

Subjectopia

Daniel Langone

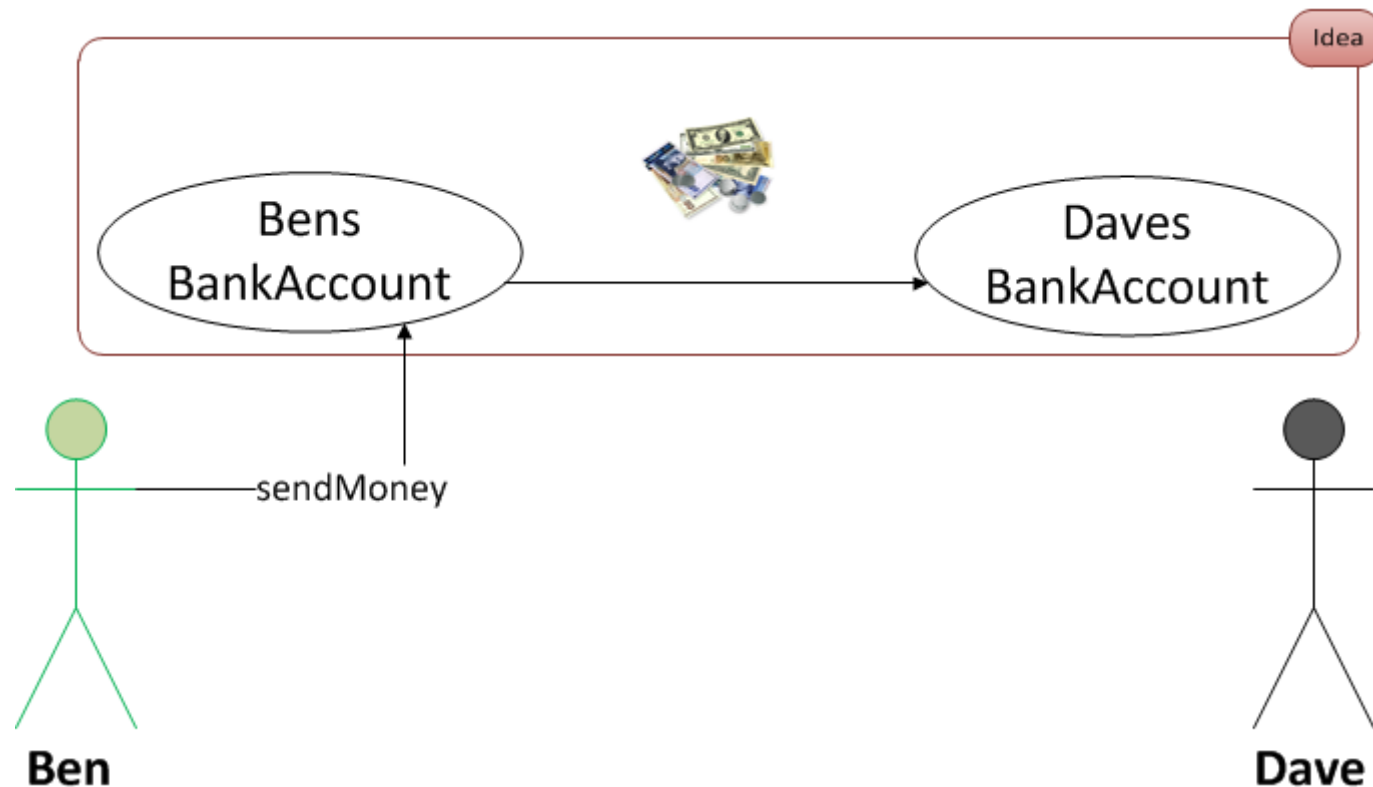
Final MA Thesis Presentation

University of Bern

01.02.2011

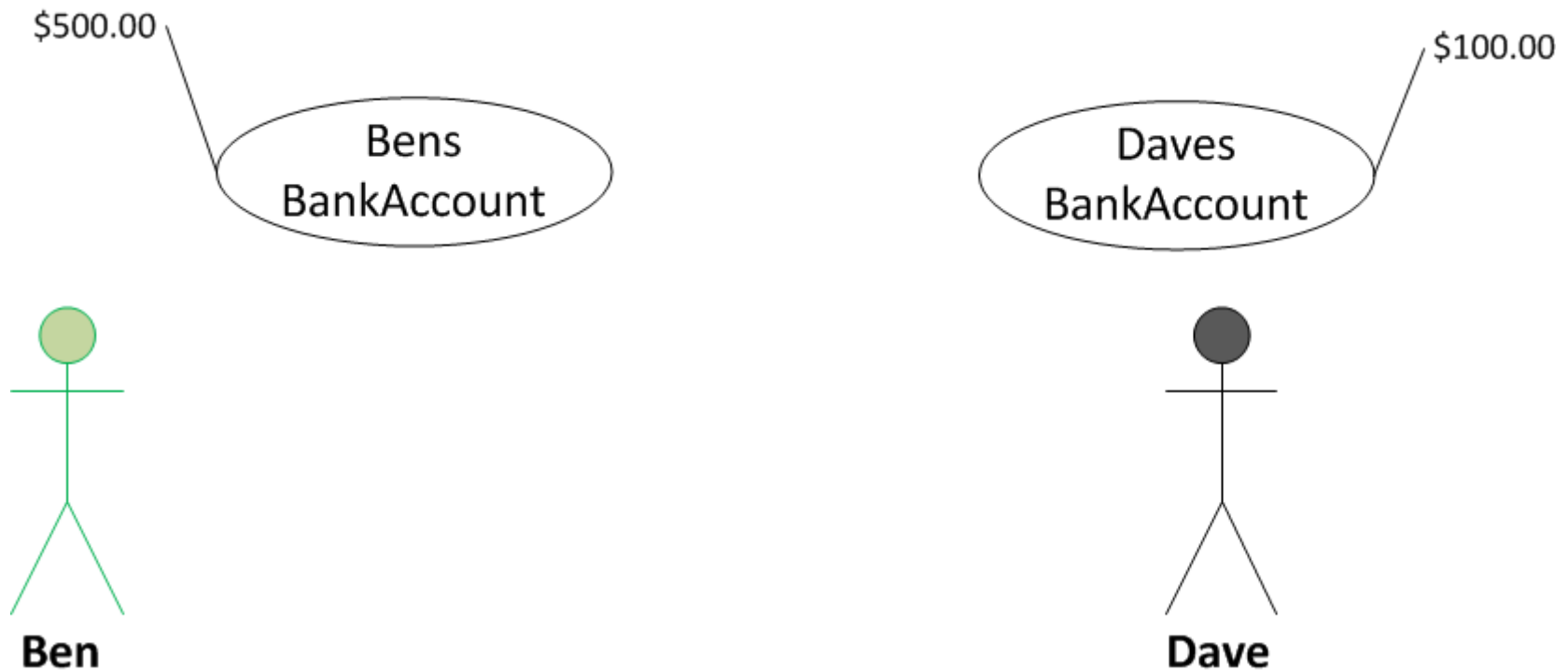
Problem

Use Case – Bank Account

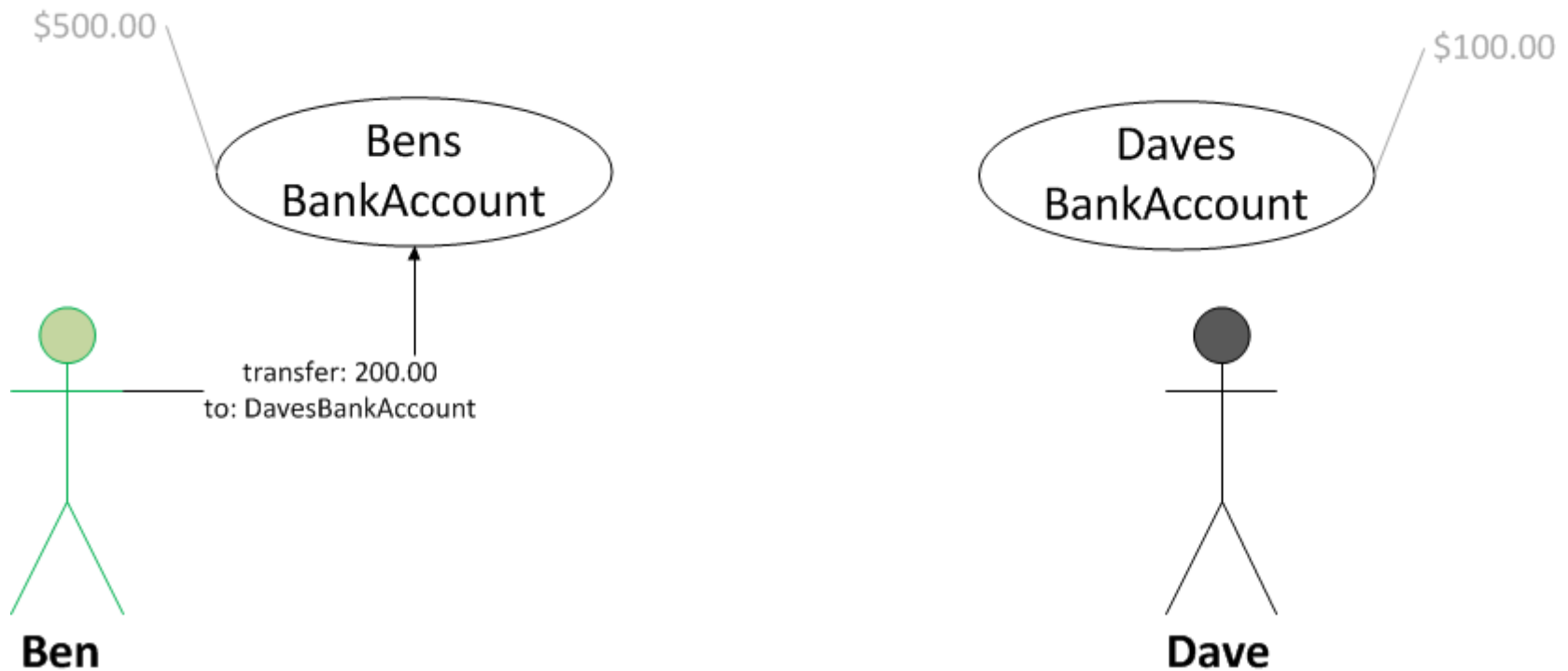


Use Case: Bank Account

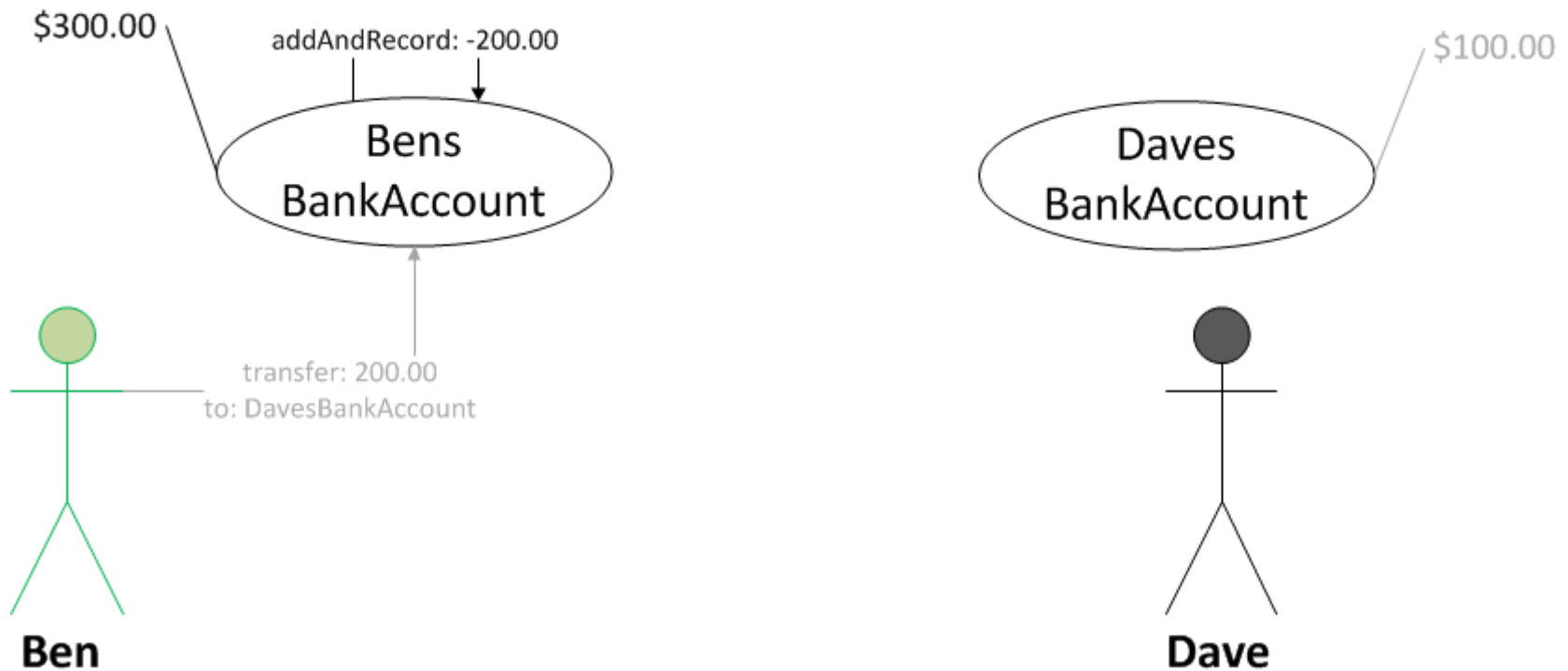
