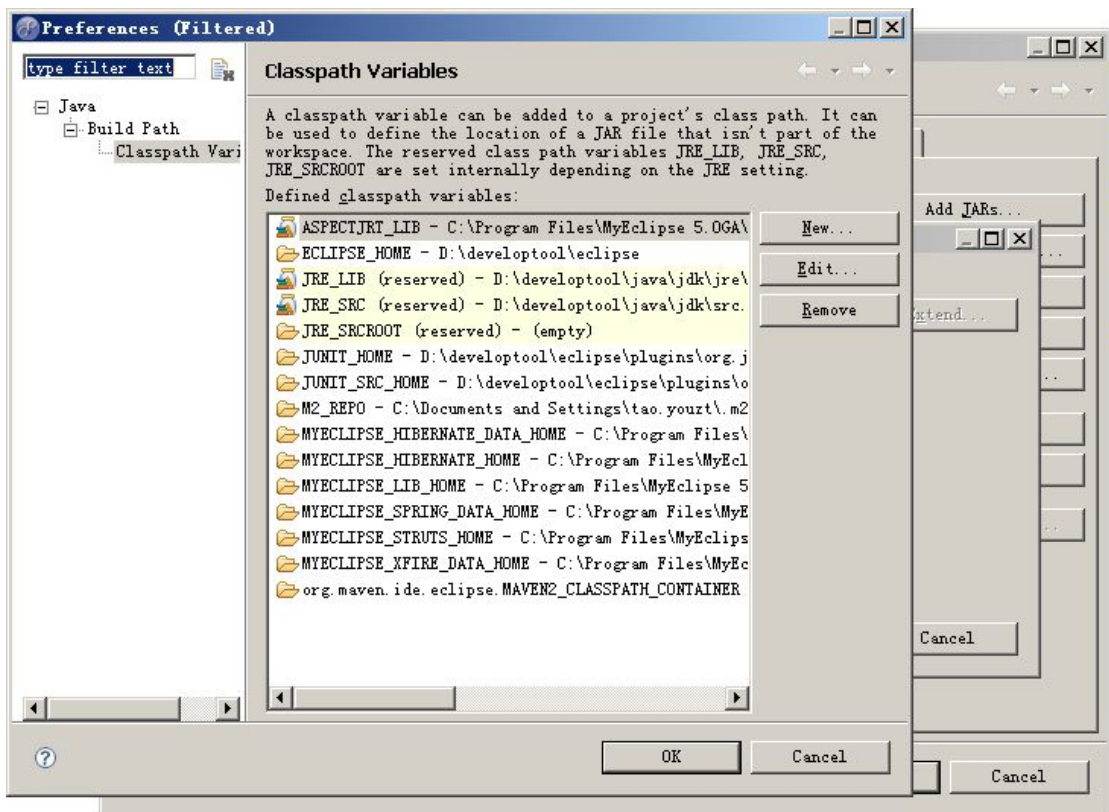
2、在弹出属性设置面板上选择 java build path 项



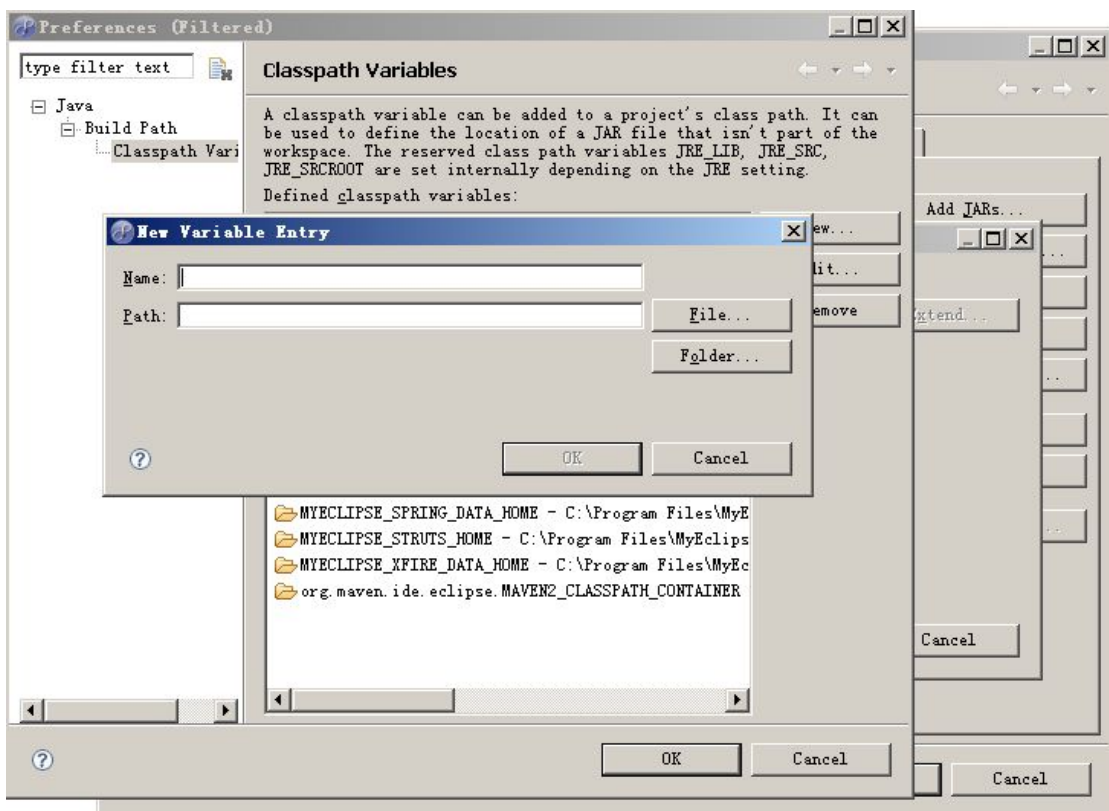
