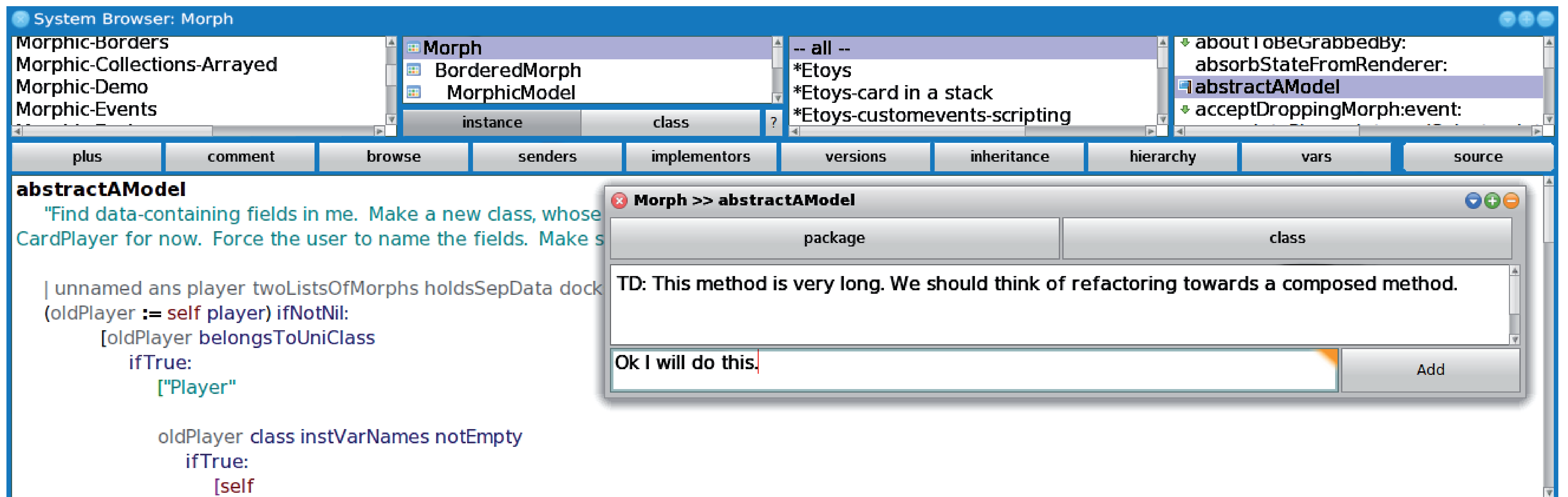


Continuous Code Reviews

A Social Coding tool for Code Reviews inside the IDE



Problem

Contemporary code reviews are done only once before a pull request is merged

- ▶ **No continuous feedback on code quality**
Legacy code is not reviewed
- ▶ **No support for questions of new developers concerning existing code**
New eyes see new problems
- ▶ **Forces the developers to leave their IDE for commenting on code**
Increases context switches

Solution

Development of a tool for continuously adding comments in the IDE

- ▶ **State-based instead of change-based**
Comments refer to current state of code
- ▶ **Pull model for reviews**
Developers comment on any code without the request of the author
- ▶ **Client-Server-Architecture**
Exchange comments using a separate server that is orthogonal to the version control

Discussion

- ▶ Enable adding comments to external libraries or frameworks
Give **feedback to developers of third party software**
- ▶ Source code comments will move out of the code base into the social coding comment database
Keeps the code **clean and focused**.
- ▶ Correctness **only if all working developers have installed the tool**
Moving a method with attached comment leads to inconsistent state