Use Case – Bank Account



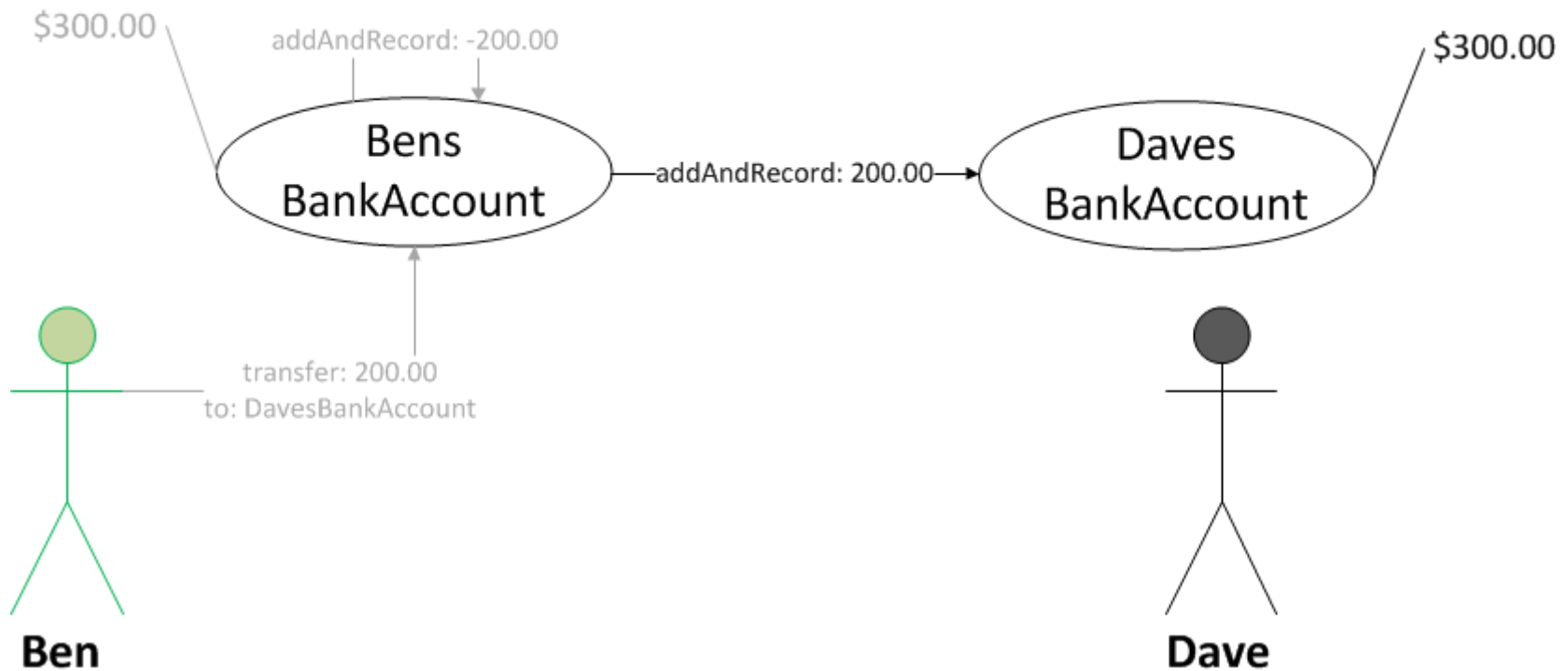
Use Case – Bank Account



Use Case – Bank Account

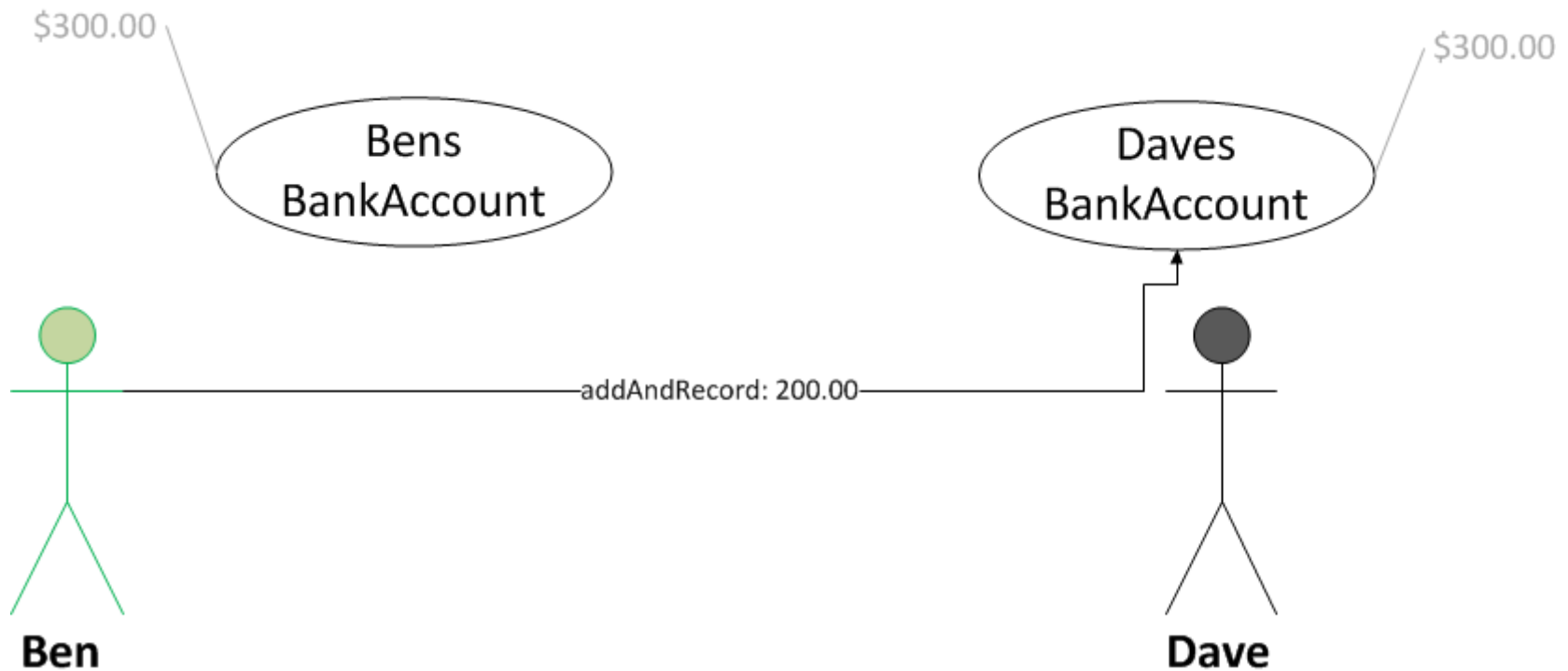


Use Case – Bank Account



Problem: Subjective Behavior of Bank Account

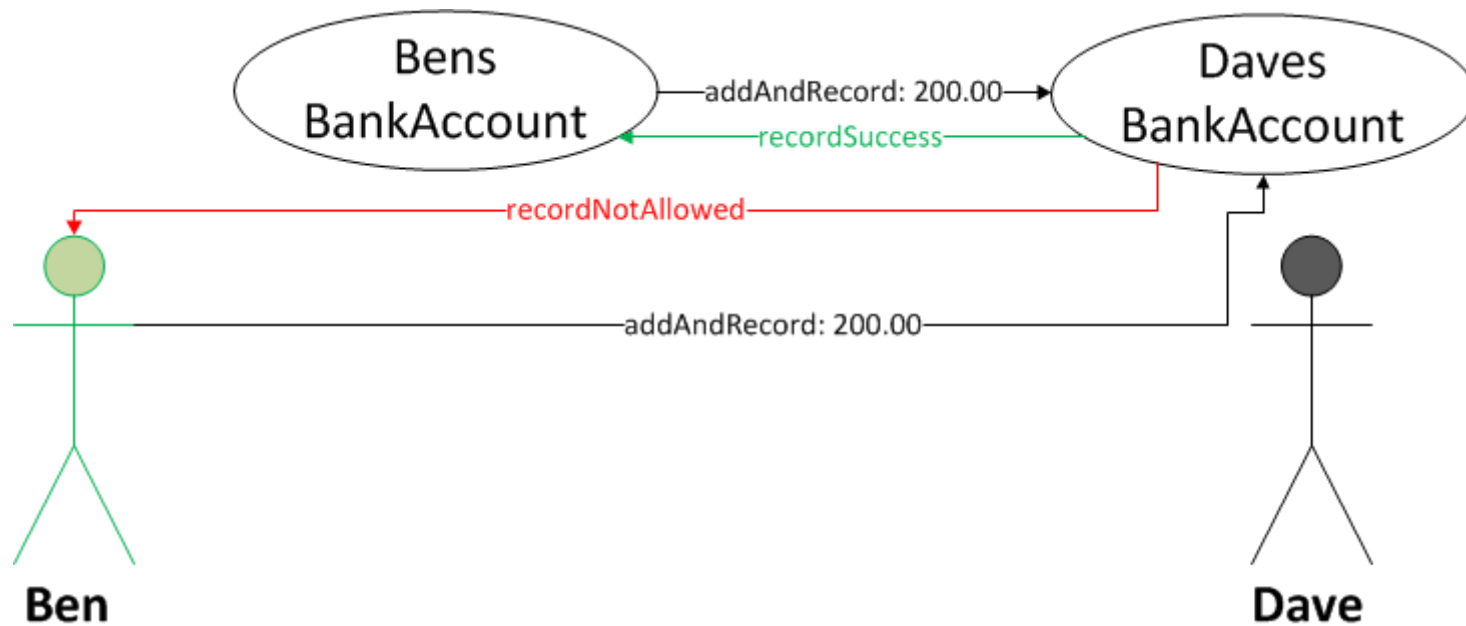
Problem – Subjective Bank Account



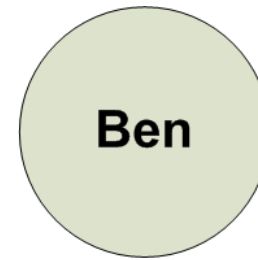
