



Creating Domain Specific Languages

Level: Intermediate

Prerequisites: Introduction to Domain Specific Languages. Experience with Eclipse, IBM(R) Rational(R) Software Architect, UML, Java(TM) and XML.

Audience: Software Architects, Developers

Approach: Lecture, Discussions, Workshop

Length: 2 Days

Workshop Description

Building on the foundation from the Introduction to Domain Specific Languages workshop, in this workshop, we take a deep-dive, hands-on look at how DSLs should be created.

Students gain hands-on experience with customizing and using Eclipse and IBM Rational products to define and implement a DSL solution. They will work with a range of technologies that can be used to implement a DSL:

Eclipse:

- Defining a text-based DSL, editor and code generator using xText and xPand.
- Defining a graphical DSL using EMF and GMF.

IBM Rational Software Architect:

- Examination of UML and the use of UML Profiles as the underlying foundation for a DSL.
- Customization of the user interface and code generation capabilities to incorporate use of a DSL.

At the conclusion of this workshop, participants understand how to develop a practical real-life DSL and modeling environment using Eclipse and IBM Rational Software Architect.

Related Workshops

For students interested in continued learning in this field, we suggest taking:

- Introduction to Patterns-Based Engineering
- Pattern Implementation Workshop

About The Emphasys Group

The Emphasys Group brings a unique and exceptional blend of experience and expertise focused on infusing reuse, automation and agile best practices into software delivery organizations.

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