Installation Guide

For

Blended Modeling Framework
(PSS Use Case)

1. Prerequisites

- Eclipse IDE for Java Developers (Version 2020-12 or above)
- Java SE 16 or above
- Acceleo Version 3.7.1
- WindowBuilder Version 1.9.6
- Javafx-SDK Version 11.0.2
- JavaCC Eclipse Plug-in
- Eclipse Obeo Designer Community Edition - Version 11.3 or above

2. Download Instructions

PSS repository is available at GitHub: https://github.com/blended-modeling/PSS or https://github.com/MDH-BUMBLE/PSS/

Five projects are available as shown in **Figure 1**. Download projects on system
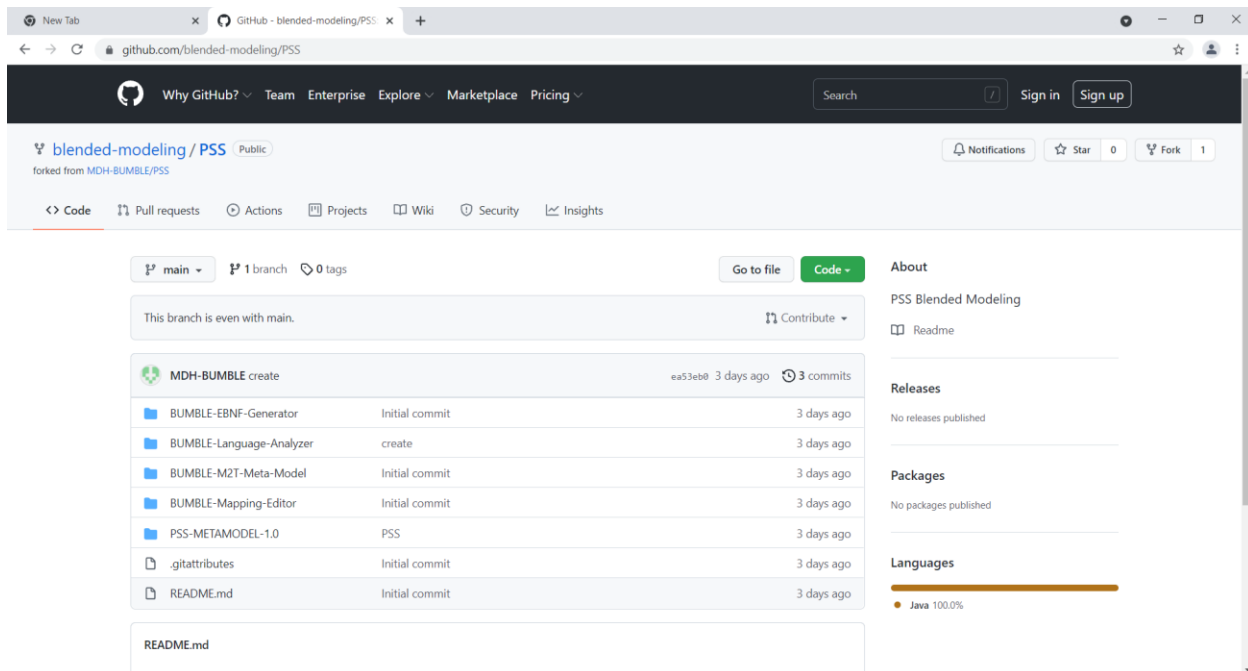