Problem – Subjective Bank Account

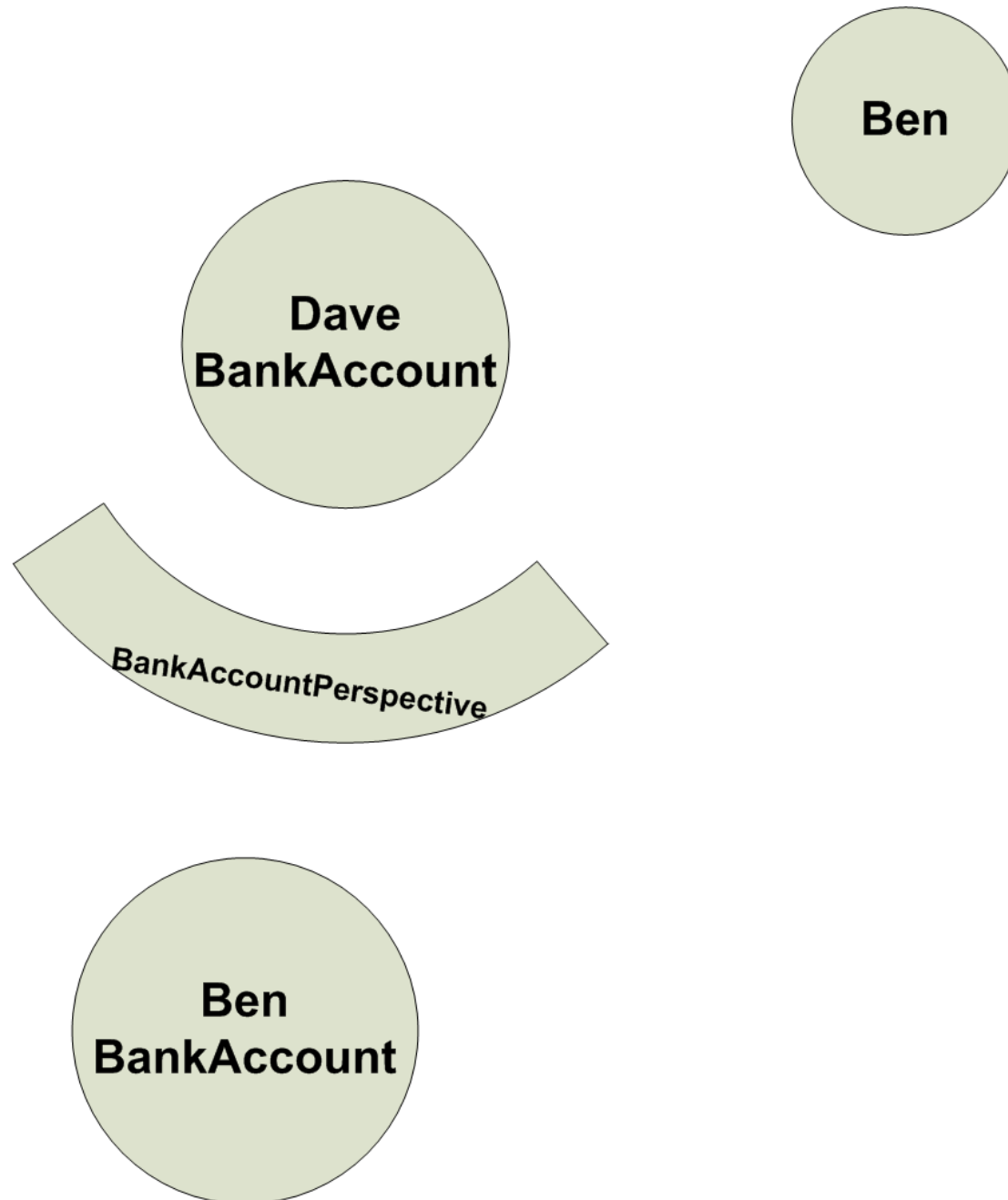


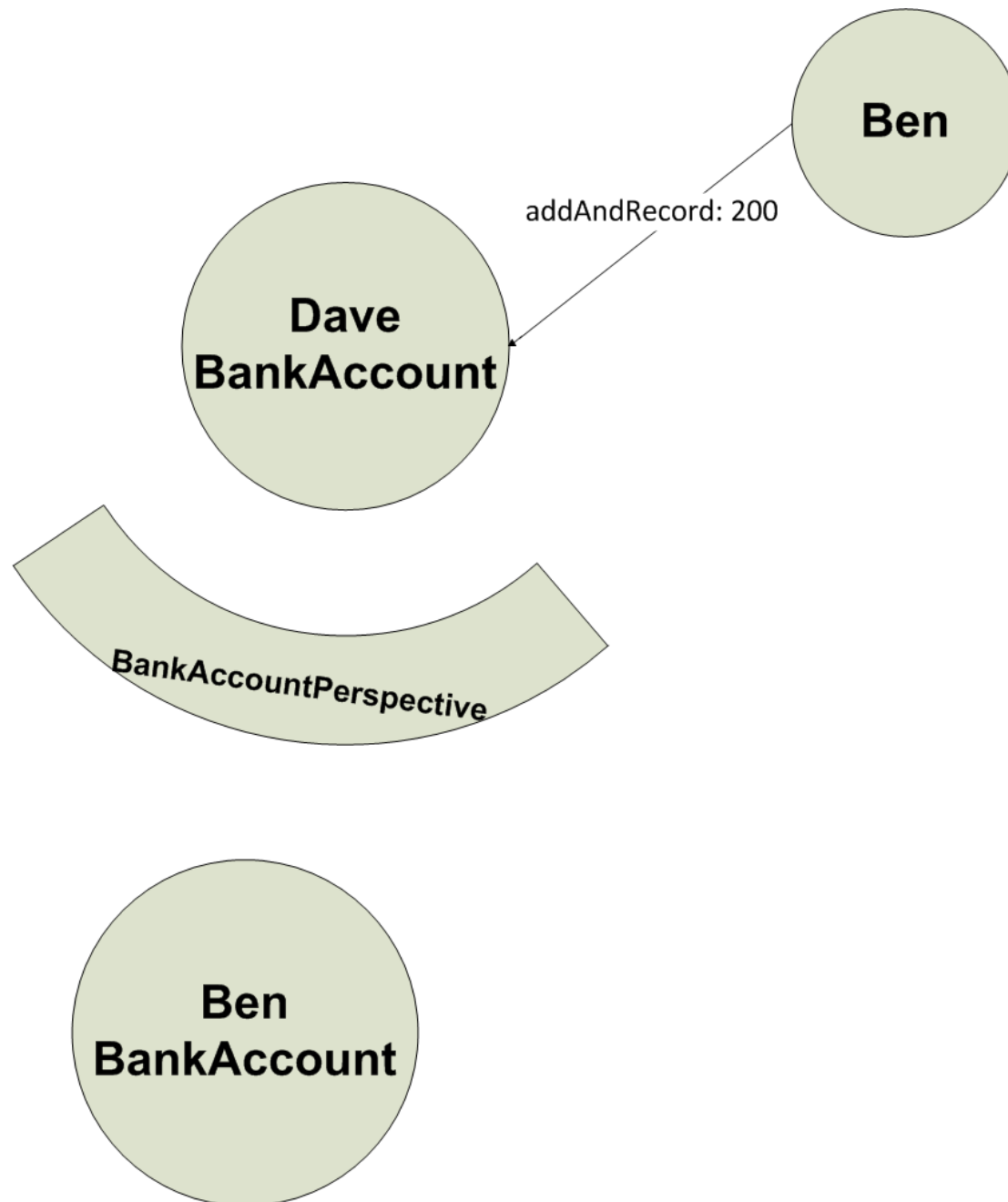
Problem – Subjective Bank Account

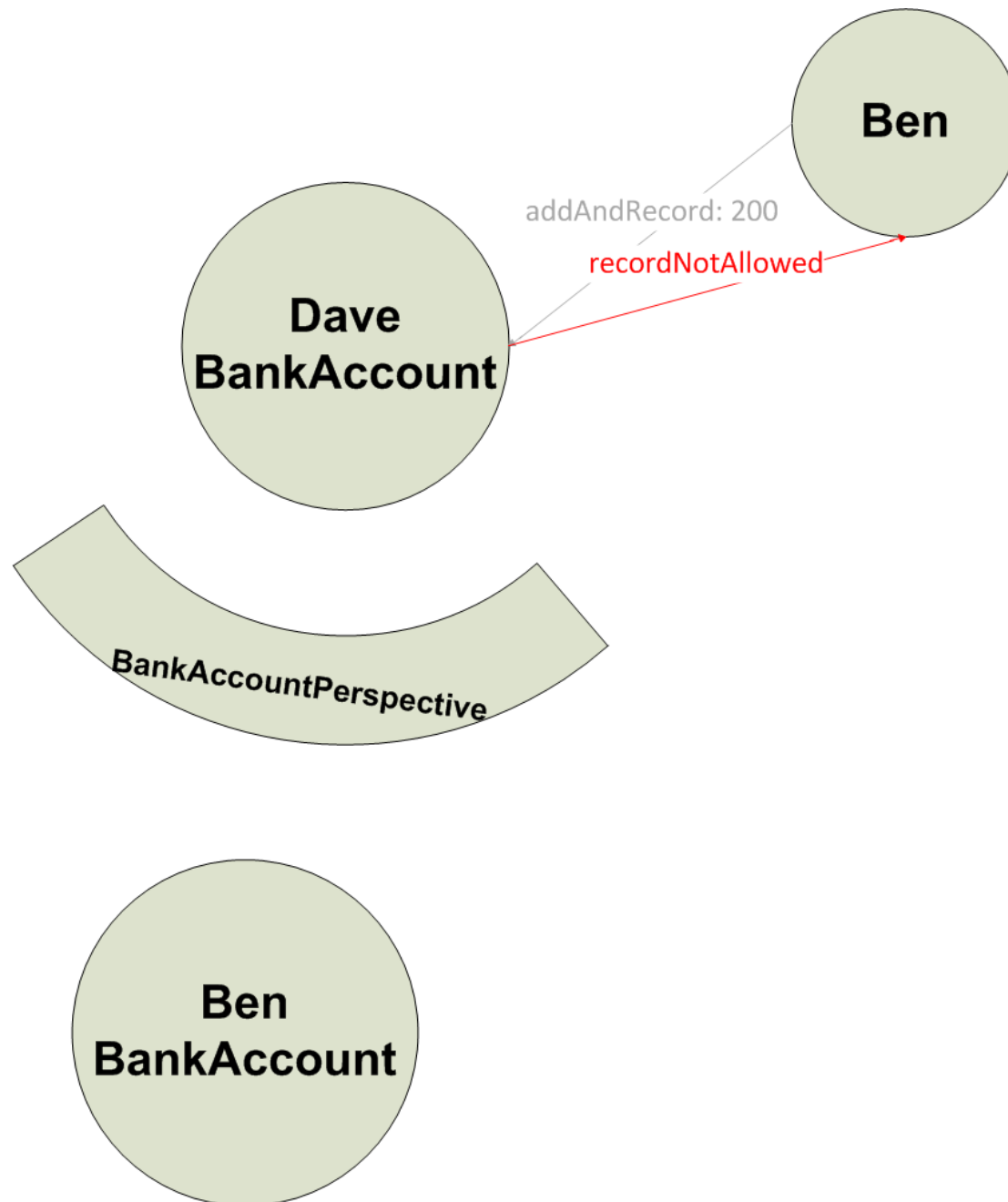


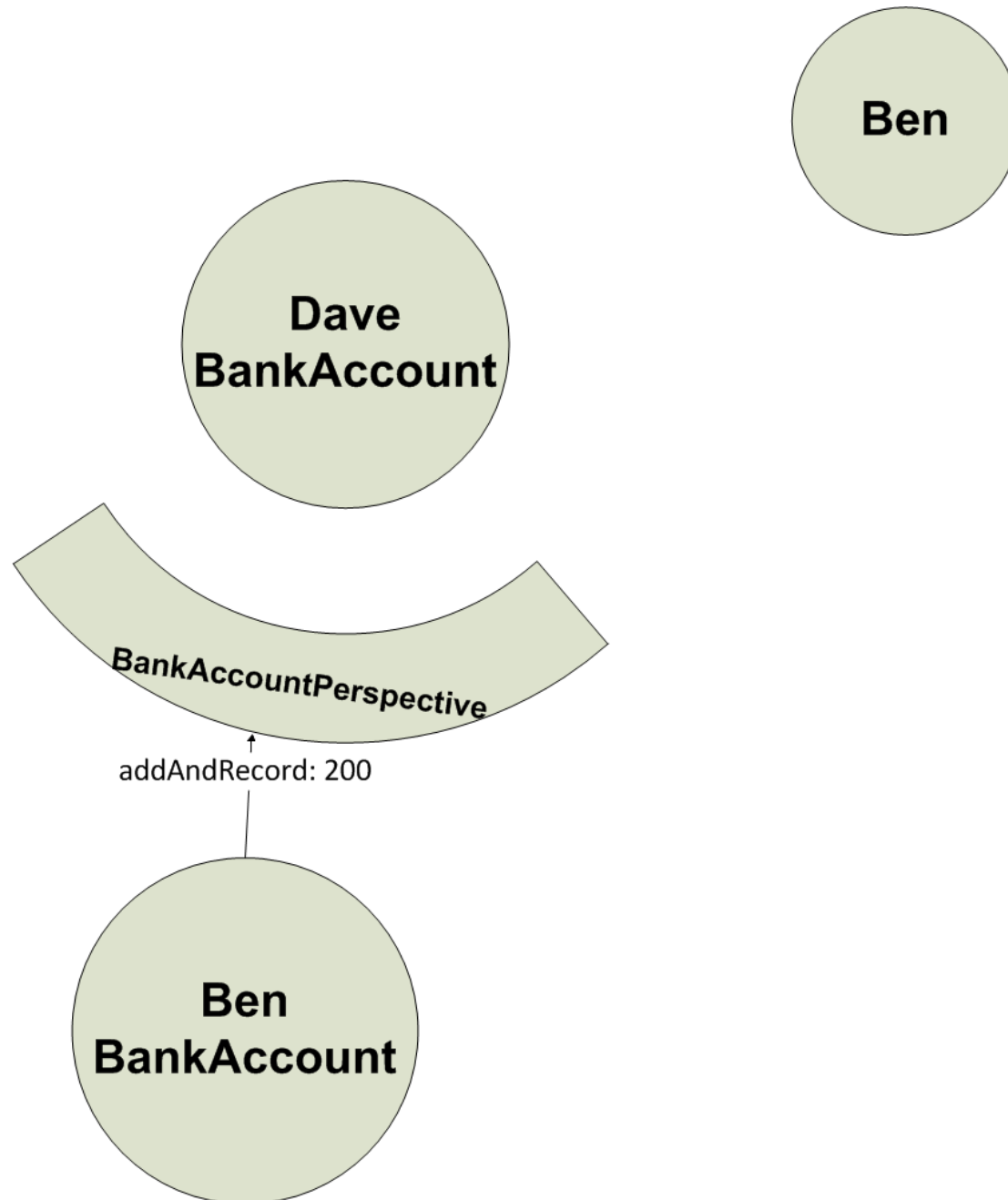
Perspective

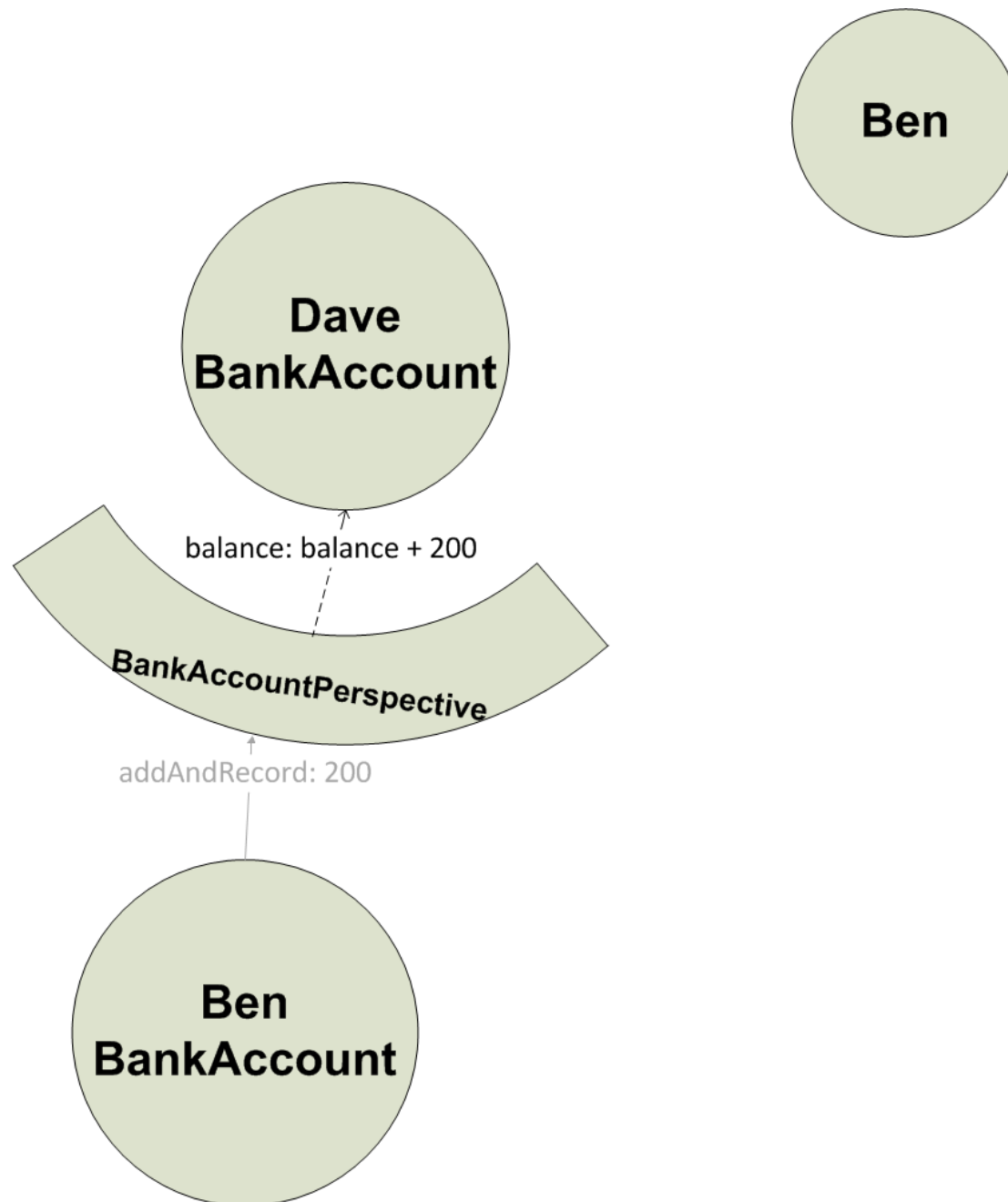


