

MonitorDSL, MappingDSL and generationTarget

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A formal language for specifying functional requirements using LTL, PLTL and/or MTL logic operators.

- MappingDSL maps domain names to identifiers and Java classe.
- MonitorDSL allows the user to formulate functional requirements.
- generationTarget contains classes used when running the generated code.

Created as a part of my masters thesis "*Design einer formalen Sprache für die Spezifikation und Verifikation funktionaler Anforderungen an autonome Systeme*" at TU Dortmund.

Tested on

- Device A
 - Eclipse DSL: Version 2019-09 R (4.13.0)
 - Java: Version 1.8.0.0_191
 - OS: Windows 10 1803
 - Date: 2020-01-17
- Device B
 - Eclipse DSL: Version 2019-12 (4.14.0)
 - Java: Version 13.0.2
 - OS: Windows 10 1809
 - Date: 2020-01-17

Used libraries:

- JScience 4.3.1 <http://jscience.org/>
- sqlite-jdbc 3.27.2.1 <https://github.com/xerial/sqlite-jdbc>

Usage:

- Import with Eclipse DSL
- Right Click > `/bergmann.masterarbeit.mappingdsl/src/bergmann/masterarbeit/mappingdsl/MappingDSL.xtext` > Click **Generate Xtext-Artifacts**, ignore errors caused by files that are missing at this point
- Right Click > `/bergmann.masterarbeit.monitordsl/src/bergmann/masterarbeit/MonitorDsl.xtext` > Click **Generate Xtext-Artifacts**, ignore errors caused by files that are missing at this point
- Right click DSL project > **Run as... > Eclipse Application** to launch a new Elipse instance.