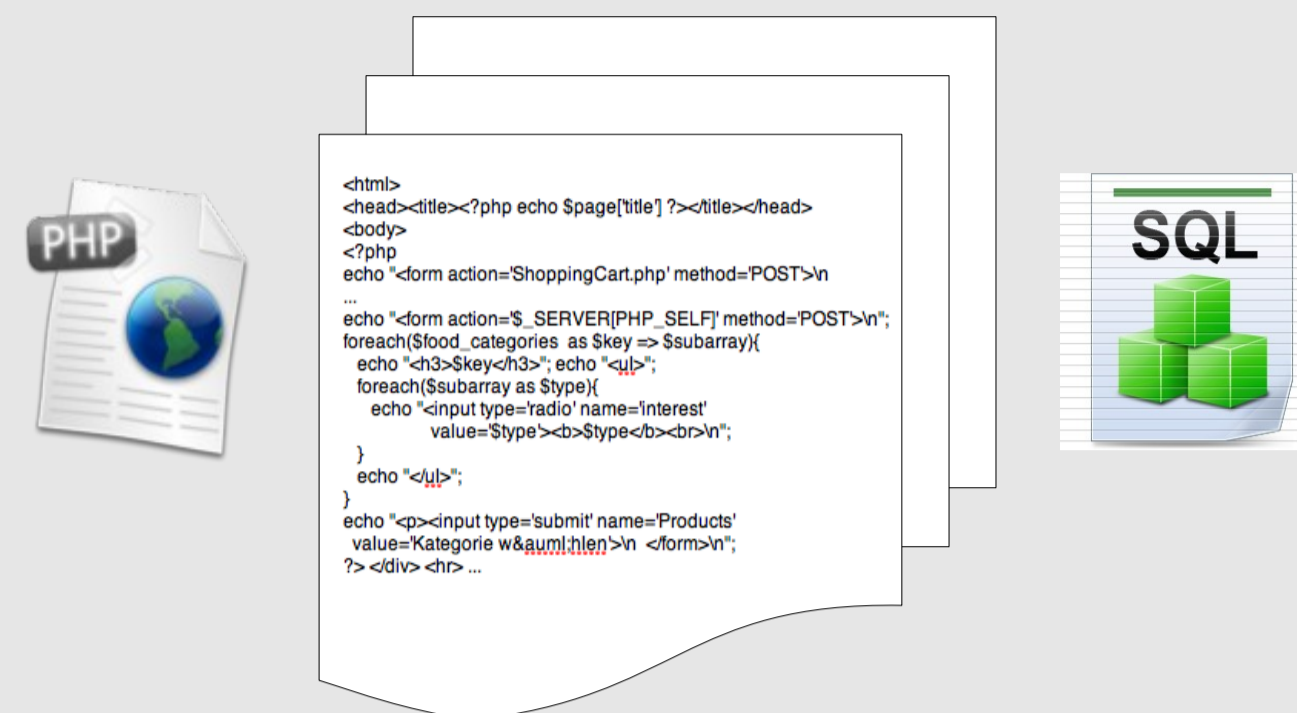


# FROM LEGACY WEB APPLICATIONS TO WEBML MODELS A Framework-based Reverse Engineering Process

Max Rieder

## Legacy Web Application



### Technologies

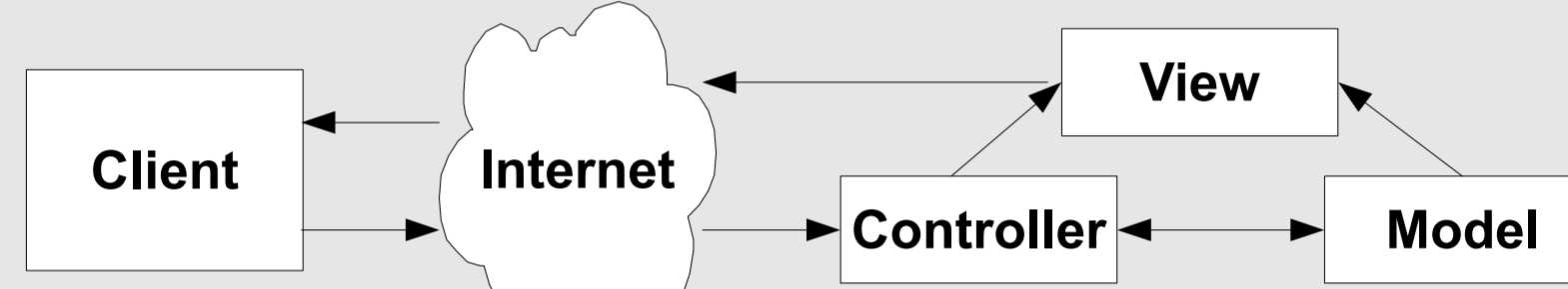
- PHP OOP
- PEAR DB
- Propel ORM
- Symfony MVC