### 3、选择 Add Variable 按钮



#### 4、点击 configure Variables 按钮

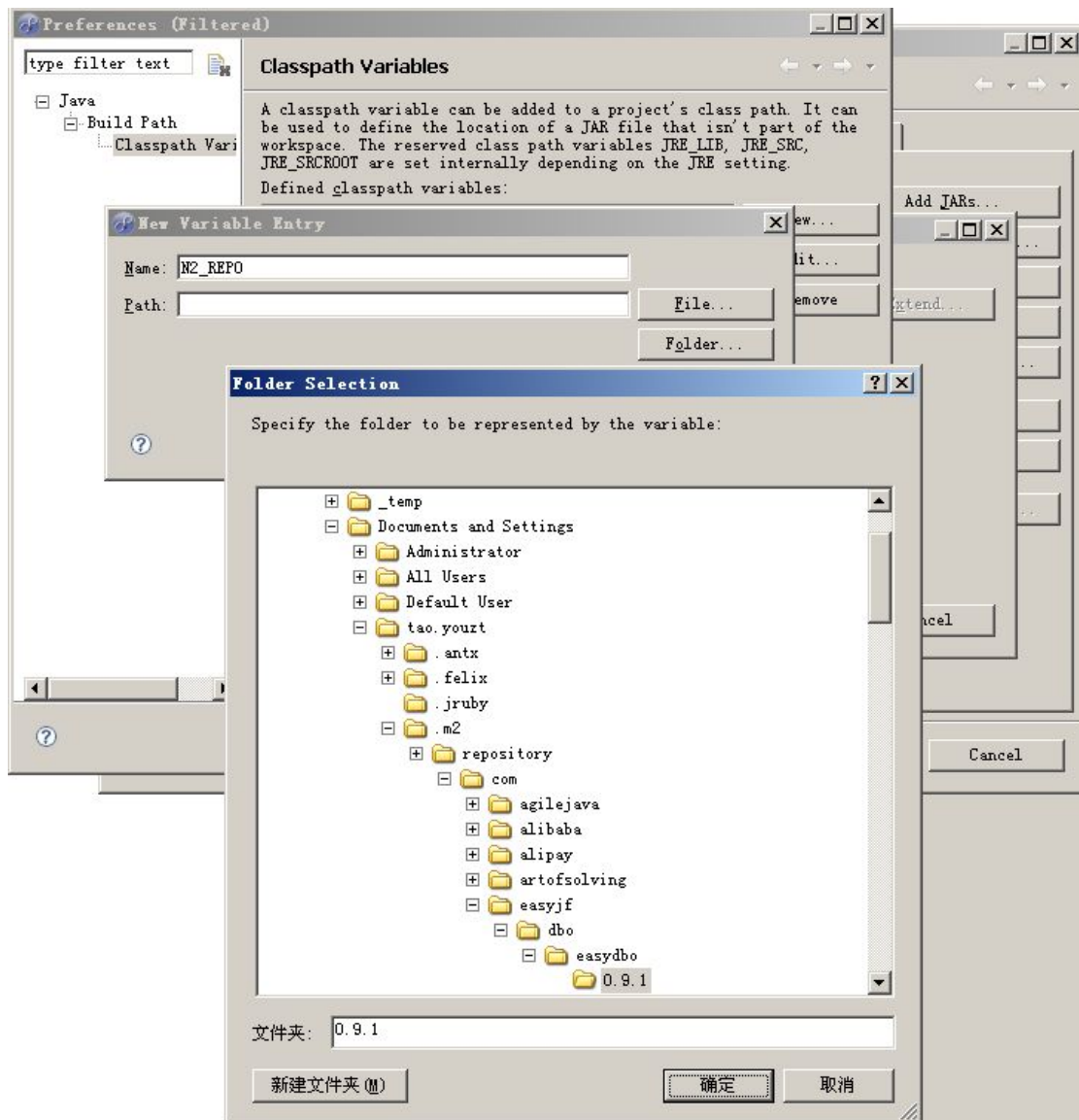


#### 5、点击 New 按钮



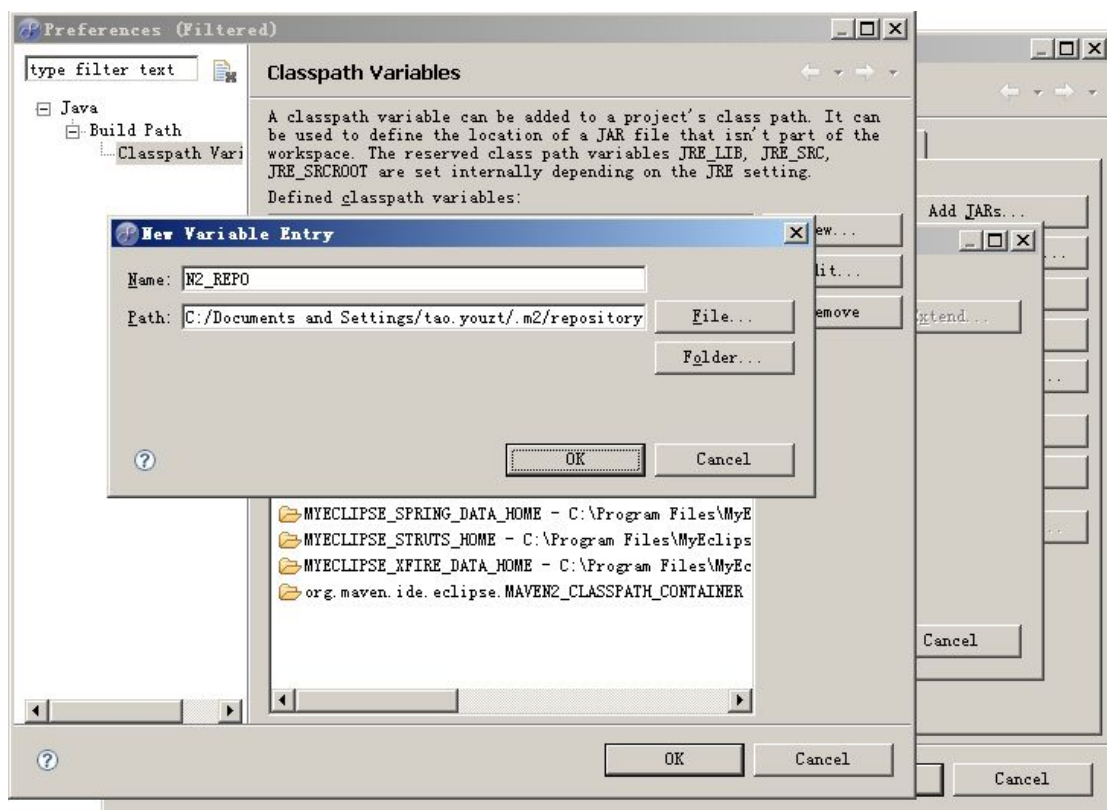