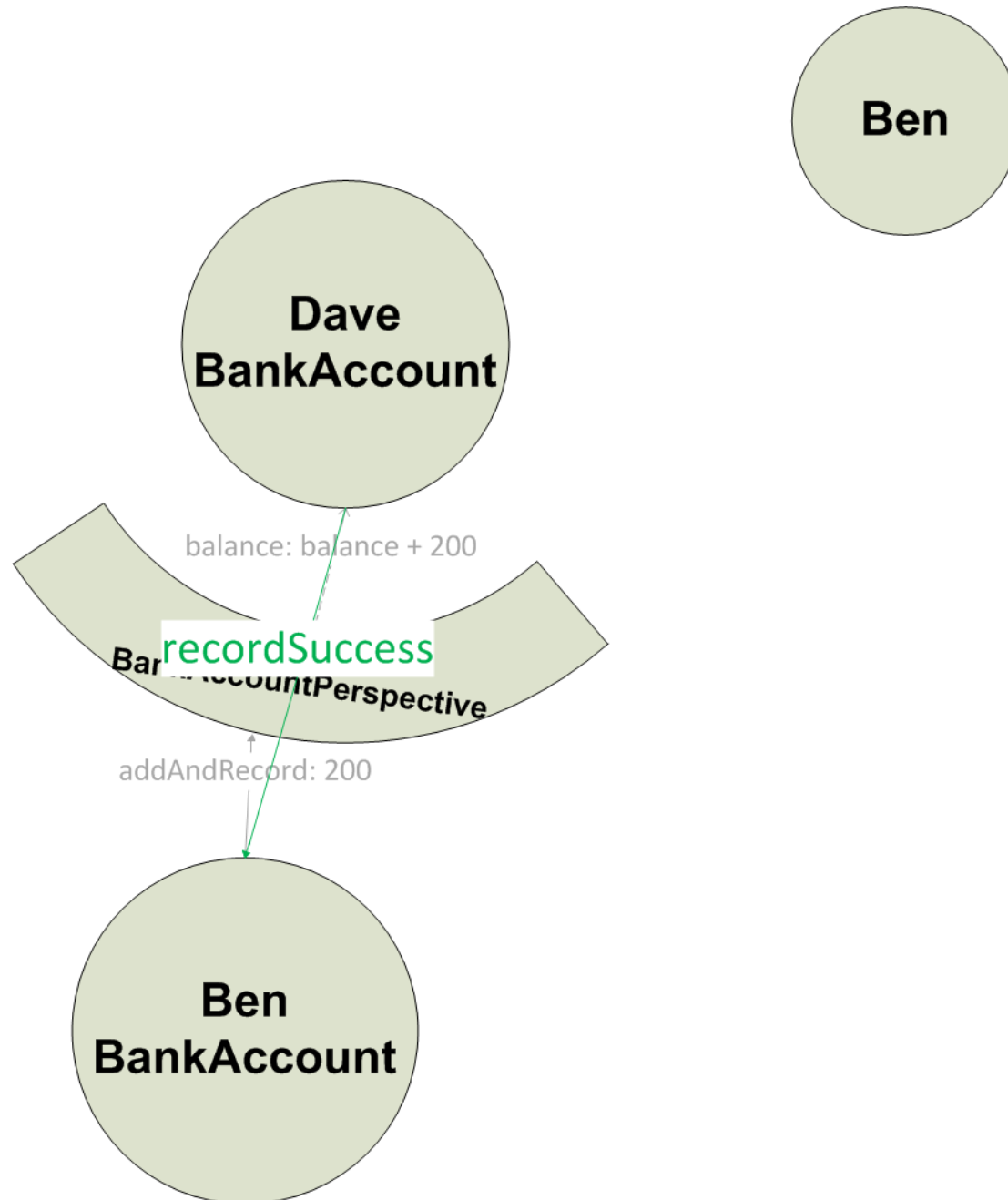












Roles

Legend

- Role
- Int. Object

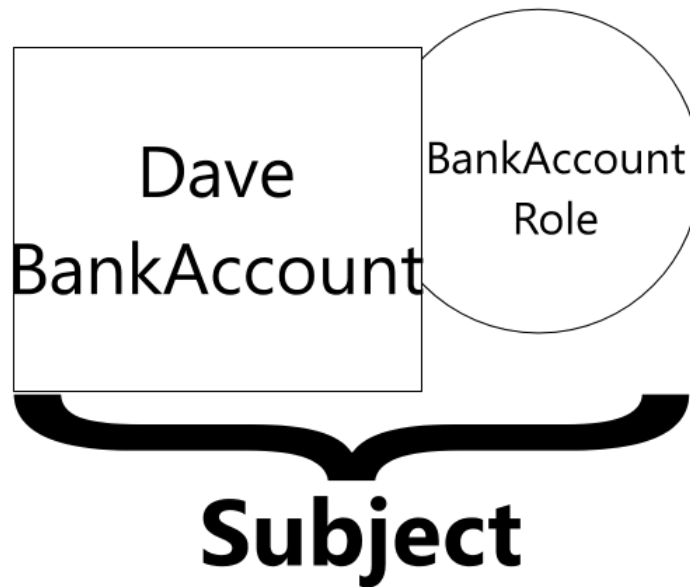
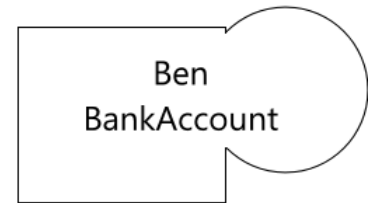
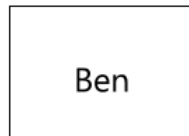
Ben

Ben
BankAccount

Dave
BankAccount

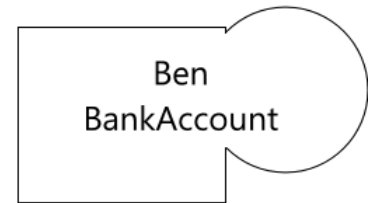
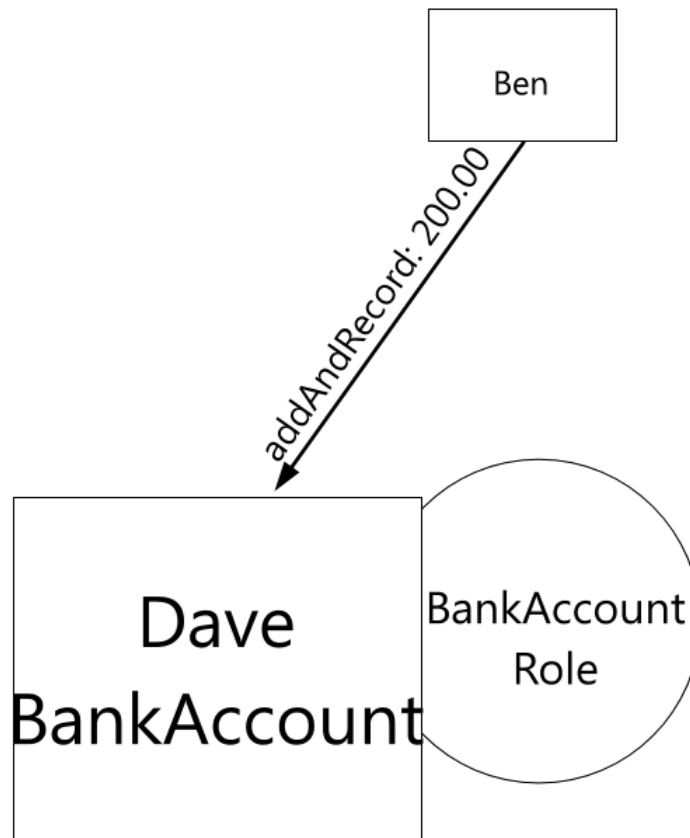
Legend