**Refactoring  
to a MVC  
Web Application**

### Steps

- Database Normalization
- Separation of
  - Business Logic
  - Data Access Logic
  - Presentation Logic

## MVC Web Application



**Code 2 Model  
Transformation**

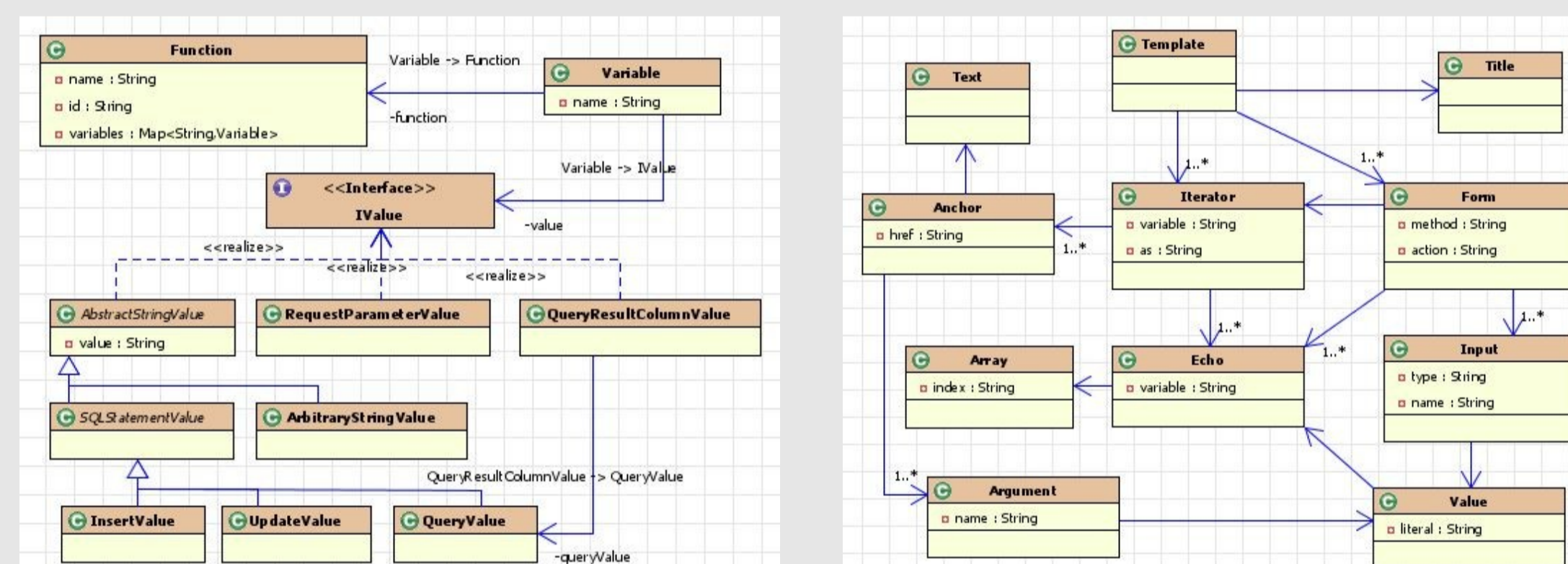
### Technologies

- JAXB XML Binding
- Jericho HTML Parser

### Steps

Code Elements are transformed into MVC Elements based on Metamodel Correspondences

