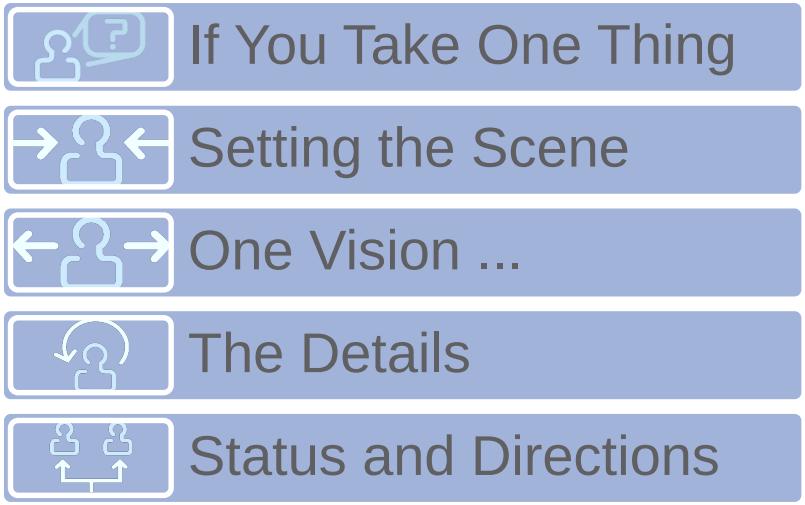
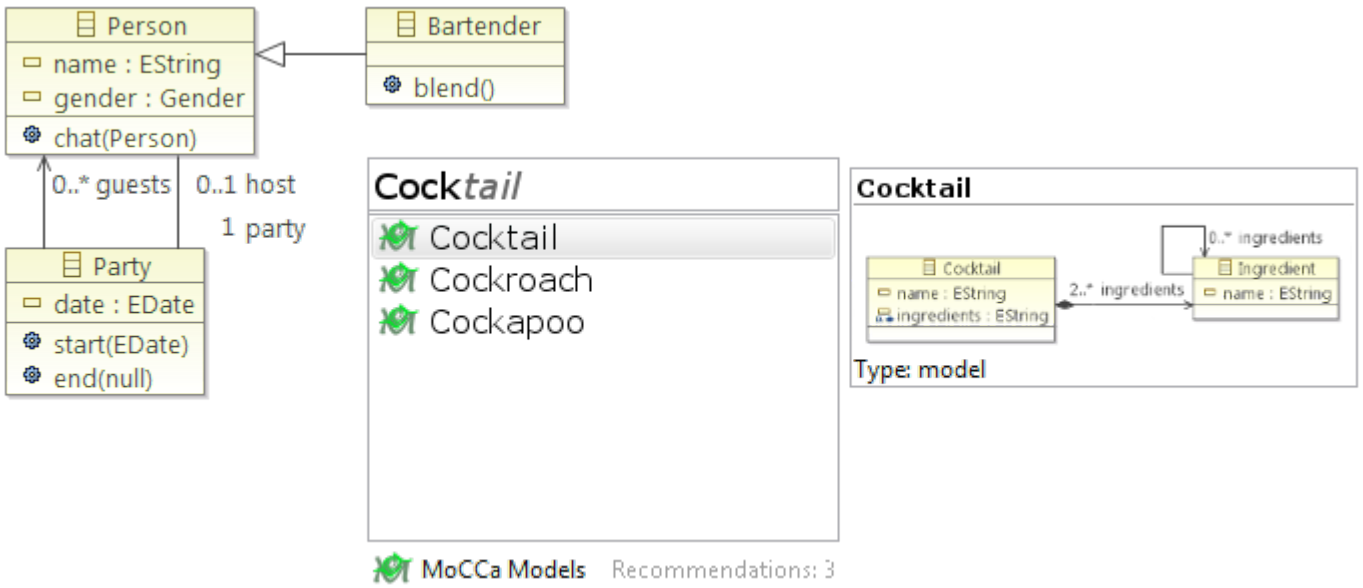
Model Recommenders for Command-Enabled Editors

Andrej Dyck, Andreas Ganser, and Horst Lichter



If You Take One Thing ...

