

**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

Table of Contents

[Introduction 2](#_Toc515445243)

[StarUML Extension 2](#_Toc515445244)

[Software 2](#_Toc515445245)

[Xml Transformation 3](#_Toc515445246)

[Xml Elements 3](#_Toc515445247)

[StarUML Objects 4](#_Toc515445248)

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 Information Model Xml elements are generated from StarUML.

|  |  |  |  |
| --- | --- | --- | --- |
| 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  attribute | 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 |

Document Properties

|  |  |  |  |
| --- | --- | --- | --- |
| Element | Type | Description | StarUML Element |
| Project | Project Element | Descr | Model |
| Domain | Domain Element |  |  |

Domain Properties

|  |  |  |  |
| --- | --- | --- | --- |
| Element | Type | Description | StarUML Element |
| Subject | Subject Element | Group of interacting entities that interact in the domain. | Model |
|  |  |  |  |

## 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 |