## MVC Model



**Model 2 Model  
Transformation**

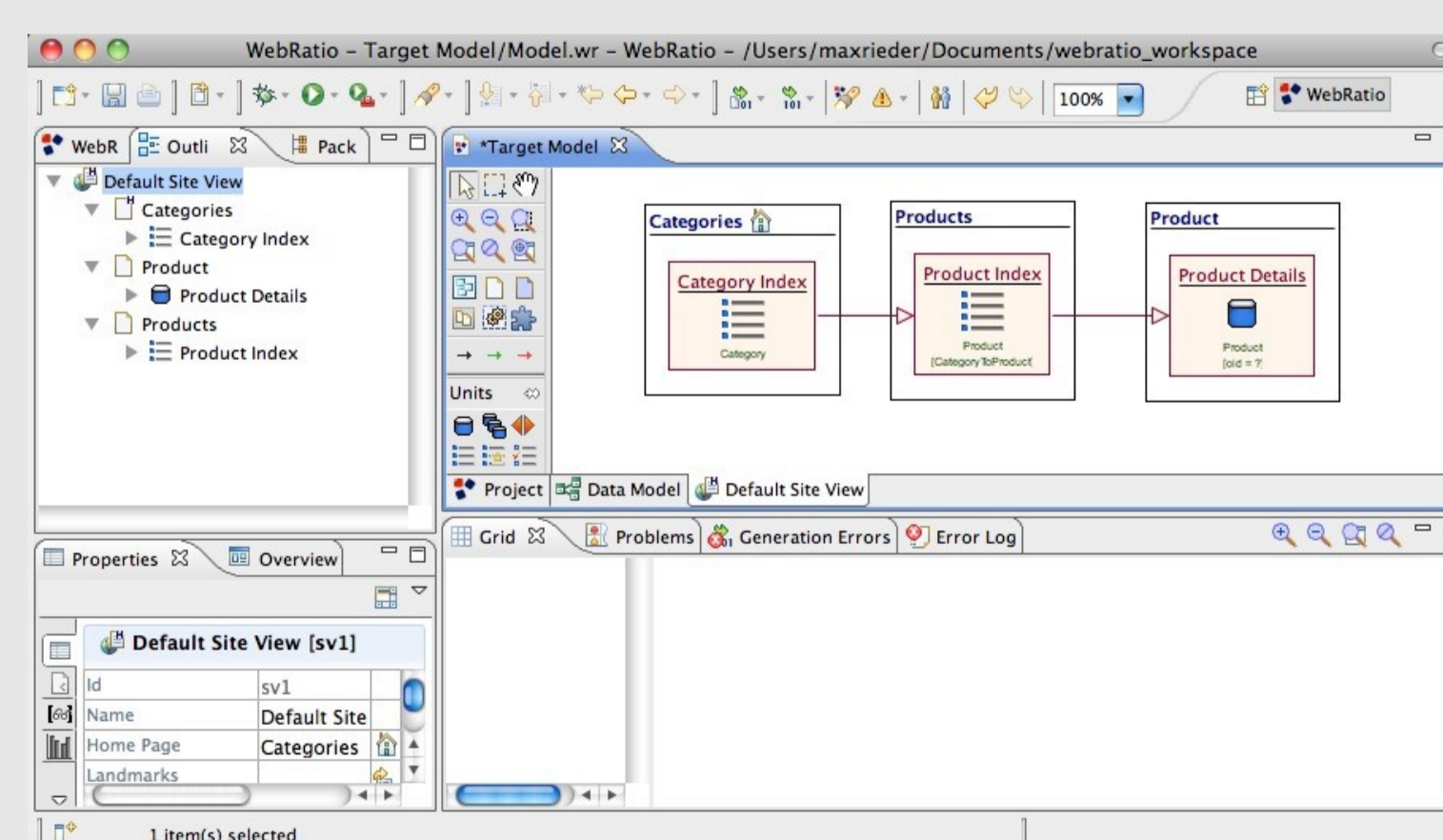
### Technologies

- JavaCC
- JJTree

### Steps

Transformation of the Database Model and the MVC Model into a WebML Model based on Metamodel Correspondences

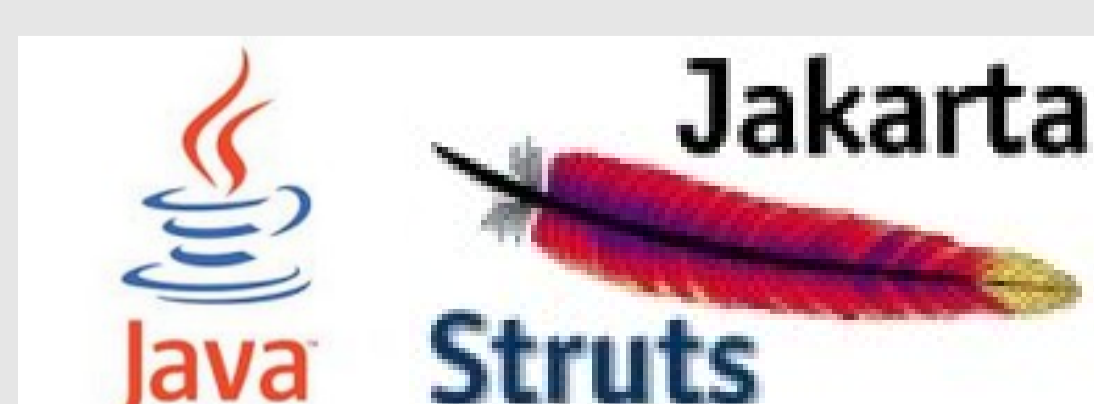
## WebML Model in Web Ratio<sup>\*)</sup>



\*) <http://www.webratio.com>

**Code Generation  
for Java Platforms**

**Java Struts Web Application**



**Code Generation  
for .NET Platforms**

**.NET Web Application**