Model recommenders are fancy ;-)

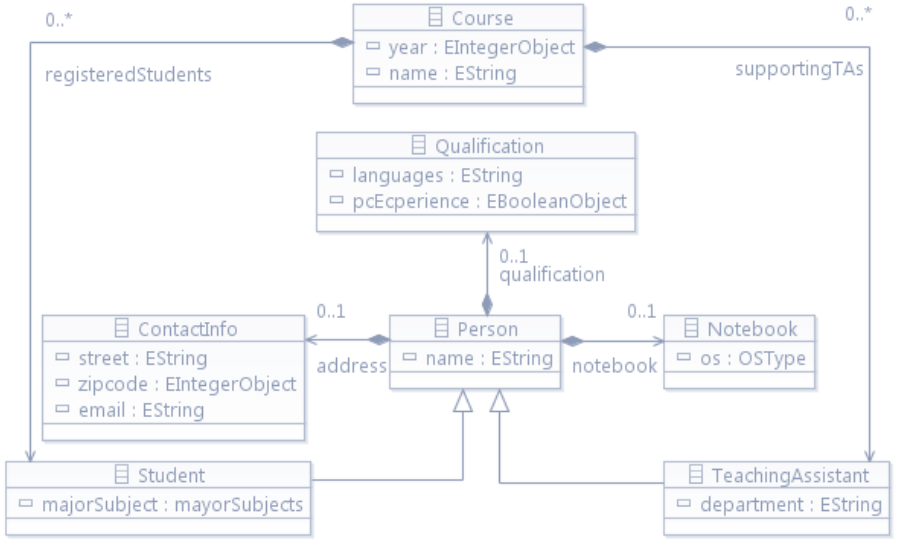


Why should I care …?

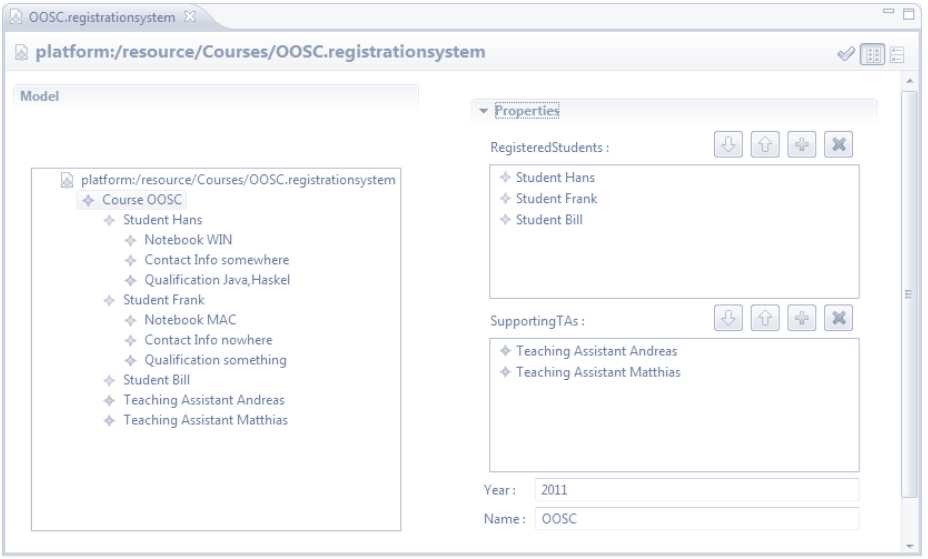
Setting the Scene

A lecture registration system (EMF/EEF)

Domain Model



Generated Editor (EEF)



