

Lab 4 – UML

How to start UMLet as Eclipse-Plugin?

Download the "com.umlet.plugin*.jar" file from <http://www.umlet.com/> and copy it to Eclipse's plugin directory.

The screenshot shows the Umlet website with a sidebar on the left containing links for Download, Screenshots, Sample diagrams, FAQ, Eclipse plug-in info, User comments, and Source code. Below this is a section for bugs or requests with links to Create code ticket and info@umlet.com. Further down is a section for other tools listing UMLetino, MonteCarlito, PLOTlet, and SQLet. A large green arrow points downwards from the sidebar area to the 'New in Umlet 13.2' section. This section is titled 'New in UmLet 13.2 stand-alone and UmLet 13.2 Eclipse plugin' and lists two items: 'Improved relations' and 'Various zoom issues fixed'. The number '(1)' is positioned to the left of the sidebar, and the number '(2)' is positioned to the left of the 'New in Umlet 13.2' section.

(1)

New in UmLet 13.2 stand-alone and UmLet 13.2 Eclipse plugin

- Improved relations
- Various zoom issues fixed

(2)

To create a new, empty UMLet diagram in Eclipse,

1. Select a directory in the Eclipse resource navigator;
2. Select "File/New/Other..." from the menu or the context menu; in the subsequent wizard,
3. Select "UMLet/Diagram".

More...

- Get started with UMLet: <https://www.youtube.com/watch?v=sOXmGKhNXMc>
- Custom elements tutorials: <http://www.umlet.com/ce/ce.htm>
- Video tutorial: Basic Use and Custom Elements (<https://www.youtube.com/watch?v=3UHZedDtr28>)
- Online sample diagrams: <http://www.itmeyer.at/umlet/uml2/>

How to create use cases?

Referring to...

- UMLet tutorial for Context, UC, and Sequence Diagrams:
<https://www.youtube.com/watch?v=HVSxE296JLc>

How to create sequence diagrams?

Change the current palette to "Sequence - all in one". Add the sequence diagram element to the diagram via double-click.

This element's markup language is slightly more complex. The main idea is that each lane has a name and an ID (defined by the string "`_name~ID_`"). The IDs can then be used to define messages between lanes, e.g., "id1->id3".

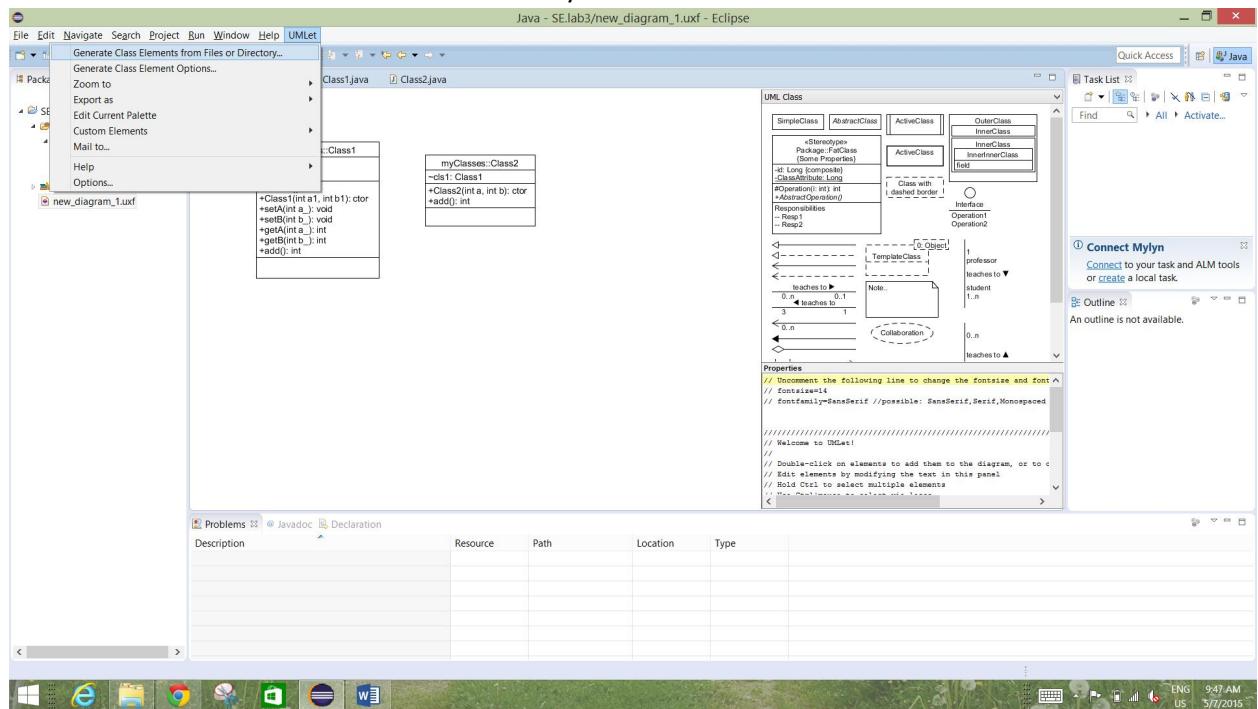
How to create activity diagrams?

Change the current palette to "Activity - all in one". Add the activity diagram element to the diagram via double-click.

Here, TABs in the element description are used to define the activity forks.

How to create class diagrams?

- Generate Class Elements from Files or Directory...



Subject: Software Engineering

- Choose available java class files to generate class elements.
- An example of using the umlet plugin for Eclipse to make UML class diagrams:
https://www.youtube.com/watch?v=7LDiw9K_KKo

Exercises

- Draw use case diagrams in the online sample diagrams.
- Draw use cases in your project → Document.
- Design ERD using Visio → Document.
- Draw class diagrams in the online sample diagrams.
- Draw class diagrams using UMLet → Document.

References

- [1] <http://www.umlet.com/>
- [2] <http://www.itmeyer.at/umlet/uml2>
- [3] Sample diagrams: <http://www.itmeyer.at/umlet/>