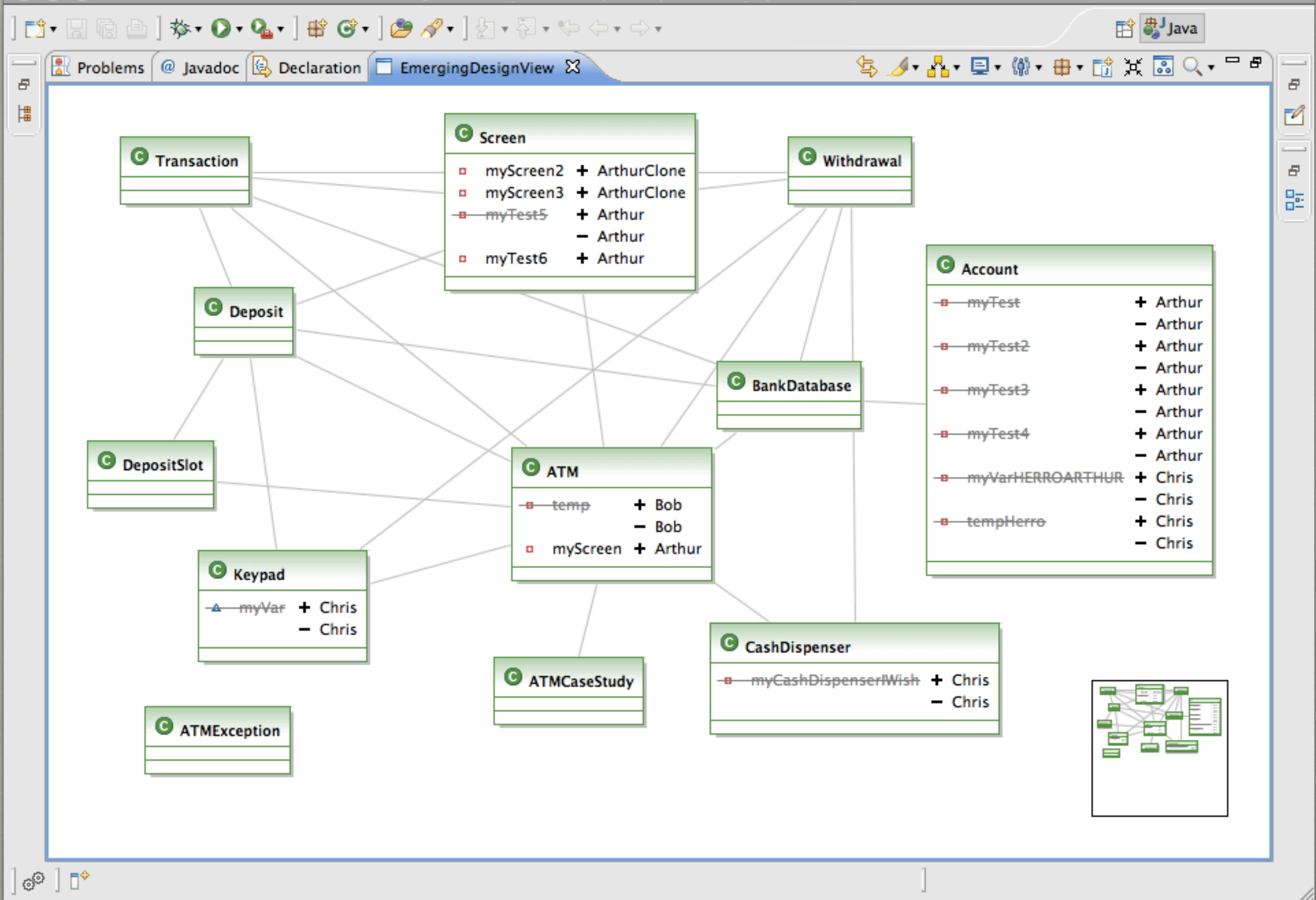


LIGHTHOUSE

EVALUATION PLAN

WHAT LIGHTHOUSE IS

- Collaboration tool for Eclipse projects
- Aims to address issues with:
 - Understanding how one's ongoing work influences that of others and vice versa
 - Preventing unintended, undiscovered, and unauthorized design changes
 - Knowing which parts of the code are stable, incomplete, or in flux



USABILITY PROBLEMS

- Icon ambiguity
- Difficulty of initial setup
- Issues with listeners
- Requires specific IDE
- Lack of helpful tooltips
- Further testing needed in usability study

HEURISTIC EVALUATION

HEURISTIC EVALUATION

- Three members of our group will perform a heuristic evaluation using the software to add a feature to a project.
- One member will observe and take notes of frustrations, rough edges, bugs encountered.
- Intended to highlight other issues we've missed that might come up in user evaluations before performing user evaluations prior to pilot testing.

USER EVALUATION

USER EVALUATION CRITERIA

- Experienced software developer
- Familiar with Eclipse
- Familiar with Java
- Have group coding experience, preferably in a collaborative environment
- Familiar with version control

USER EVALUATION

Stage 2A: Testing discoverability of interface

- Small modifications to a simple project
- Interview follows short test

Stage 2B: Testing collaboration

- Testing 5-8 individual users for coordination issues with collaboration
- Arthur and Chris will be collaborators with the subject to introduce conflicts
- Provide chat client for communication

USER EVALUATION METHODS

Stage 1: Learning the interface

- Specific tasks designed for interface exploration
- Think aloud process as user explores
- Interview: First impressions on usability

Stage 2: Collaborative development

- Screen and audio recording
- Think aloud (if possible)
- Final interview: impressions, usability issues, interest in future use

TIMELINE

10/19 - Presentation of intended user study goals, problems, methods.

10/22 - Complete heuristic evaluation

10/23 - Be ready for user tests, begin inviting users for pilot test

10/30 - Begin user evaluations and interviews

11/23 - Finish all experiments, present pre-final presentation.

QUESTIONS?