UML Use Case Diagram Editor based on GLSP

The UML **Use Case Diagram Editor** is an extension to the UML GSLP Project and implements its functionality for developing uml use case diagrams

Uml GLSP provides a web-based editor for UML Models (including Diagrams), integrated with Eclipse Theia. It contains three components: one Model Server (Server-side, written in Java), one GLSP language server (Server-side, written in Java), and one GLSP client extension to actually present the diagrams (using Sprotty).

The original Uml GLSP can display an existing UML model as a class diagram, this implementation no extends this to also display use case diagrams. When creating a new diagram, first a name must be given, then the type needs to be specified (other types than class and use case are implemented by other projects). The diagram layout will be persisted in an `.unotation` file next to the `.uml` file. The diagram editor also supports creation of new elements (Classes, Properties and Associations), as well as partial support for editing existing elements (Renaming, deleting...).

Prerequisites

The following libraries/frameworks need to be installed on your system:

Node.js	`>= 12.14.1 AND < 13`
Yarn	`>=1.7.0`
Java	`11`
Maven	`>=3.6.0`
Git	`>= 2.11.0`

The editor is heavily interweaved with Eclipse Theia, so please also check the prerequisites of Theia.

The web-based/client part of the editor has been developed using Visual Studio Code and the server/java part has been developed with the Eclipse IDE.
Settings for codestyle are provided for both IDEs, however, it's of course also possible to use any other IDE or text editor.

Getting started

Clone the uml-glsp editor:

```
git clone https://github.com/eclipsesource/uml-glsp.git
```

Build

The server components have to be built using Maven, the client component has to be built using yarn. This can be done via CLI:

```
cd server && mvn clean install && cd ..
cd client && yarn && cd ..
```

Resolving build issues under Windows/MacOS

- Missing build tools result in following error:

  ```
  gyp err! stack error: could not find any visual studio installation to use
  ```

  - Windows:
    - Install via `npm install --global --vs2015 windows-build-tools`
    - Check that `npm config get msvs_version` returns `2015`
  - Mac OS:
    - Install [Xcode](#) developer tools

Run

```
cd client && yarn start
```

Start your browser on http://localhost:3000.

Open diagrams (`*.uml`)

- Add/Delete/Rename support for the following UML Elements: `Class`, `Property`, `Association`

Create new diagrams

- via menu entry `File -> New UML Class Diagram`
- via explorer context menu entry `New UML Class Diagram`
- via command palette `File: New UML Class Diagram`
- the name of the diagram needs to be stated followed by the diagram type (as stated below the text field)

For detailed information on running and debugging the [server](#) and [client](#) components, please see their respective READMEs.

More information

For more information, please visit the [EMF.cloud Website](#). If you have questions, contact us on our [spectrum chat](#) and have a look at our [communication and support options](#).