Engenharia de Domínio
Mestrado em Engenharia Informática
PL 1
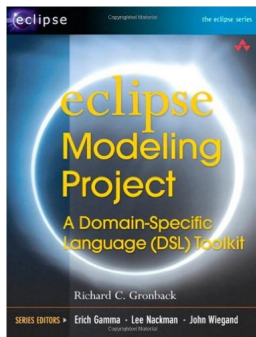### *Introduction to the Eclipse Modeling Project*

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EMF

Eclipse Modeling Framework (EMF) project is a modeling framework and code generation facility for building tools and other applications based on a structured data model.
(from https://eclipse.org/modeling/emf/).

The course "Engenharia de Domínio" is mainly based on the following book: "Eclipse Modeling Project: A Domain-Specific Language (DSL) Toolkit", Richard C. Gronback, Addison-Wesley Professional, 2009

Simple Startup Steps

Eclipse is the integrated development environment (IDE) that will be used in this course. The Eclipse platform aggregates Eclipse based applications and plugins. The latest version is Oxygen (Eclipse version 4.7).

1. Install "Eclipse IDE for Java Developers" from `http://www.eclipse.org/downloads/packages/eclipse-ide-java-developers/oxygenr`:

   - Select the download link that is in accordance to your platform and follow the steps to install

   - Start Eclipse and go to Help –> Install New Software.... and proceed as indicate in the image to install modeling plugins.
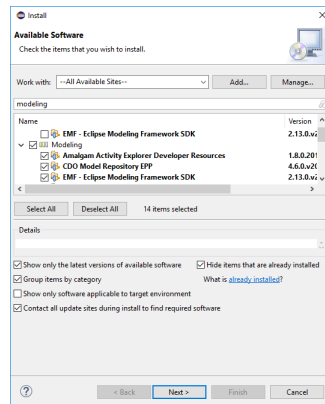

Figure 1: Installing Modeling plugins

Additional Tools

Later on you may also need the following additional components/tools:

- **git** This may be useful if you prefer to use the command line for version control (https://git-scm.com)
- **sourcetree** This may be useful if you prefer a dedicated UI for version control (https://www.sourcetreeapp.com)
- **gradle** This may be useful during the project (https://gradle.org)
- **gwt** This is necessary to work with the project (http://www.gwtproject.org/download.html)
- **gwt eclipse plugin** This is necessary to work during the project (http://gwt-plugins.github.io/documentation/gwt-eclipse-plugin/Download.html)
- **epsilon eclipse plugin** This may be helpful for some modeling tasks (http://download.eclipse.org/epsilon/updates/)

Note: These are the base tools. More tools may be necessary. If so, students will be informed.

- Students must form teams of three members (of the same class section!)
  (**Should be done during the first week!**)