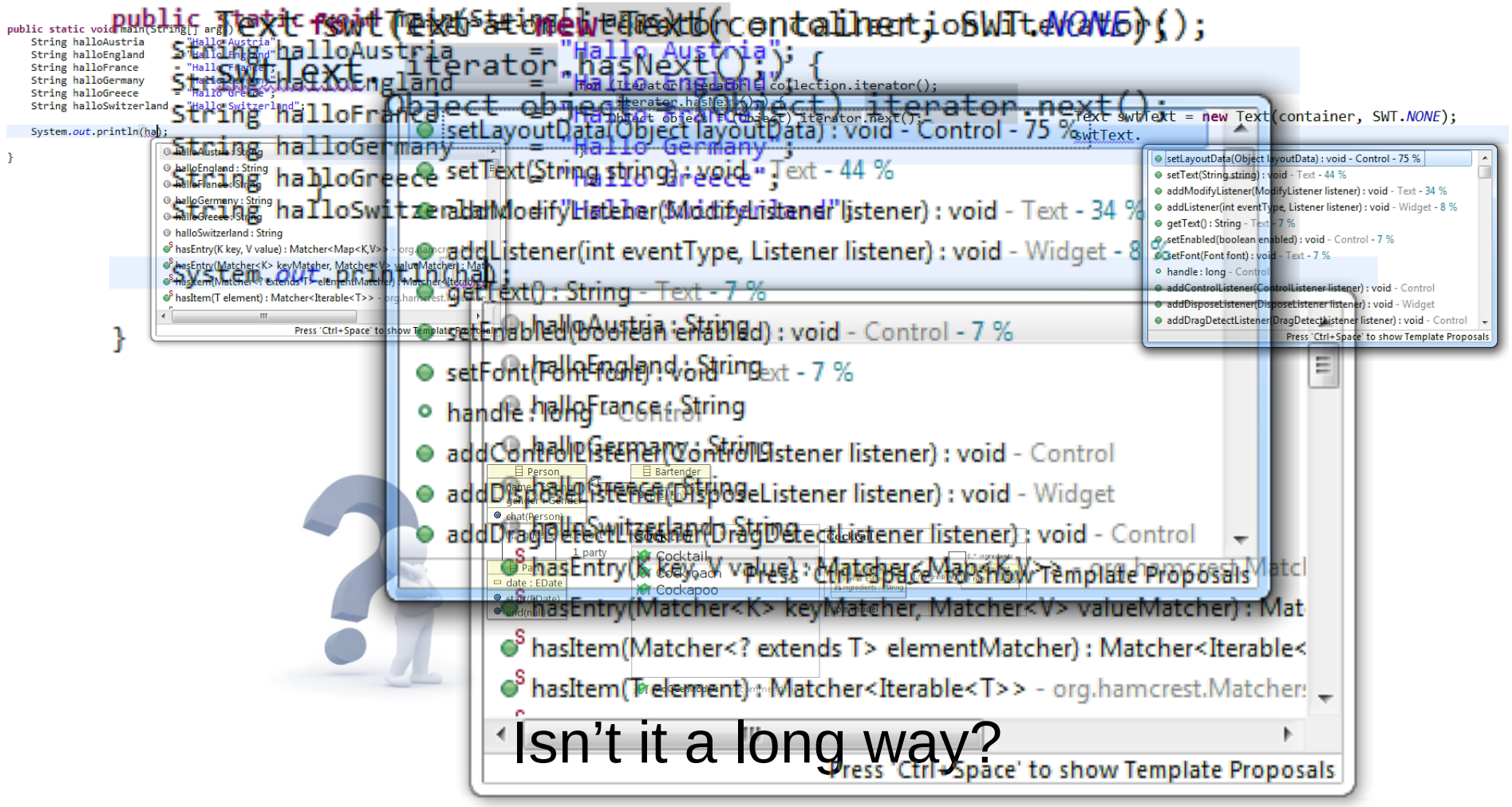
How could we aid this …?

One Vision ...