Figure 1: PSS Repository on GiHub

2.1 Import or Open Projects in Eclipse

You can import or open projects in eclipse like: - open file menu and navigate to either "import" or "open projects from file system" and select required projects. Subsequently, all projects are available in Eclipse as shown in **Figure 2**.
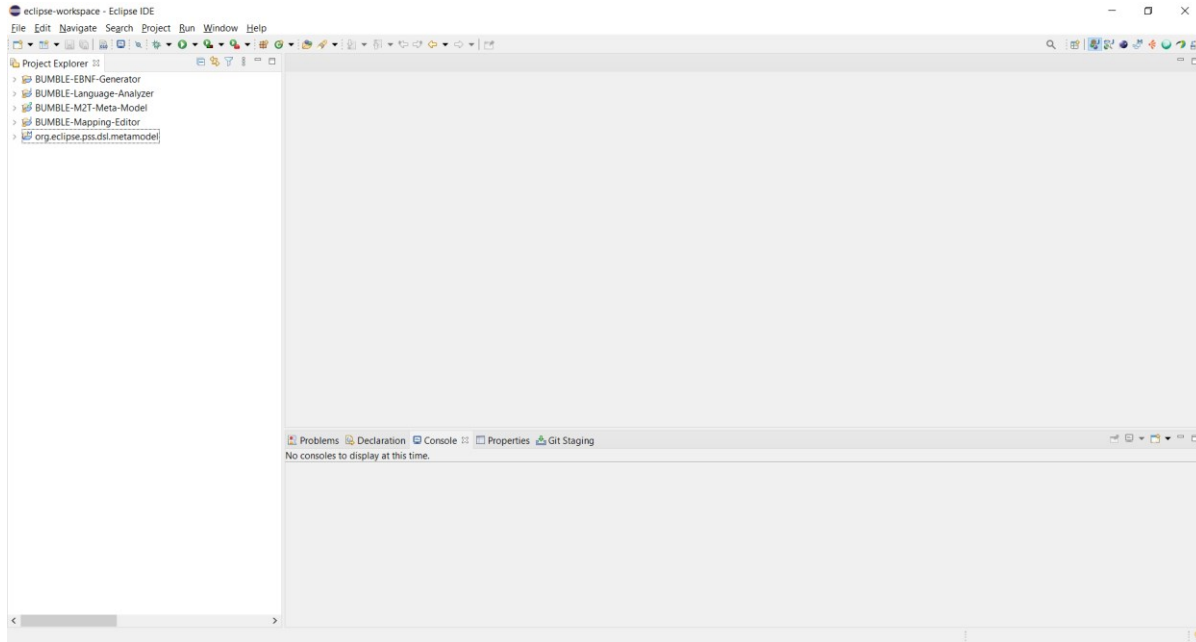
Figure 2: Import or Open Projects in Eclipse

2.2 Execution in Eclipse

The projects such as "BUMBLE Language Analyzer", "BUMBLE Mapping Editor" and "BUMBLE EBNF Generator" can be executed like: - right click on project and select run as java application, as shown in **Figure 3**.
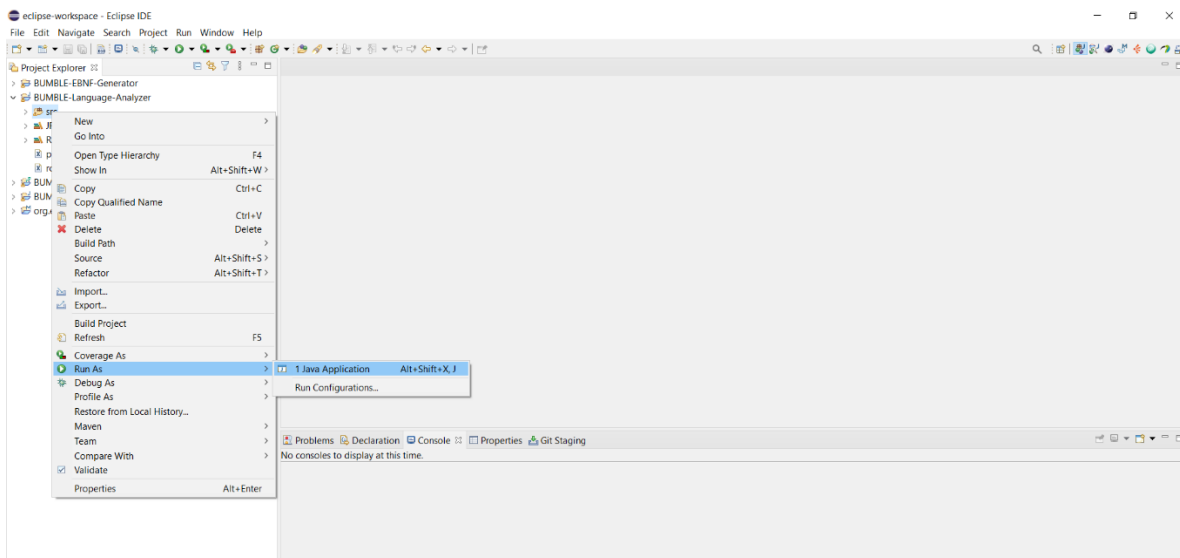

