mgwt Toolchain - Windows 7

1. Download Java SE Development Kit 8.

http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html Install.

2. Download Eclipse IDE for Java EE Developers (Kepler SR2).

https://www.eclipse.org/downloads/packages/eclipse-ide-java-ee-developers/keplersr2 Unzip.

3. (This step is not necessarily needed for the use of mgwt, but might be helpful during our project.)

Install EGit (Git Plugin for Eclipse):

In Eclipse, click Help > Install New Software...

Select the EGit update site http://download.eclipse.org/egit/updates

Select all, click Next and follow the instructions of the installer.

You will need to restart Eclipse.

4. Download Apache Maven 3.2.1.

http://maven.apache.org/download.cgi

Unzip.

Open System Properties (WinKey + Pause), select *Advanced* tab, click *Environment Variables* button.

To system variables add

a. JAVA_HOME

path of your JDK, e.g. C:\Program Files\Java\jdk1.8.0 05

b. Path (prepend the value)

%JAVA HOME%/bin

To user variables add

c. M2_HOME

path of your unzipped Maven archive, ending with '...\apache-maven-3.2.1'

d. M2

%M2 HOME%\bin

e. Path (if already existing in user variables, prepend the value) %M2%

f. Optional:

MAVEN_OPTS

specify JVM properties, e.g. –Xms256m – Xmx512m.

Open new command prompt (WinKey + R, type *cmd*), run mvn --version to verify that it is correctly installed.

5. Install m2eclipse (Maven Plugin for Eclipse):

In Eclipse, click Help > Install New Software...

Select the m2e update site http://download.eclipse.org/technology/m2e/releases

Select *Maven Integration for Eclipse*, click *Next* and follow the instructions of the installer. You will need to restart Eclipse.

6. Install Google Eclipse Plugin.

In Eclipse, click Help > Install New Software...

Select the Google update site https://dl.google.com/eclipse/plugin/4.3

Select all, click *Next* and follow the instructions of the installer. You may have to install a few other things.

You will need to restart Eclipse.

7. Open new command prompt (WinKey + R, type *cmd*), go to workspace folder and run the following command:

```
mvn archetype:generate -DarchetypeRepository=http://www.m-gwt.com/m2/repo -DarchetypeGroupId=com.googlecode.mgwt.archetypes -DarchetypeArtifactId=mgwt-standard-archetype -DarchetypeVersion=1.0.8 Enter a groupId, an artifactId, a version and a package.
```

8. Make sure that Eclipse is not running. You only have to do this once per workspace:

ATTENTION: you have to replace /path/toyourworkspace with the respective path

```
mvn eclipse:configure-workspace -
```

Declipse.workspace="/path/toyourworkspace"

9. Create Eclipse project from Maven.

Go to generated project folder and run: mvn eclipse:eclipse

Rerun anytime your dependencies change.

10. Copy web resources into target.

run: mvn war:exploded

Rerun anytime you change something in src/main/webapp

11. Import project into Eclipse.

In Eclipse, click *File > Import...*, choose *Existing Projects into Workspace*, click *Next* and select the root directory of your project (i.e. your workspace). Select project and click *Finish*.

12. Configure Google Eclipse Plugin.

Right-click on imported project, click *Properties*. Select *Google* and expand the node, click *Web Application*. Check *This project has a WAR directory* and enter *src/main/webapp*. Uncheck *Launch and deploy from this directory*. Click *OK*.

Additional information:

- Start your project via right-click, Run As > Web Application.
 You need to choose target/"artifactId"-"version" as your war directory.
- If you have an error like this:

```
Loading modules

com.sigeso.sigeso

Loading inherited module 'com.sigeso.sigeso'

Loading inherited module 'com.googlecode.mgwt.MGWT'

Loading inherited module 'com.googlecode.mgwt.MGWTMin'

Loading inherited module 'com.googlecode.mgwt.ui.UI'

[ERROR] The value opera was not previously defined.

[ERROR] Line 19: Unexpected exception while

processing element 'set-property'
```

Change pom.xml:

Add this just before <build>:

```
<repositories> <repository> <id>sonatype-snapshots</id>
<url>https://oss.sonatype.org/content/repositories/snapshots/</url>
</repository> </repositories>
```

Change dependecy declaration to use 1.2.0-SNAPSHOT version

```
<dependency> <groupId>com.googlecode.mgwt</groupId>
<artifactId>mgwt</artifactId> <version>1.2.0-SNAPSHOT</version>
</dependency>
```

save pom.xml.

Open command prompt, go to project folder and run mvn eclipse:eclipse.

- When running, you are asked to install the GWT Developer Plugin for your browser.
 My recommendation is to use Google Chrome, as
 - o GWT Developer Plugin only supports Firefox 3.0 26.0.
 - o Internet Explorer is recognized as Firefox.
 - o There is currently no GWT Developer Plugin for Opera.
 - o There is currently no GWT Developer Plugin for Safari.