

**StarUML Information Model Guide 1.0**

I

nformation models can be automatically generated from StarUML through extensions developed by Centric Consulting. This document describe elements that may be used in construction of an Information Model

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Introduction

# StarUML Extension

The StarUML extension is currently housed in GitHub. Paste the following URL into the StarUML extension manager:

<https://github.com/jkanel/staruml-infomodel>

This will automatically install the extension, making several menu items available under the “Export” menu.

# Software

The extension is implemented using several technologies.

* Node.js – Consists of Main.js and InfoModelExport.js files. These are used to setup extract files / folders and execute the java application.
* Java – com.centric.infomodel.jar file converts the StarUML Json to an Xml file and executes an Xml transformation.
* Xslt – centric.infolibrary.xslt and centric.infomodel.xslt generate resulting text and html files, respectively.

The java project is maintained in the following GitHub repository:

https://github.com/jkanel/staruml-infomodel-java

The extension, Node.js and Xslt files are maintained in the following GitHub repository:

https://github.com/jkanel/staruml-infomodel

# Xml Transformation

## Xml Elements

The following Xml Elements are created through the

|  |  |  |  |
| --- | --- | --- | --- |
| Element | Parent Element(s) | Description | StarUML Element |
| domain | (root) | Grouping of related subjects, often corresponding to an industry. | Project |
| subject | domain  subject | Grouping of interacting entities. Entities may span subjects. | Model  Subsystem |
| diagram | subject | Diagram of entities and enumerations. | Diagram |
| entity | subject | Concept described by attributes, having associated measures and constraints | Class |
| constraint | entity | Limitations on an attribute or combination of attributes. | Constraint |
| attribute | entity | Property of an entity. | Attribute |
| measure | entity | Aggregation across or more entities | Operation |
| enum | subject | Collection of instances of an entity | Enumeration |
| instance | enumeration | Conceptual instance (or occurrence) of an entity | Enumeration Literal |

## StarUML Objects

|  |  |
| --- | --- |
| StarUML | Mapped Xml Element |
| Project | Domain |
| Model | subject |
| Subsystem | Subject |
| diagram | Diagram |
| Class | Entity |
| attribute | Attribute |
| Operation | Measure |
| enumeration | Enumeration |
| Enumeration Literal | Instance |