Figure 3: Execute Projects in Eclipse

For BUMBLE-M2T-Meta-Model project, it is required to specify the address of meta-model and target folder. This can be done as: right click project and move to "run as" and select "run configurations". This will open interface as shown in **Figure 4**. Here you can specify the address of meta-model and target folder.
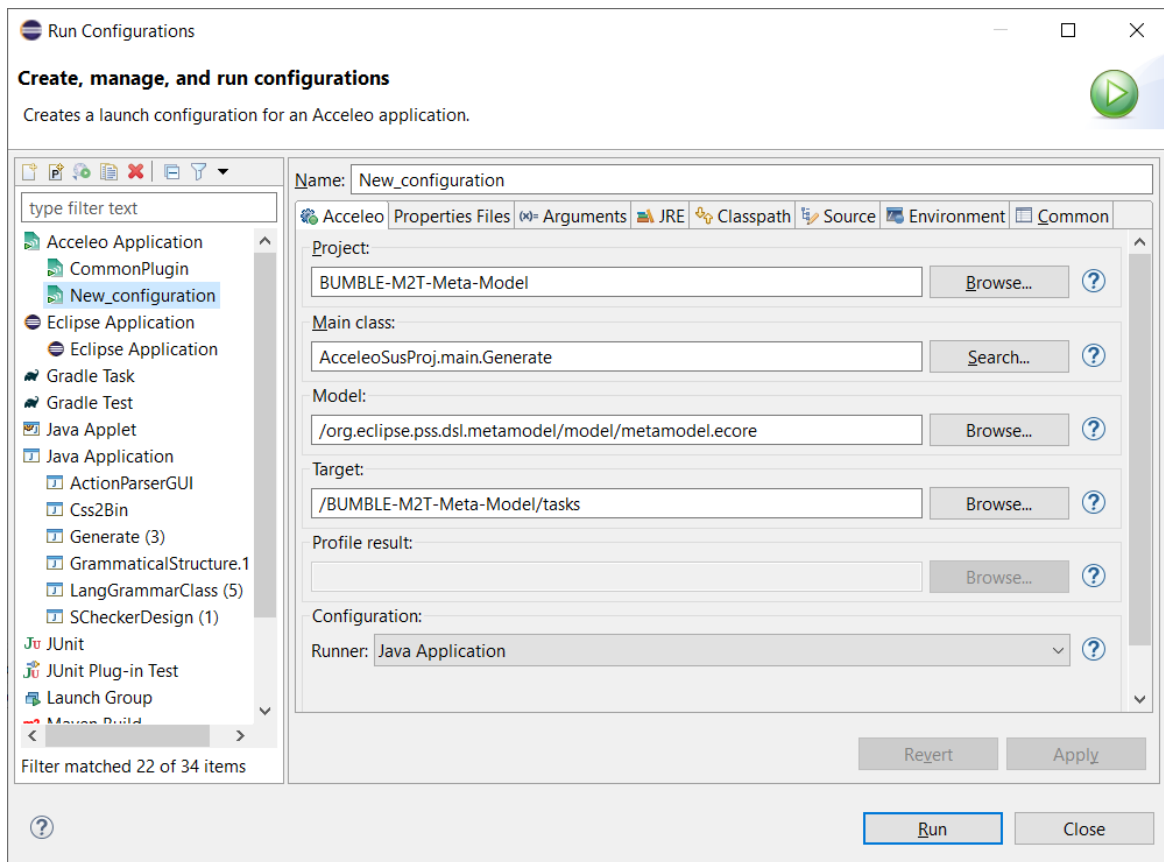
Figure 4: Specification of Meta-Model and Target Folder through Run Configurations