- Role
- Int. Object



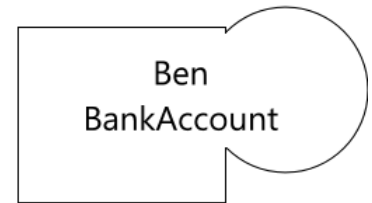
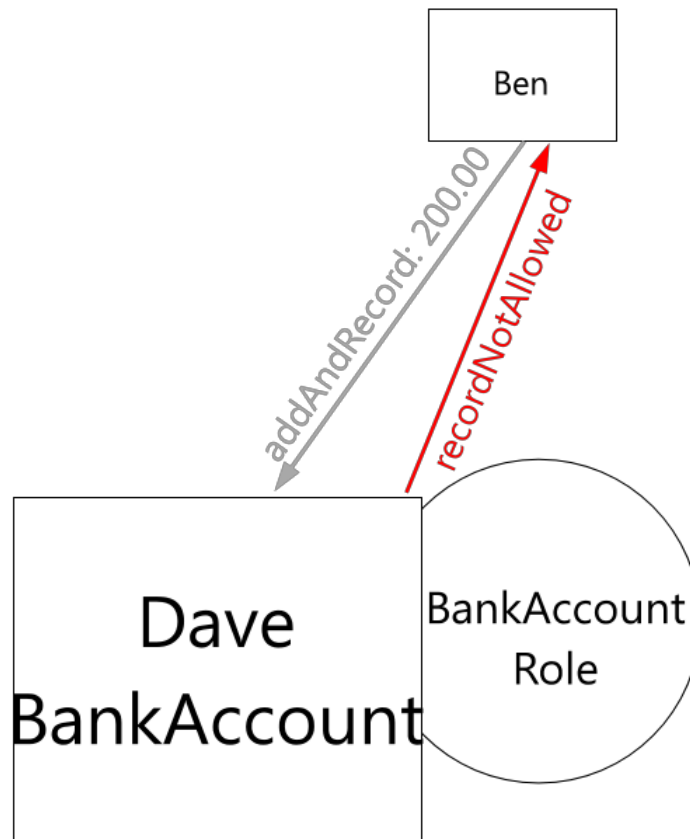
Legend