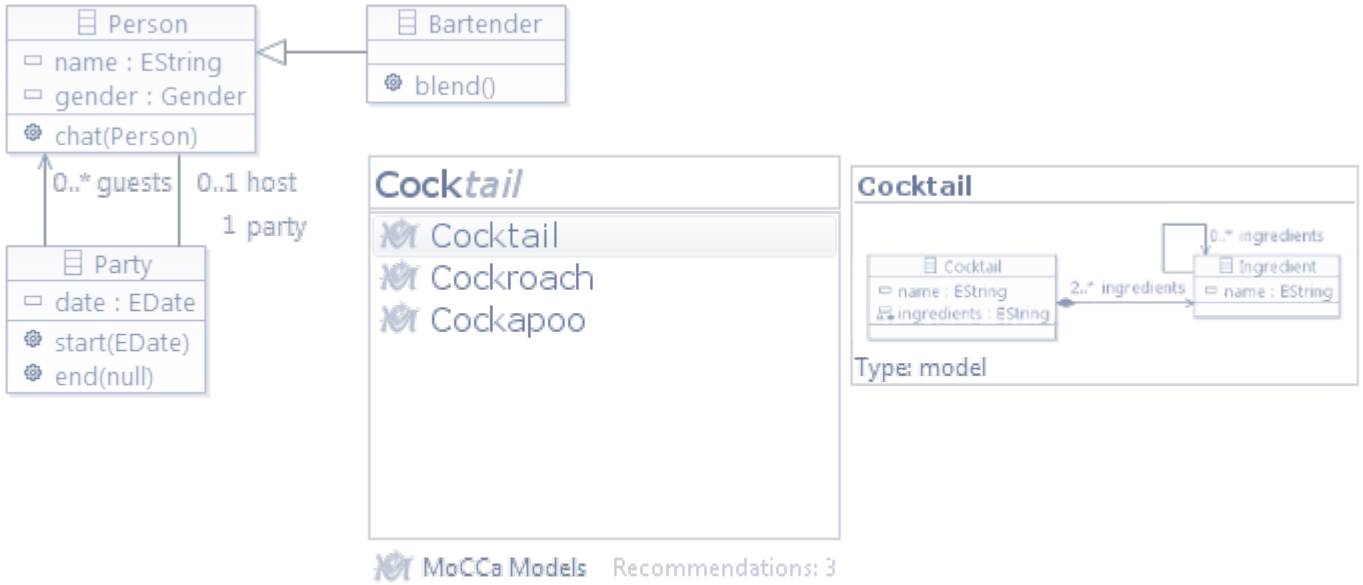
From content assist to recommender systems

Content Assist

Recommendation

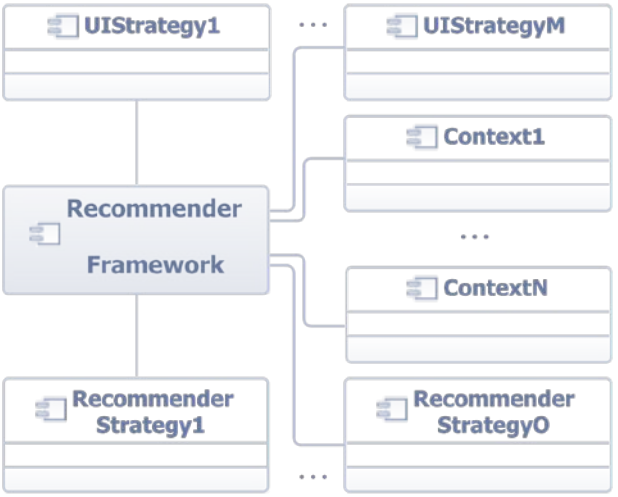


Conceptual: Recommending Models



Producing Recommendations

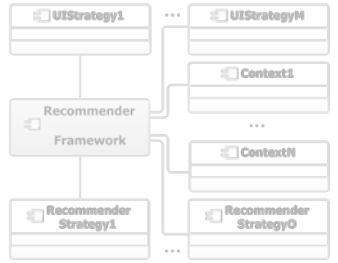
a) Read query
b) Analyze context
c) Query / evaluate data sources
d) Rank query results
e) Produce recommendations



- Focus: Framework

How about an example …?

