LC-2200 Eclipse Plug-in Development Setup Instructions

Installing Eclipse

- 1. Open a web browser
- 2. Navigate to the following URL and select a mirror to download the 64 bit version of "Eclipse IDE for Java Developers"
 - o https://eclipse.org/downloads/
- 3. Navigate to the downloaded archive file and move it to your home directory.
- 4. Extract the archive file in your home directory
- 5. Go into the eclipse folder that was extracted
- 6. Move your extracted JDK folder (ex: jdk1.8.0_91) to the eclipse directory (Only if java is not already installed and in PATH variable)
- 7. Rename the JDK folder from (jdk1.8.0_91) to "jre"
- 8. Run Eclipse and choose your default workspace

Configuring Eclipse - Installing Xtext SDK

- 1. Open Eclipse
- 2. Go to the help menu
- 3. Click "Install New Software"
- 4. Copy the following URL into the "Work with:" field
 - http://download.eclipse.org/modeling/tmf/xtext/updates/composite/releases/
- 5. Select the "Xtext SDK" package
- 6. Install the Xtext SDK package

Configuring Eclipse - Importing Projects

- 1. Open Eclipse
- 2. Go to the file menu
- 3. Click "Import"
- 4. Click "Browse" and select the "org.team38.assembly.parent" project folder
- 5. Make sure "Search for nested projects" is checked
- 6. Uncheck org.team38.assembly.parent from the "Projects:" window
- 7. Six projects should be checked:
 - org.team38.assembly
 - org.team38.assembly.feature
 - org.team38.assembly.ide
 - org.team38.assembly.tests
 - org.team38.assembly.ui
 - org.team38.assembly.ui.tests
- 8. Click Finish

Working with Xtext - Grammar file

- 1. Changes to the LC-2200 grammar should be made to the following file org.team38.assembly/src/org.team38.assembly/LC2200.xtext
- 2. After changes are made to the file, right click inside of the grammar file and select "Run as", and then "Generate Xtext Artifacts."
- 3. Note that regenerating artifacts may cause errors in classes that rely on generated classes (eg: code generation)

Working with Xtext - Feature Location

- Features that interact with the grammar can be found in the following locations:
 - Code Generation
 - org.team38.assembly/src/org.team38.assembly.generator
 - Eclipse Perspectives
 - org.team38.assembly/src/org.team38.assembly.perspectives
 - Semantic Validation Checks
 - org.team38.assembly/src/org.team38.assembly.validation

- Wizards
 - org.team38.assembly/src/org.team38.assembly.wizards
- Syntax highlighting
 - org.team38.assembly.ui/src/org.team38.assembly.ui
- ∘ Outline View
 - org.team38.assembly/src/org.team38.assembly.outline
- Content Assist
 - org.team38.assembly/src/org.team38.assembly.contentassist

Testing the plug-in

- 1. Right click org.team38.assembly in the project explorer
- 2. Select "Run as"
- 3. Choose "Eclipse Application"

Exporting the plug-in

- 1. Right-click the org.team38.assembly.feature project in the package explorer
- 2. Select "Export"
- 3. Select "Deployable features"
- 4. Select "org.team38.assembly.feature" in the "Available features" window
- 5. Select a directory to export the plug-in
- 6. Click Finish