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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.

(1)

(2)

To create a new 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 UML elements: 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/

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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".
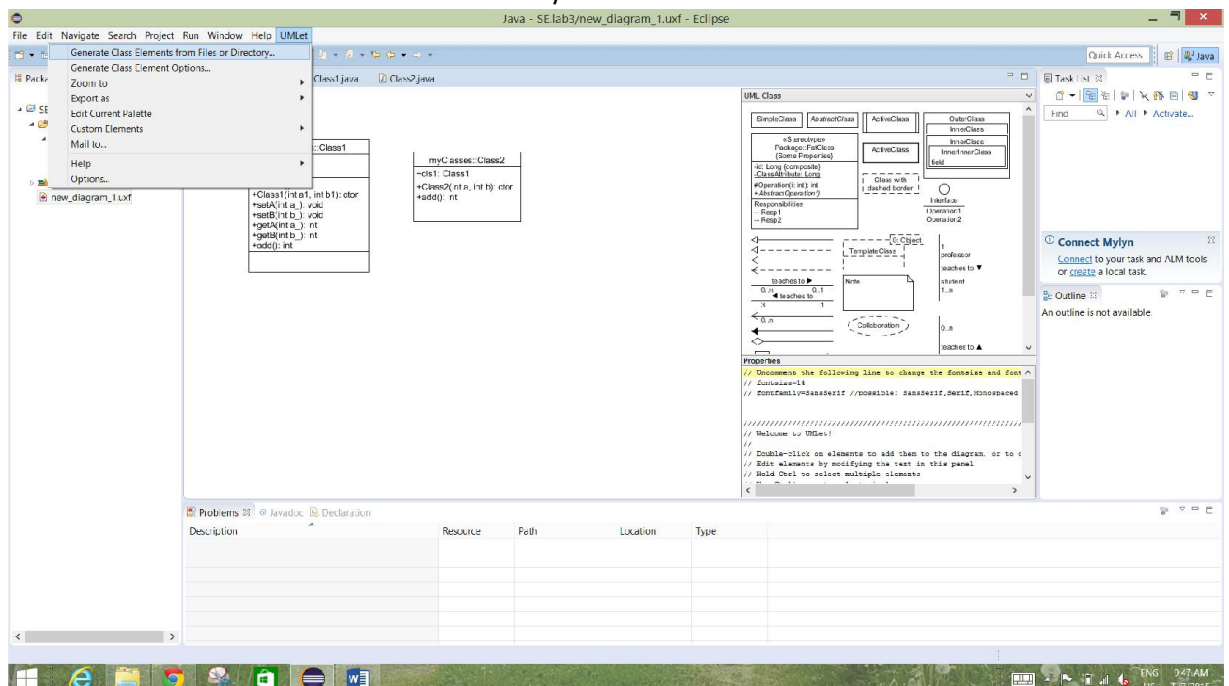
How to create activity diagrams?

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…

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- 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 [3]
- Draw use cases in your project → Document.
- Design ERD using Visio → Document.
- Draw class diagrams in the online sample diagrams [3].
- 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/

[4] A diagram editor: http://diagram.io/