Recommender Framework

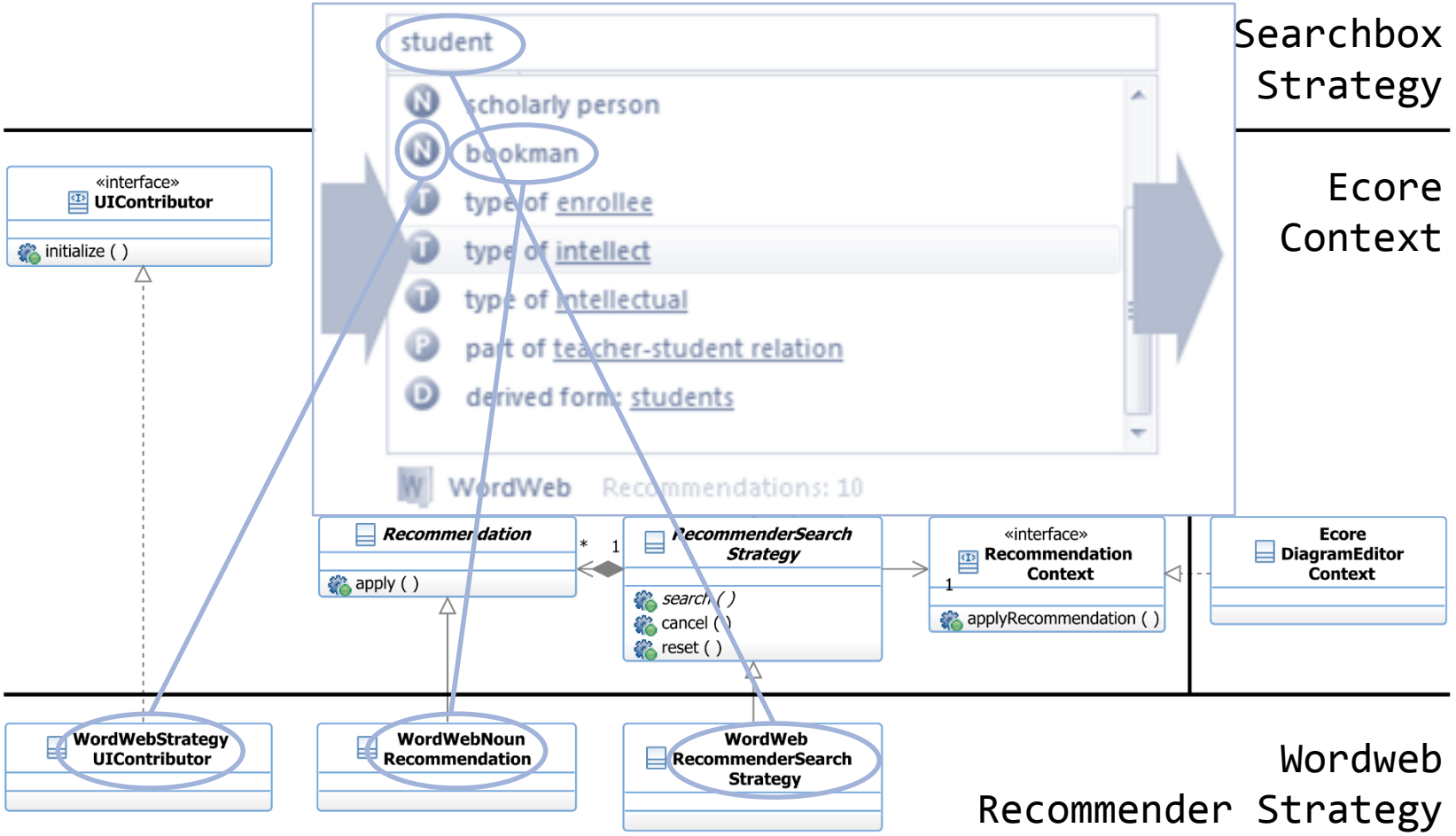


An example

Is it always that simple …?

