

of this phase will be a model of the Ruby software system. As the meta-model is FAME compliant, also the model will be. Information about the ClassLoader, an instance responsible for loading Java classes, is covered in section 4.7.

The Fame framework automatically extracts a model from an instance of an Eclipse AST. This instance corresponds to the instance of the Ruby plugin AST representing the software system. Automation is possible due to the fact that we defined the higher level mapping. Figure 2.1 reveals the need for the higher mapping to be restored. In order to implement the next phase independently from the environment used in this phase we extracted the model into an MSE file.

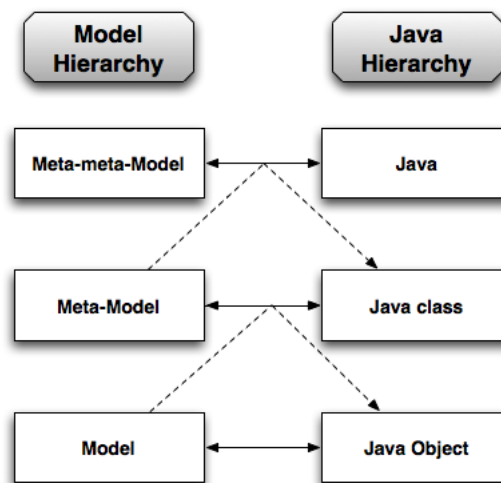


Figure 2.1: The dotted lines correspond to the extraction of a (meta-)model. The other arrows between the model and the software system hierarchy show which Java tower level corresponds to which meta-model tower element.

## 2.3 Model Mapping by Example phase

Our previously extracted model still contains platform dependent information and thus is not a domain specific model for reverse engineering. It could be used by very specific or very generic reverse engineering tools, as it contains the concrete syntax tree of the software system only. However such tools do not exist. In the Model Mapping by Example phase we want to transform the model into a FAMIX compliant one. With such a format it will be easier to use in several software engineering tools.

The idea behind this approach relies on Parsing by Example [3]. Parsing by Example presents a semi-automatic way of mapping source code to domain