- Role
- Int. Object



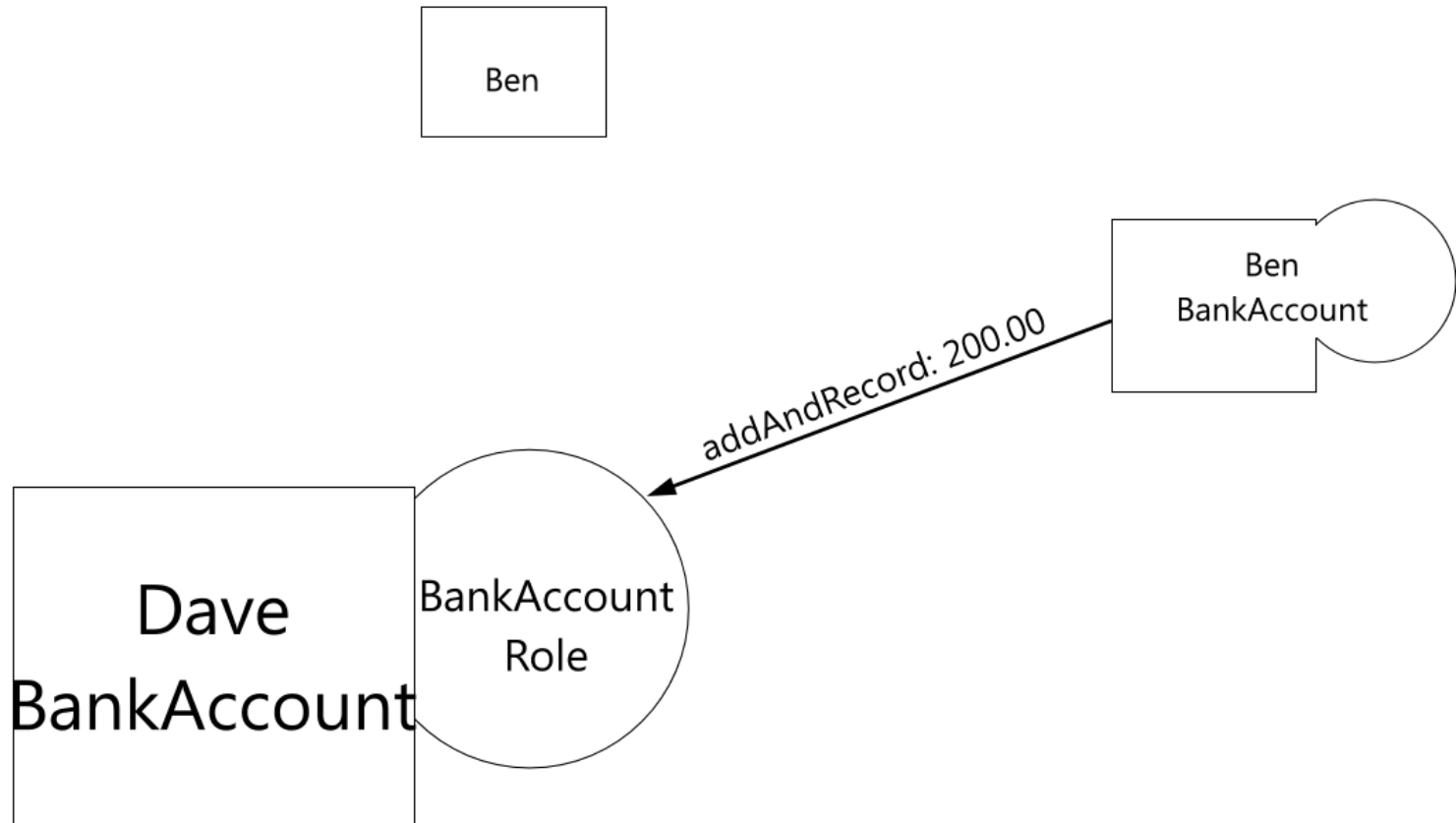
Legend

- Role
- Int. Object



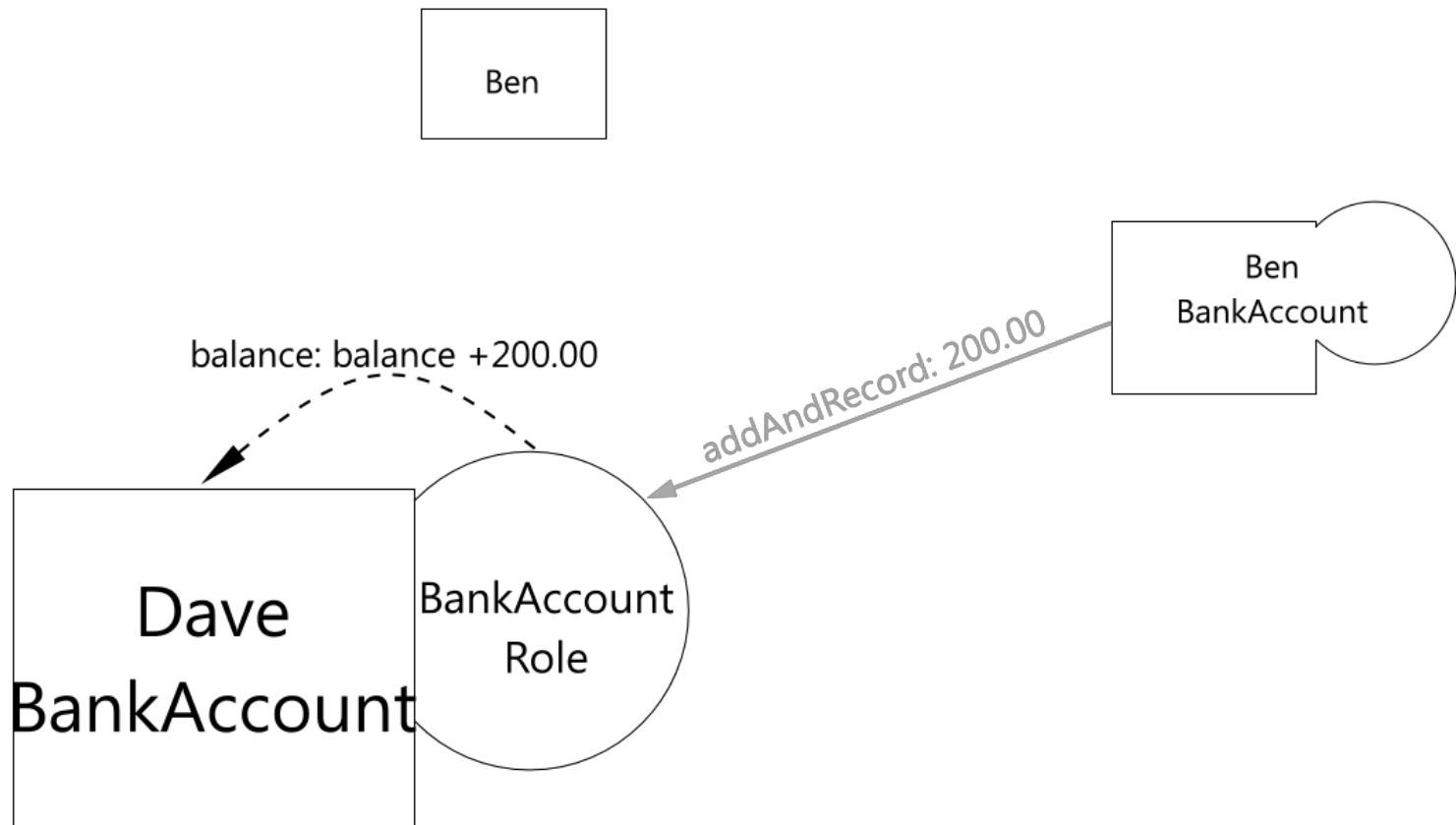
Legend

- Role
- Int. Object



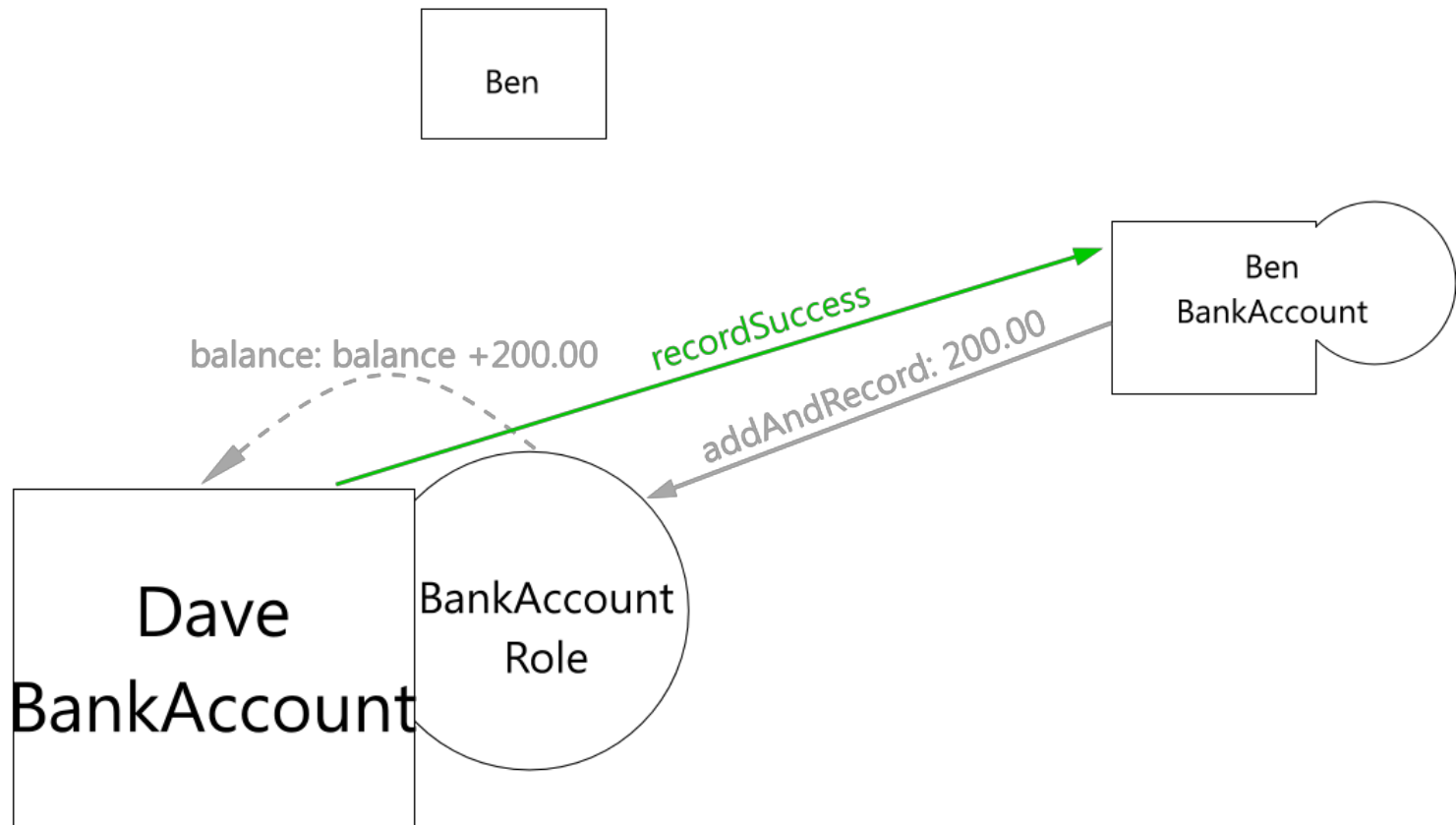
Legend

- Role
- Int. Object



Legend

- Role
- Int. Object



?? ??

Context Oriented Programming

Legend:

□ Layer

○ Object

Ben

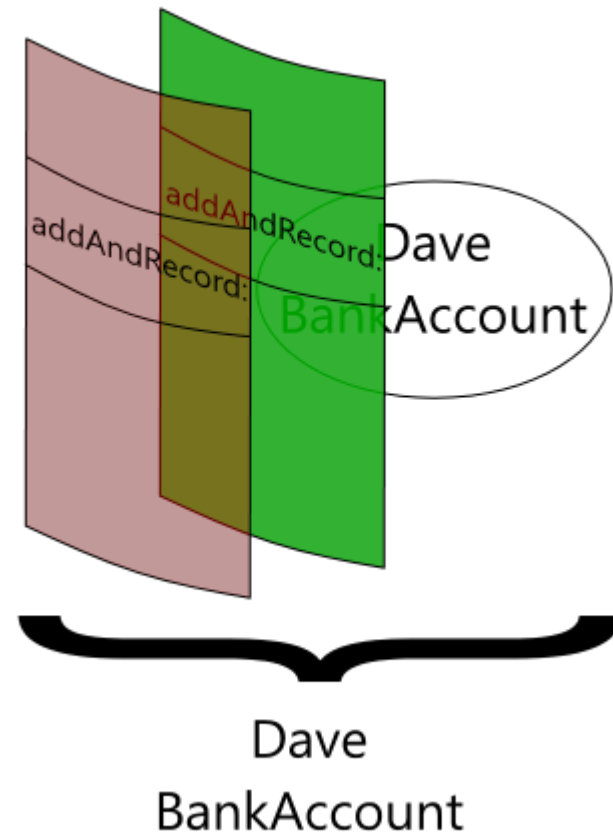
Ben
BankAccount

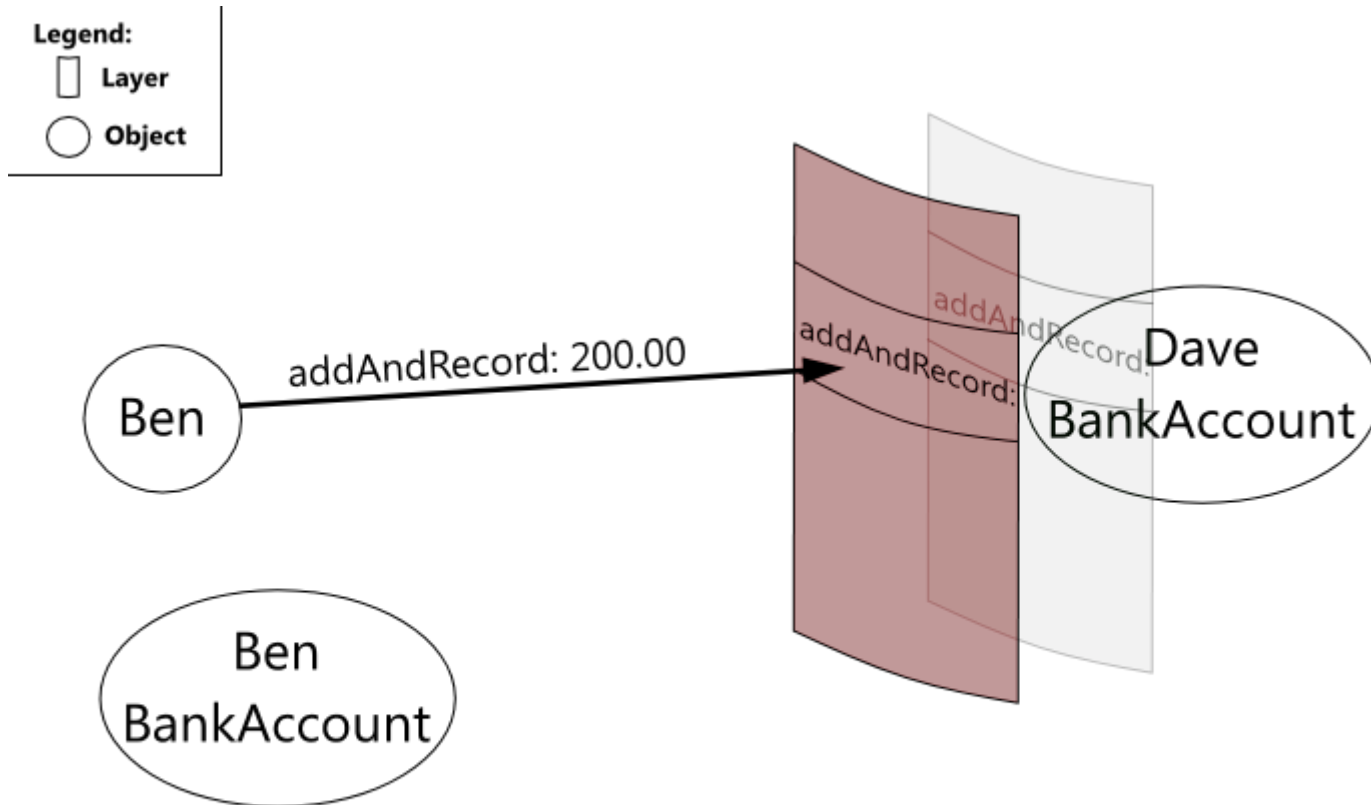
Dave
BankAccount

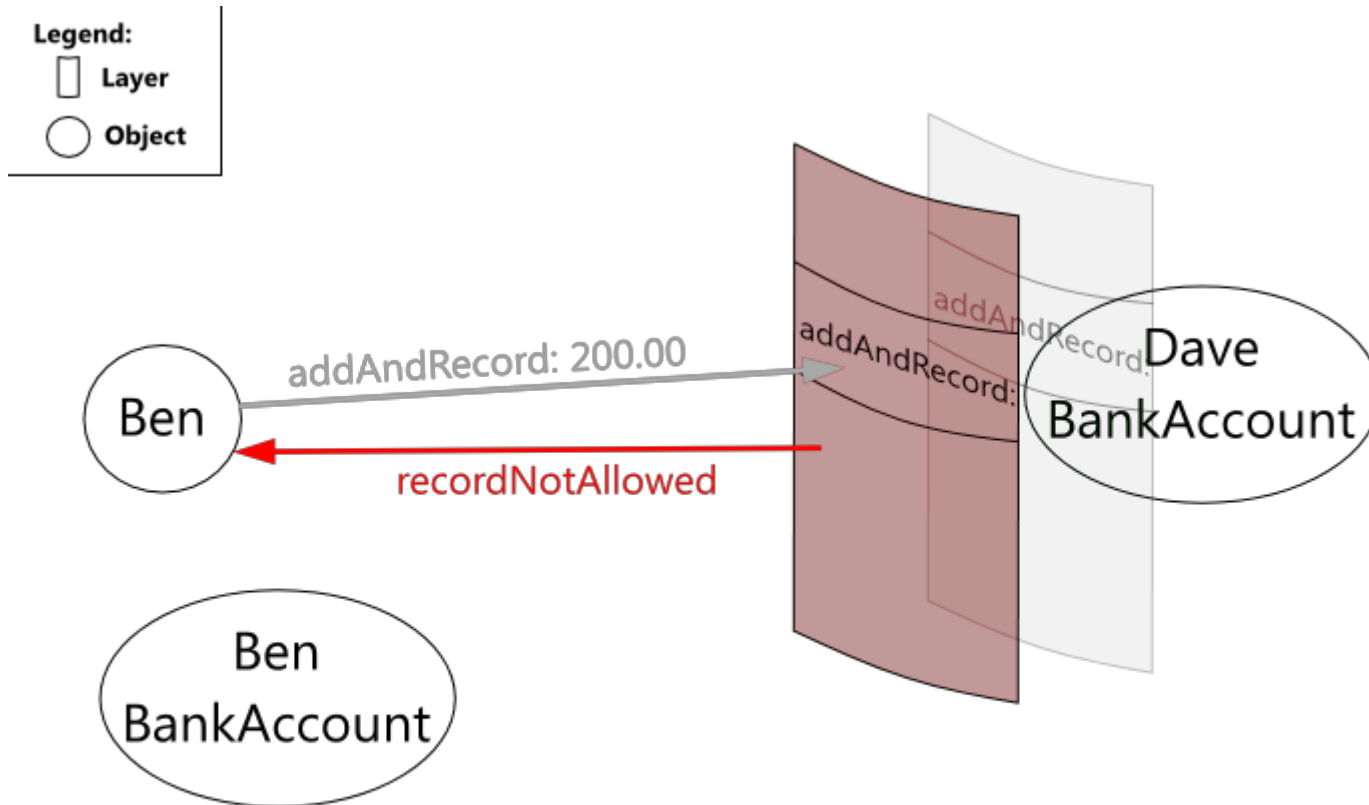
Legend:

