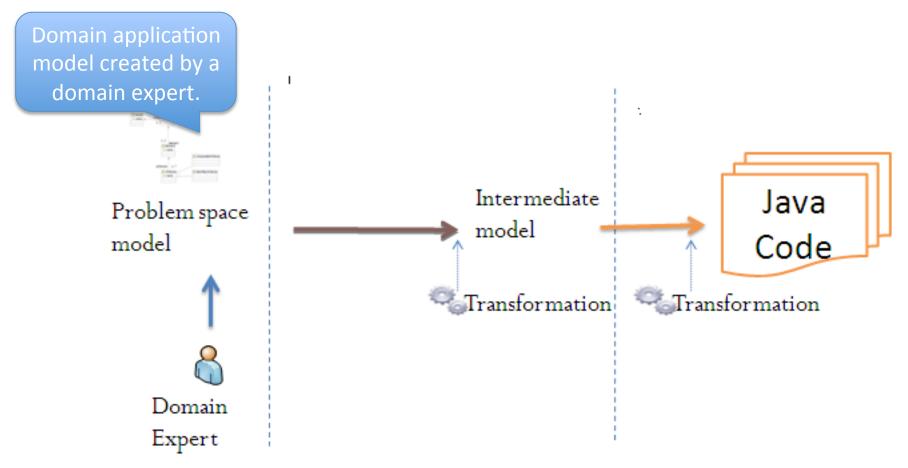




Case Study: Collection Manager

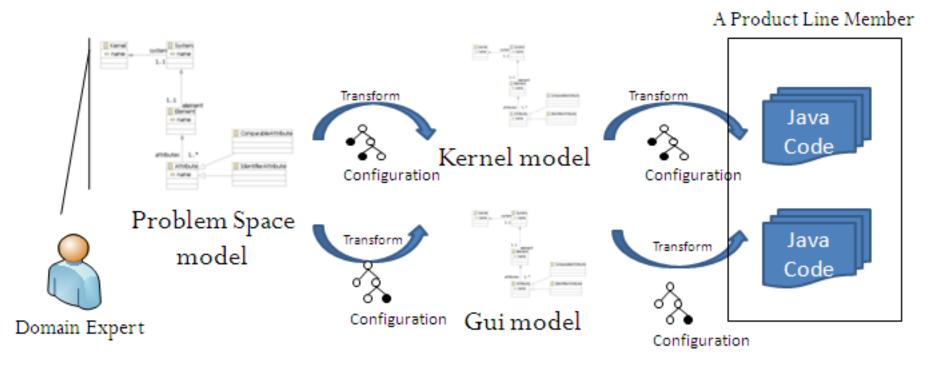
Derivation Process Explanation

Multi-staged configuration of products



MDE develops products departing from domain application models which conform to domain application metamodels, and that are derived using a set of model transformations. These model transformations may require various stages. At each stage, domain application models are automatically transformed to include more details.

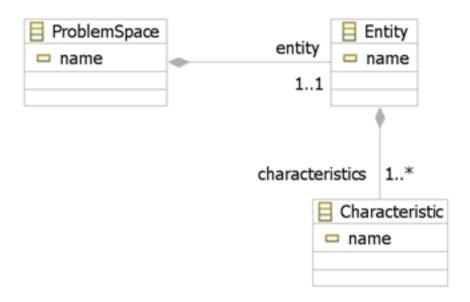
Derivation process



- To configure a product, a Domain Expert creates a Problem Space Model.
- In this case study, the problem space model is transformed into a kernel model and a GUI model accordingly.
- Finally, the kernel and GUI models are transformed to source code.