PSS meta-model is available in "pss.dsl.metamodel" and you can view / edit it as shown in **Figure 5**.
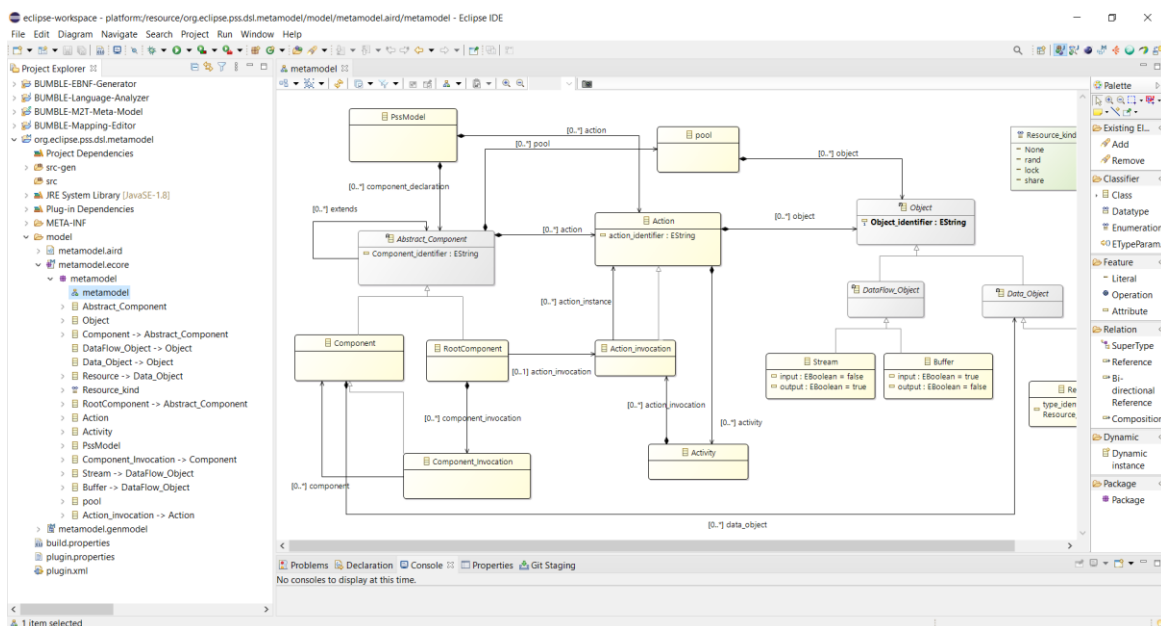

Figure 5: PSS Meta-Model

Finally, you can open PSS blended modeling editor in Obeo Designer Community. There are four folders in "PSS meta-model 1.0" as shown in **Figure 6**. The last folder (i.e. runtime-DSL) contains PSS blended modeling editor.

Name	Date modified	Type	Size
org.eclipse.pss.dsl.metamodel	9/29/2021 1:08 AM	File folder	
org.eclipse.pss.dsl.metamodel.edit	9/29/2021 1:08 AM	File folder	
org.eclipse.pss.dsl.metamodel.editor	9/29/2021 1:08 AM	File folder	
runtime-DSL	9/29/2021 1:08 AM	File folder	
.project	9/18/2021 10:43 PM	PROJECT File	1 KB