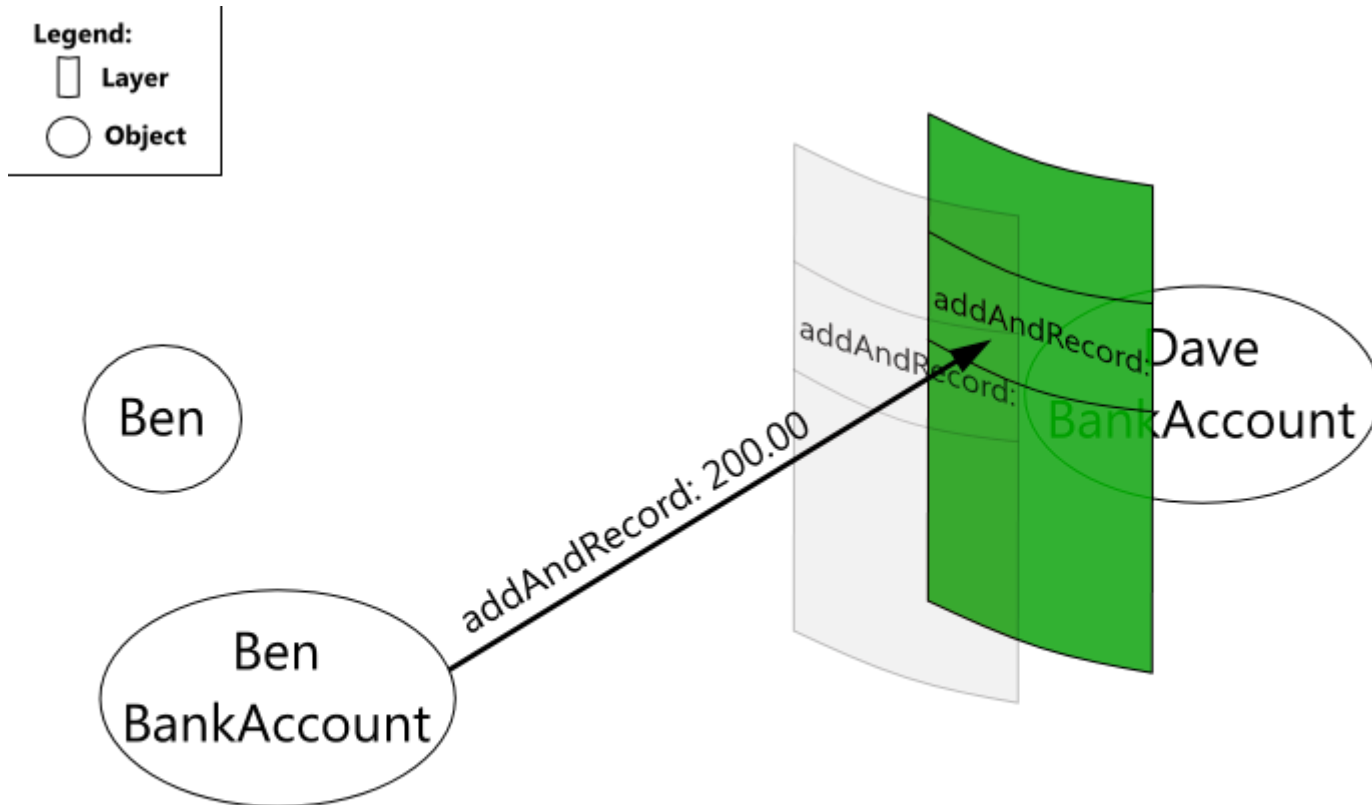
□ Layer

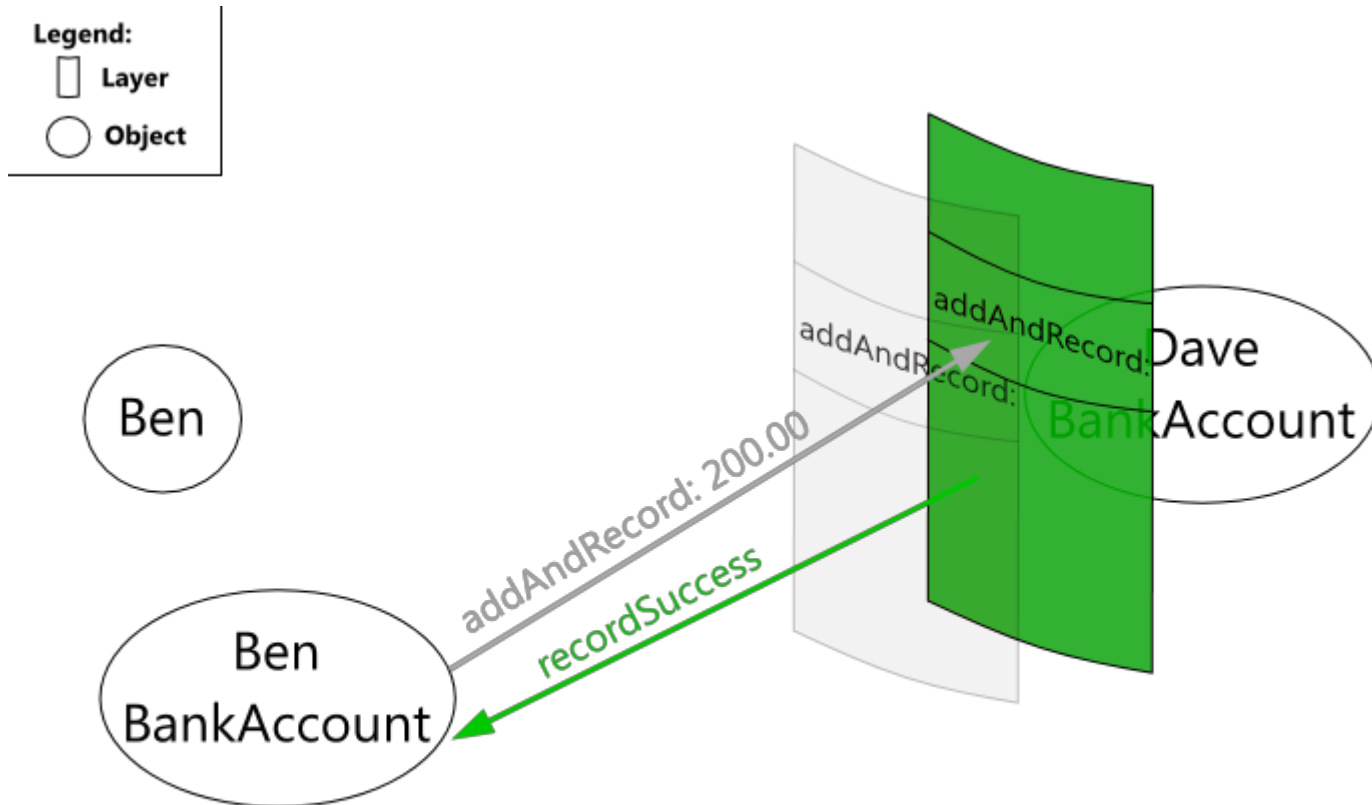
○ Object









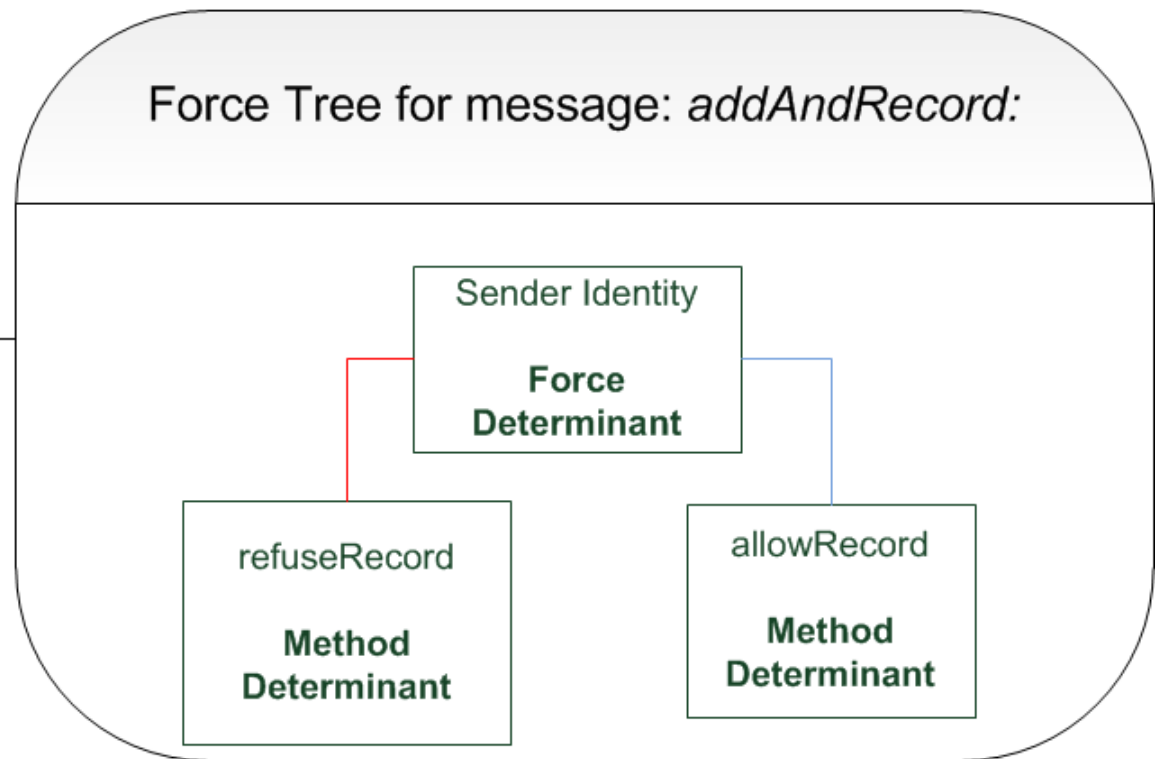
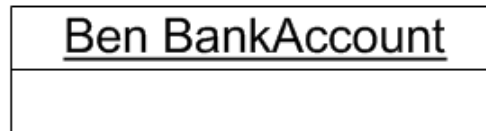
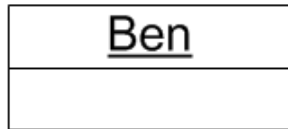


