

Rapid Web Application Development using EMF + Grails

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The Problem

Current Rapid Web Application Frameworks typically use MVC.. but they all lack graphical tools for their domain modeling

Want rapid development framework + graphical domain models!!

The Solution

Join together a solid modeling framework
with a solid rapid development framework

Let's try: EMF + Grails!

Architecture Overview

EMF:

- Ecore (Meta-model about classes)
- GenModel (Model about code gen)

Grails:

- Groovy (a Dynamic Language on Java)
- GORM = Maps Groovy classes to RM

Grails = Groovy + Hibernate + Spring + ...

Architecture Overview



GRAILS

Java
Enterprise
Edition (JEE)

Spring

Hibernate

Groovy

Java Language

JDK
Java Development Kit

Java Virtual Machine

Implementation Process

1. Create your Ecore Model (diagram tools)
2. Create your GenModel
3. Transform EMF to Grails*
4. Develop Grails Application with Generated classes

Demonstration

Discussion

Future work:

- Change Model based on Grails code changes
- Make an EMF2Grails Eclipse Plugin

Note: EMF was VERY VERY difficult to work with!

Would this improve your rapid application development?