Recommender Framework

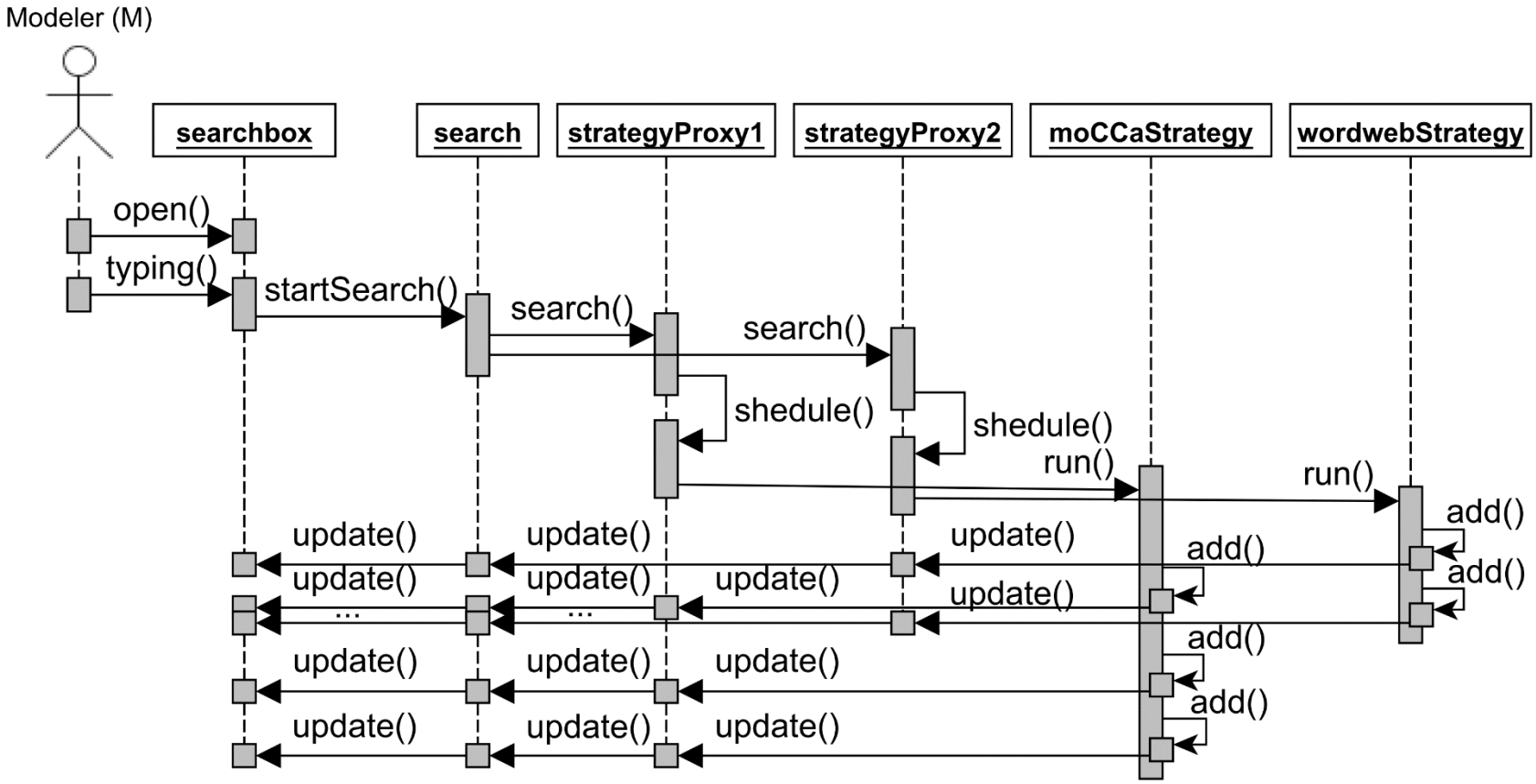
Some more “static” details, if you like …



How do the objects flow …?