#### 6、在 Name 中输入 M2\_REPO

#### 7、在 Path 右边点 Folder 按钮

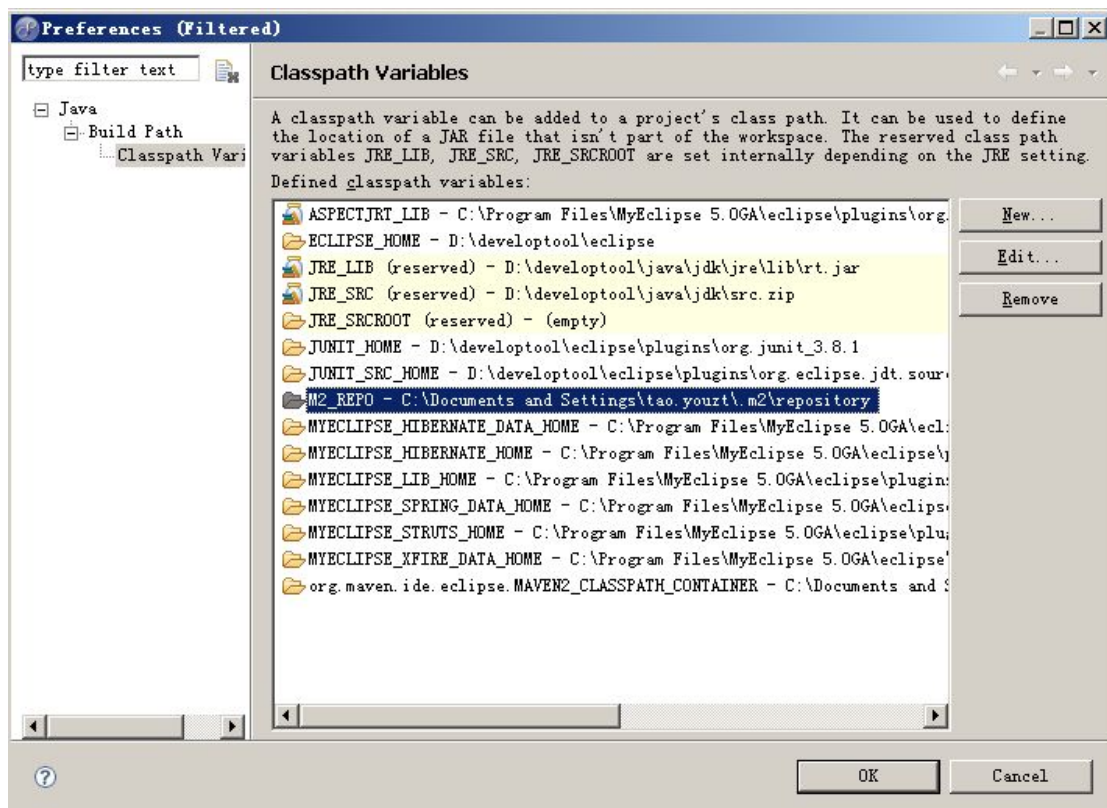


8、选择%user\_home%\repository 目录，确定