Figure 6: Contents of "PSS meta-model 1.0" folder

In Obeo designer, open PSS meta-model (including edit and editor as well) as shown in **Figure 7**.
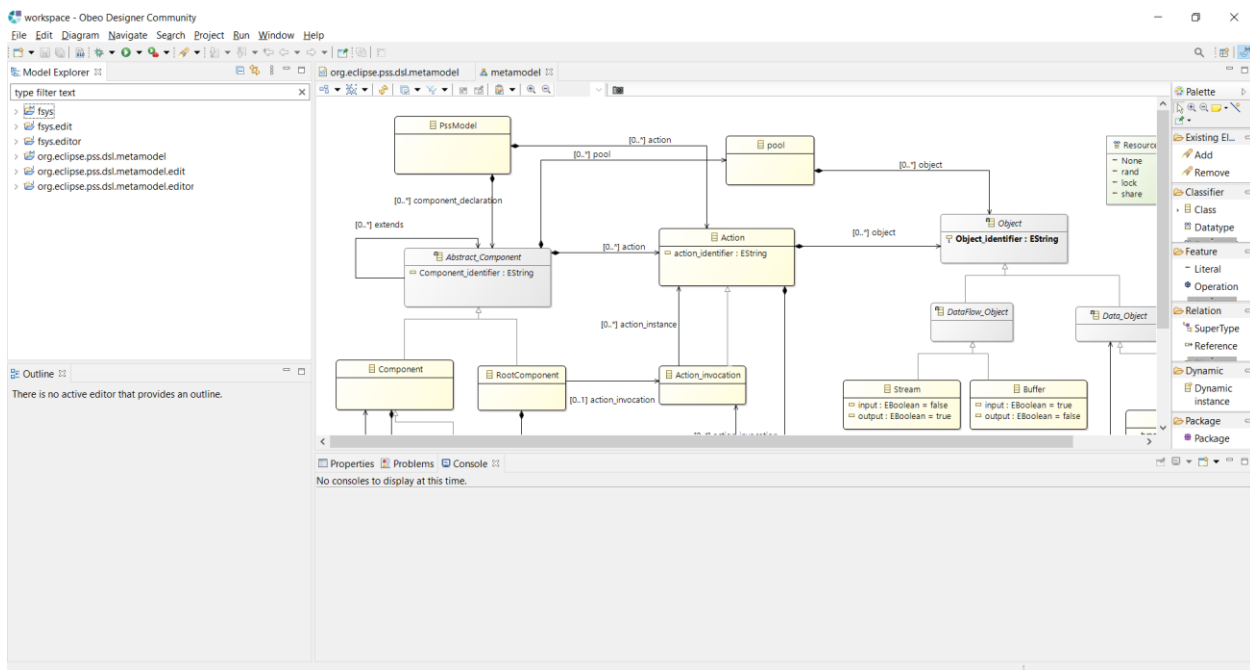

Figure 7: PSS Meta-Model in Obeo Designer

Now, open runtime instance as: select "pss.dsl.metamodel" project and navigate to "run as" and select "Eclipse Application" as shown in **Figure 8**.
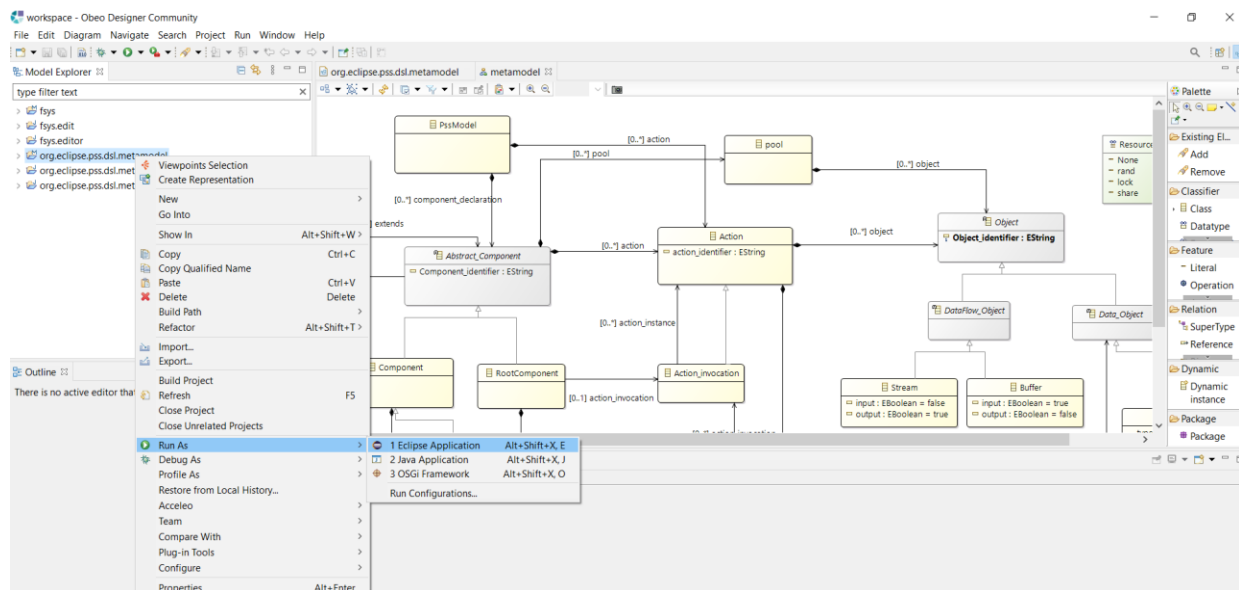
Figure 8: Eclipse Runtime in Obeo Designer