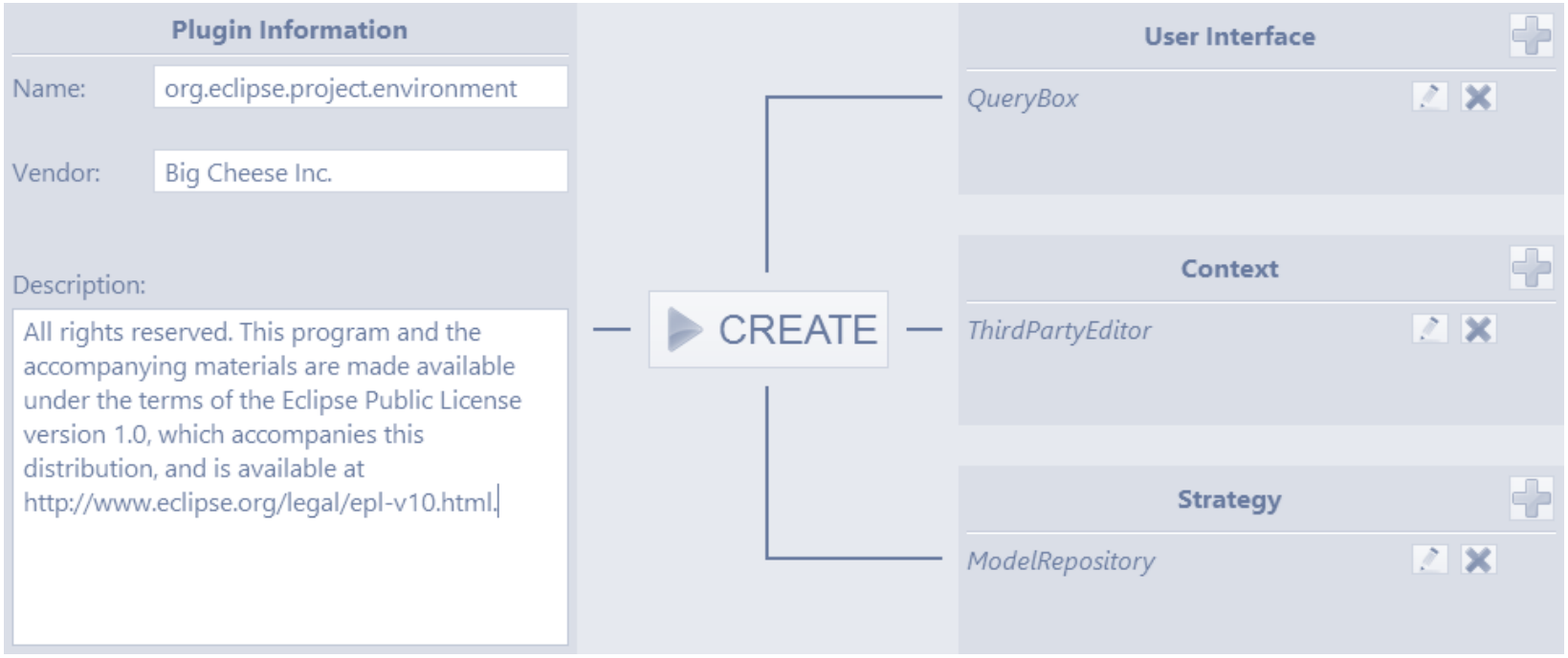
Recommender Framework

Some more “dynamic” details, if you like …

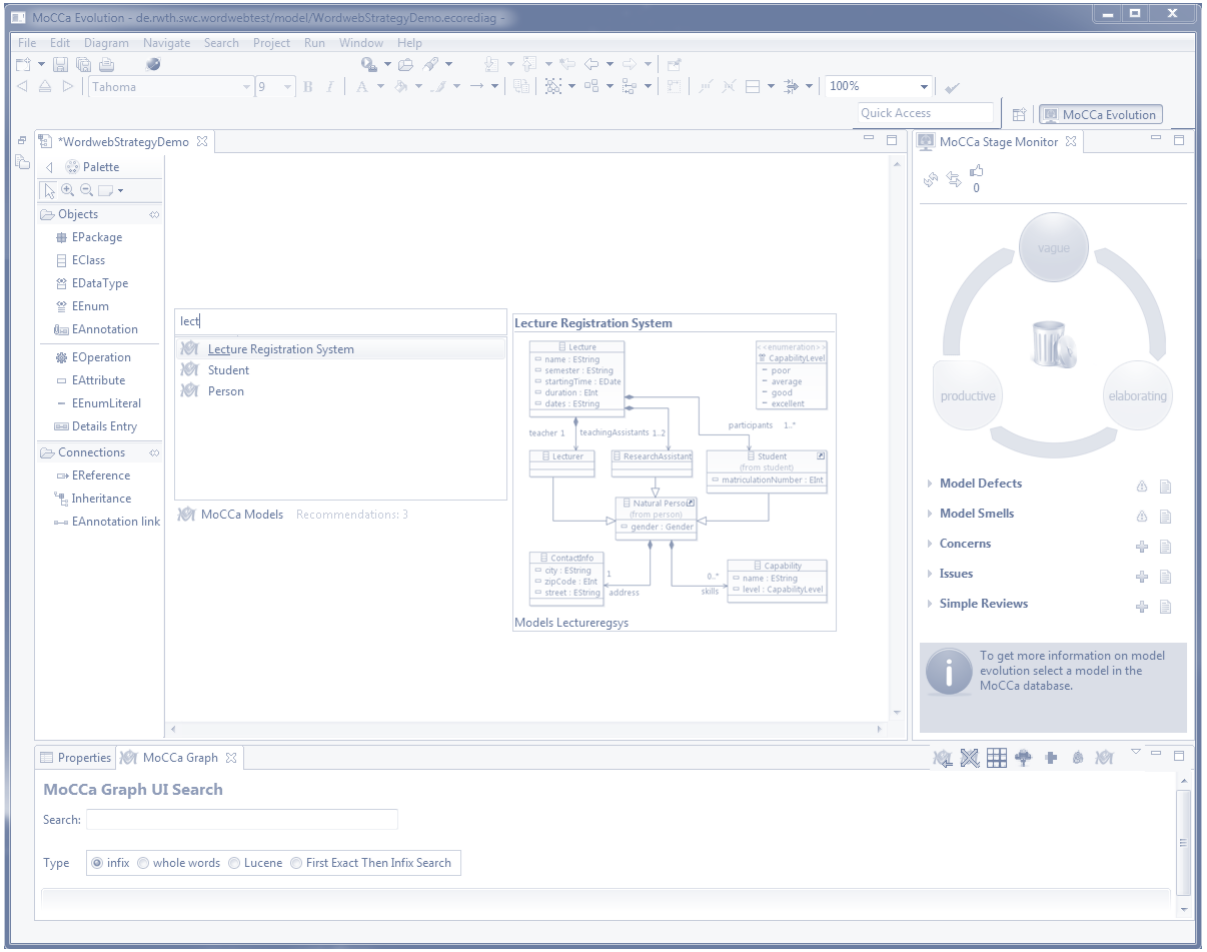


Recommender Framework

A dashboard to ease the pain …



… a Software Prototype



Is that all …?

Some References

What else is going on ...?

The HERMES Project

References

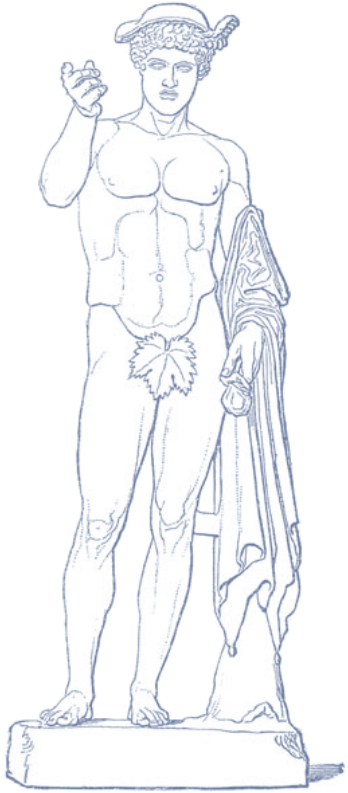
A. Ganser, H. Lichter, Engineering Model Recommender Foundations – From Class Completion to Model Recommendations, (Modelsward 2013, Spain)

