# Animal Rescue – Development Environment Notes

## Links

[GitHub Repository](https://github.com/phillipbess/Greyhound-Rescue/tree/master/DevDocs)

[JetBrains](http://gpa.myjetbrains.com/youtrack/login)

## Development Environment Setup Process

**Setup GitHub**

**Setup Tomcat**

<http://tomcat.apache.org/download-70.cgi>

Unzip to c-drive. Should be in directory such as: “c:\apache-tomcat-7.0.50”

**Setup JEE Eclipse (Kepler, version 4.3.1 at this time)**

<http://www.eclipse.org/downloads/download.php?file=/technology/epp/downloads/release/kepler/R/eclipse-jee-kepler-R-win32-x86_64.zip&mirror_id=337>

Check for updates after installing (Help -> Check For Updates). Note, when launching Eclipse, specify “Greyhound Rescue” as the workspace directory.

**Setup MySql**

Install MySql

Create a catalog named “GPAGO”

Create a user named “GPAGO” and give this user full access to the “GPAGO” catalog.

# Setup Eclipse Workspace and Working Directory

1. Create a new directory to be used as the Eclipse workspace for Greyhound-Rescue. For example, create a folder named ‘c:\dev\projects\Greyhound-RescueWkSpace’.
   1. Note, Eclipse stores its settings in the workspace directory in a ‘.metadata’ directory. Using a different workspace directory allows all settings for the Greyhound-Rescue application to be isolated from any other applications or projects.
2. Create a new directory to be used as the working directory for the Greyhound-Rescue application resources. For example, create a directory named ‘c:\dev\projects\Greyhound-Rescue’.
3. Launch Eclipse and switch the workspace to the new directory that was created in step 1
   1. In Eclipse: File-> Switch Workspace -> Other
   2. Browse to and select the new workspace folder.
4. In Eclipse, add Apache Tomcat v7.0 as a new server runtime environment.
   1. Window -> Preferences -> Server -> Runtime Environments
   2. Select ‘Add’
   3. Select ‘Apache Tomcat v7.0’
   4. Hit ‘Next’
   5. Specify the Tomcat Installation Directory. Hit ‘Browse’ to browse to the ‘apache-tomcat-7.x.xx folder’.
   6. Hit ‘Finish’
   7. Hit ‘OK’
5. In Eclipse, show the git repositories view.
   1. Window -> Show View -> Other... -> Git -> Git Repositories
6. In the Git Repositories view, select ‘Clone a Git repository’.
   1. Enter <https://github.com/phillipbess/Greyhound-Rescue> for the URI.
   2. Hit ‘Next’
   3. Hit ‘Next’ again
   4. In the local Destination dialog
      1. browse to the directory that was created in step two. This is where the project files will go.
      2. Select ‘Import all existing projects after clone finishes’
   5. Hit ‘Finish’
7. Create a new server. To do this:
   1. Display the Servers View (Window -> Show View -> Other -> Server -> Servers)
   2. It should say “No servers are available. Click this link to create a new server...”
   3. Click the link
   4. Verify that “Tomcat v7.0 Server” is selected
   5. Hit Next
   6. Select the GPAGO project in the left pane and shuttle it to the right pane.
   7. Hit Finish.
   8. A server should now be displayed in the Server view. The name for the server will be something like “Tomcat v7.0 Server at localhost”
   9. Double-click on the server to display the “Overview” view.
   10. Click the “Open launch configuration” link.
   11. Select the “Classpath” tab
   12. Select “User Entries”
   13. Select “Add Projects...”
   14. Check the “Model” project
   15. Select OK
   16. Select OK
8. At this point, all of the Greyhound-Rescue projects should have been imported and are ready for use/development.
   1. To test this, open the GPAGO project and navigate to the managePets.jsp file located at ‘GPAGO / WebContent /admin’. Right-click on managePets.jsp and select ‘Run-As -> Run On Server’. Select the Tomcat v7.0 Server and hit ‘Finish’. A login screen should be displayed.