Now, you can open runtime-DSL containing PSS blended modeling editor as shown in **Figure 9**.
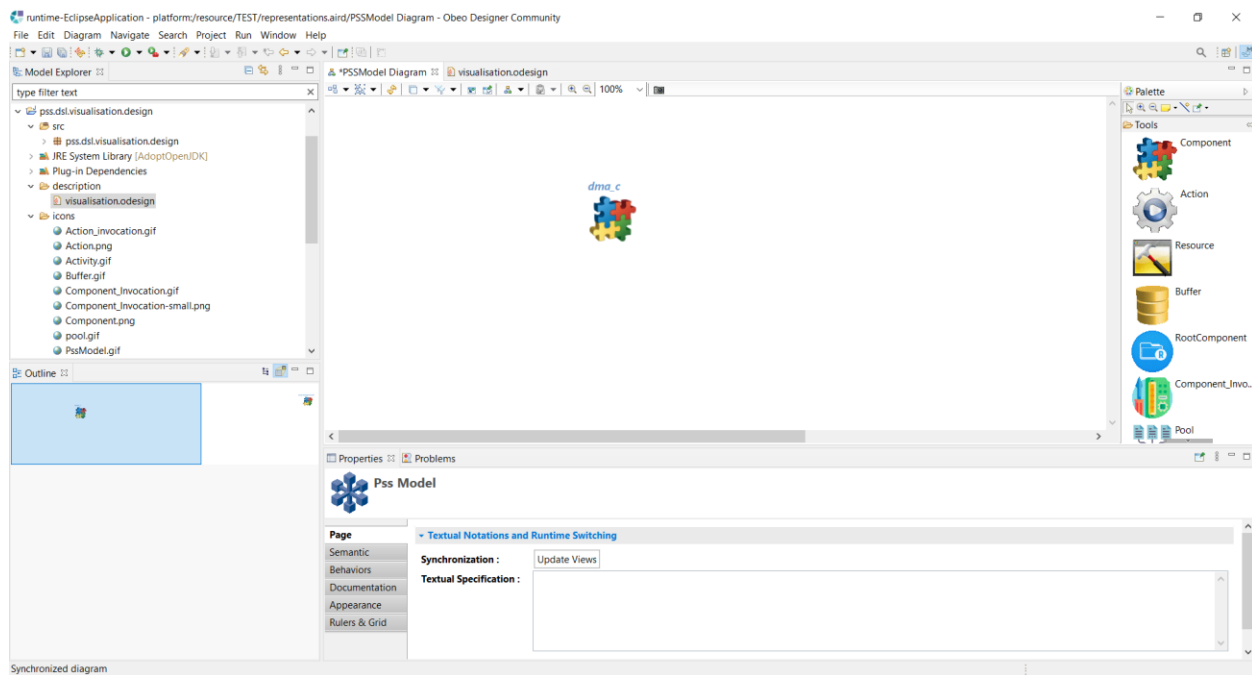

Figure 9: PSS Blended Modeling Editor

Please note that this document only provides installation guidelines. The purpose and detailed working of each component is available in user manual.