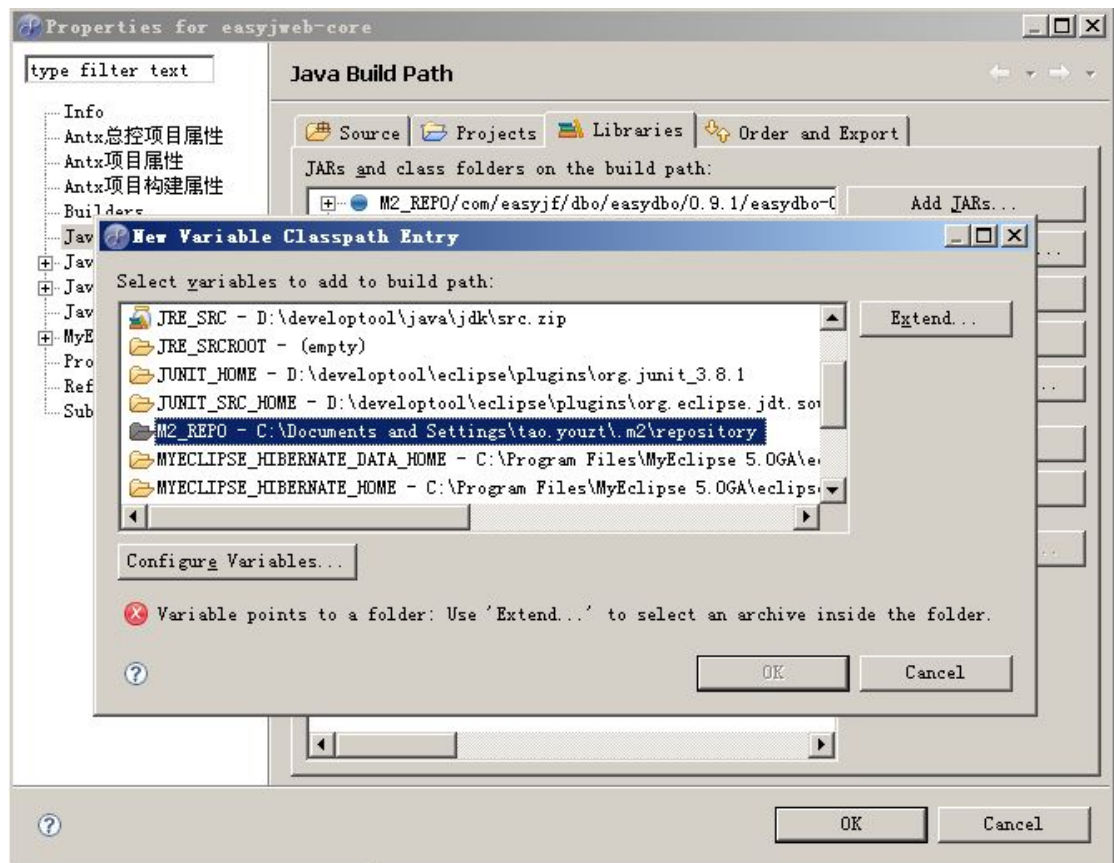




9、点 OK 按钮



10、点 OK 按钮



11、不用管红 X 提示，直接点 Cannel 按钮

12、刷新项目，大功告成！

## 2. 测试