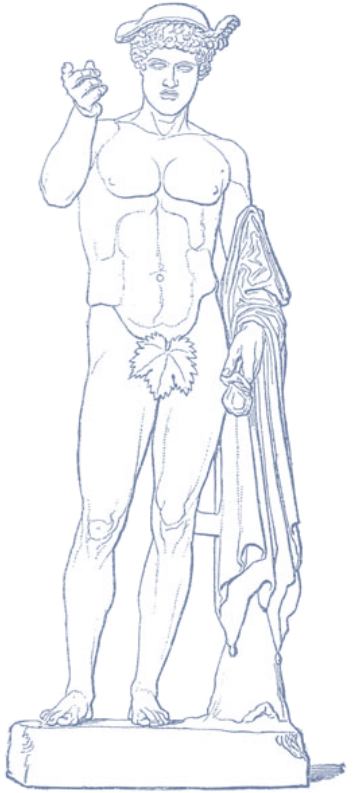
A. Ganser, T. N. Viet, H. Lichter, Multi Back-Ends for a Model Library Abstraction Layer, (ICCSA 2013, Vietnam)

A. Dyck, A. Ganser, H. Lichter, Model Recommenders for Command-Enabled Editors, (MoDELS MDEBE 2013, US)

and more to come on

Model Recommender UI Survey,
Framework Internals, Contexts / Scanners





Thanks for your attention

… any questions?

Technologies and Frameworks