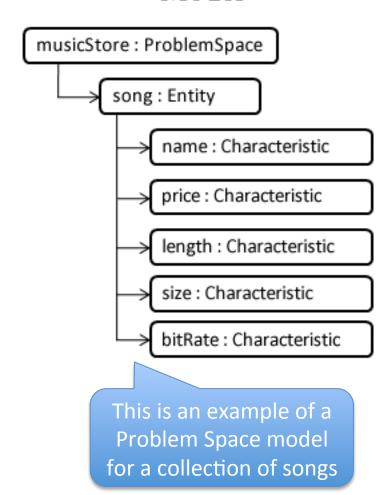
Problem space creation

Problem Space Metamodel

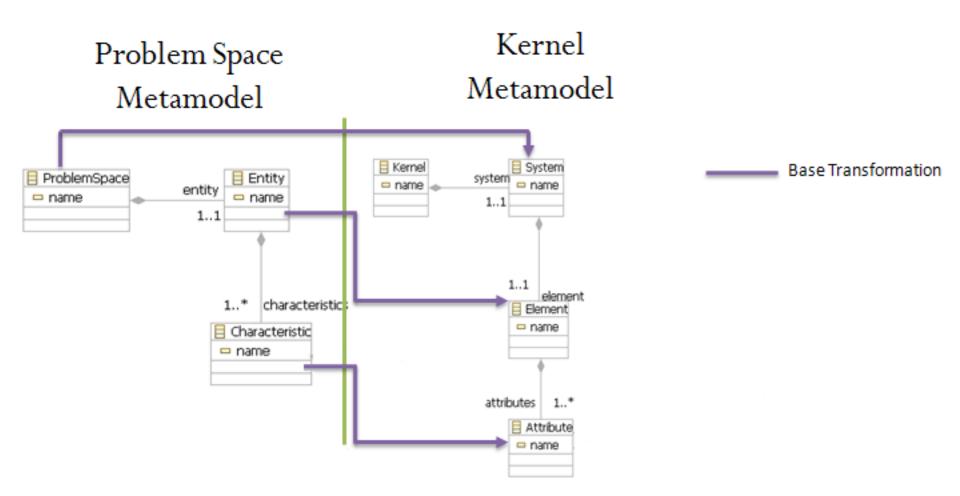


- Problem Space models represent collections.
- Entity: It is the element to be managed.
- Characteristic: It is a property of the Entity.

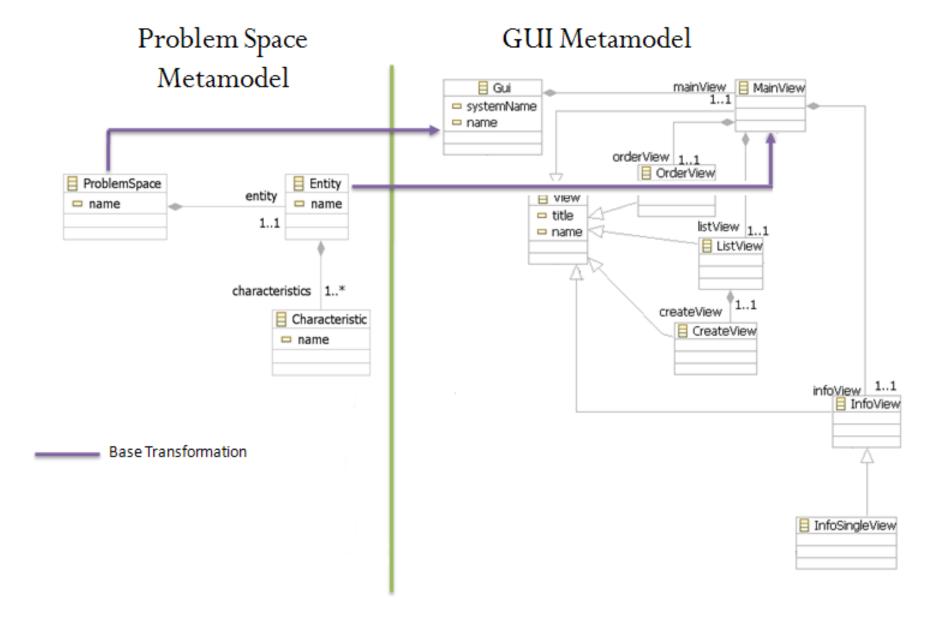
Problem Space Model



Derivation process: Problem space to kernel



Derivation process: Problem space to GUI



Workflow

A model transformation consists of a set of transformation rules; each transformation rule is responsible for producing a part of the final product. To derive a complete product, we assembly the transformation rules in a workflow which determines the order in which the individual parts are produced and assembled.