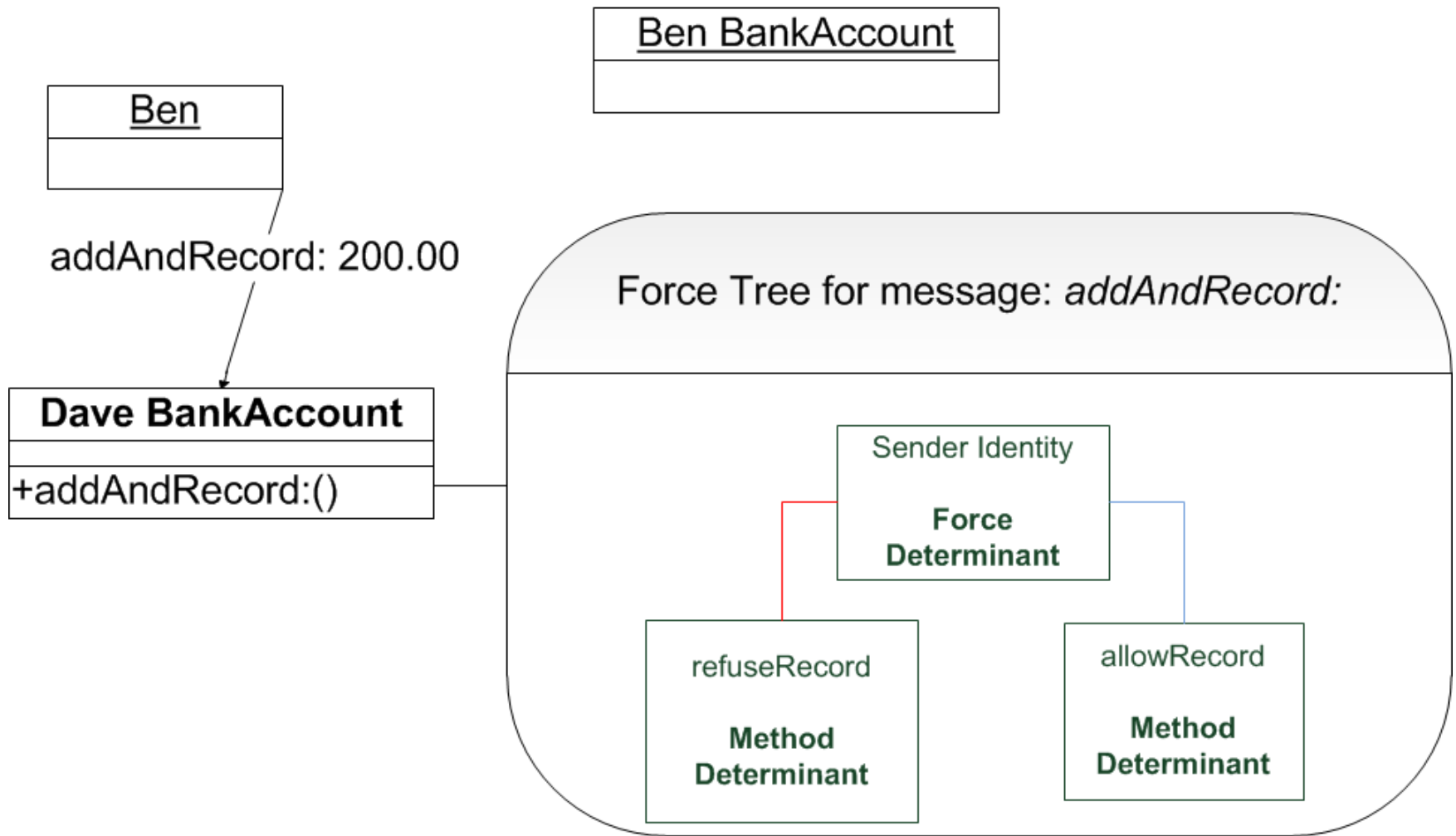
Subjective Message Behavior

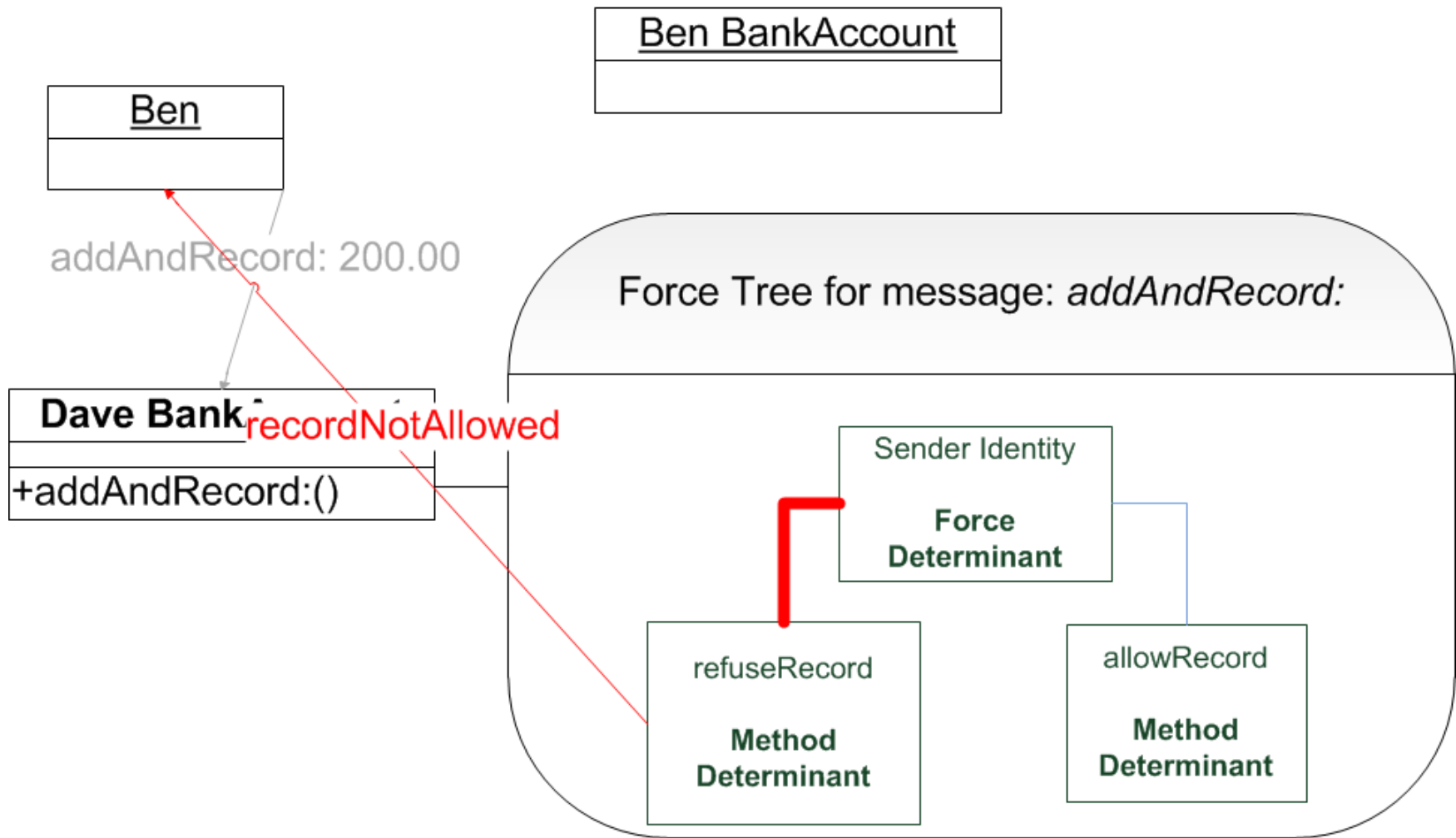
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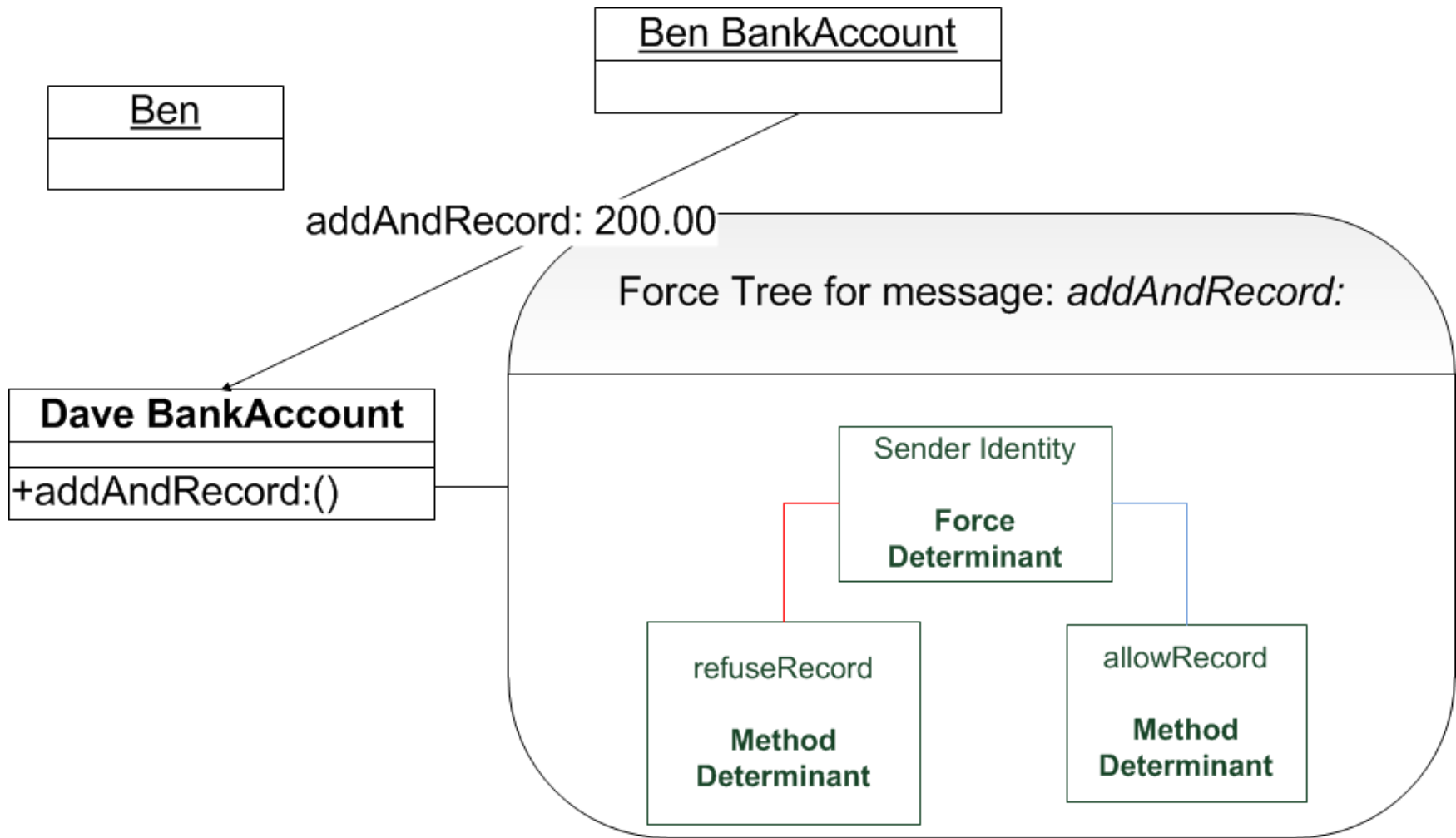
<u>Ben BankAccount</u>

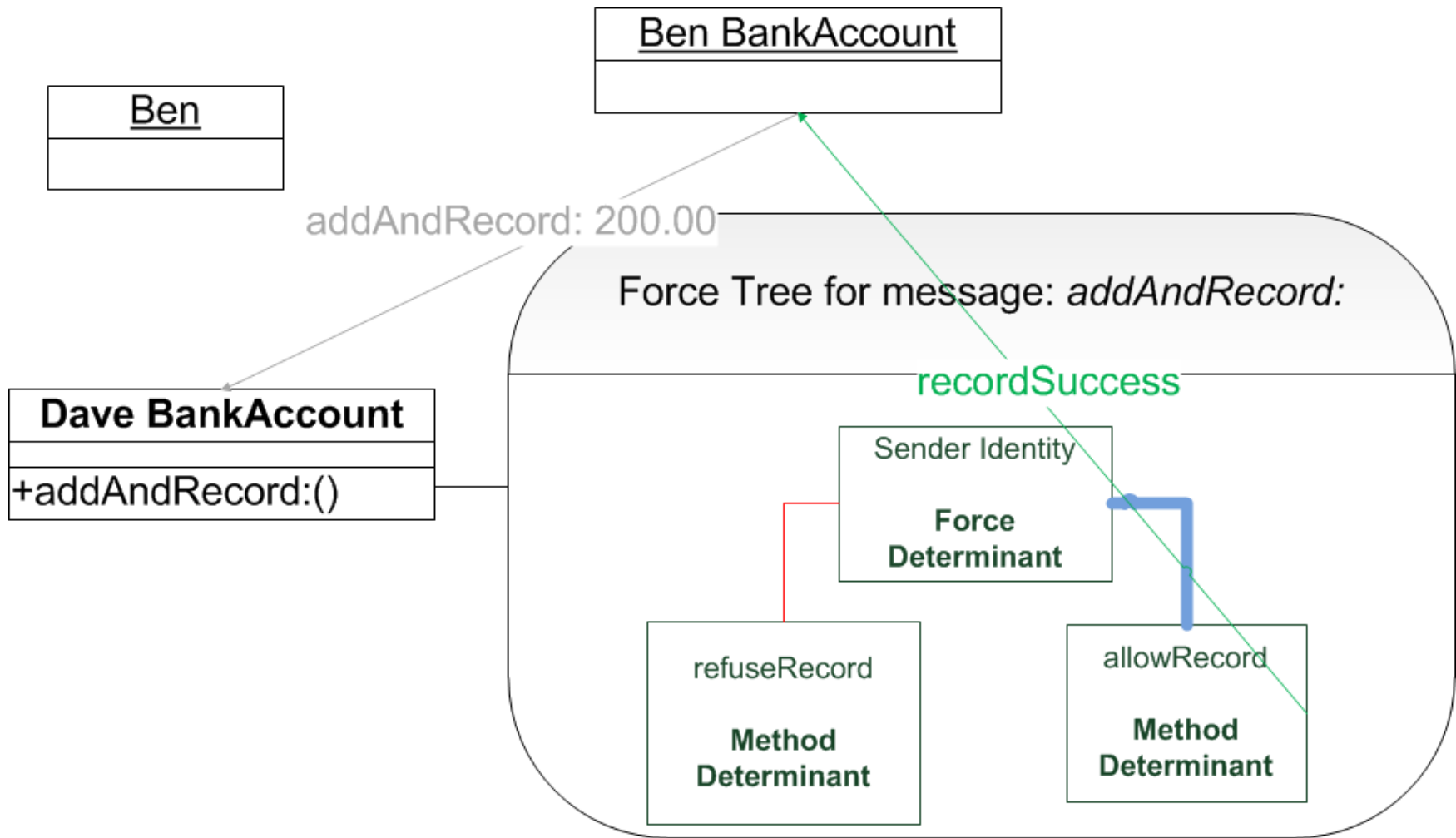
Dave BankAccount
+addAndRecord:()











Problem

Problem

Fixed Model

Problem

Implicit Model

Problem

Static Model

Subjectopia

Subjectopia

Explicit Model

Subjectopia

2npl6clobig

Explicit Model

Decision Strategy

Subjectopia

2npl6clobig

Explicit Model

Decision Strategy

Subject

Subjectopia

2npl6clobig

Explicit Model

Decision Strategy

Subject

Contextual Element

Subjectopia

Dynamic Model

Subjectopia

2npl6clobig

Dynamic Model

Implemented in Smalltalk

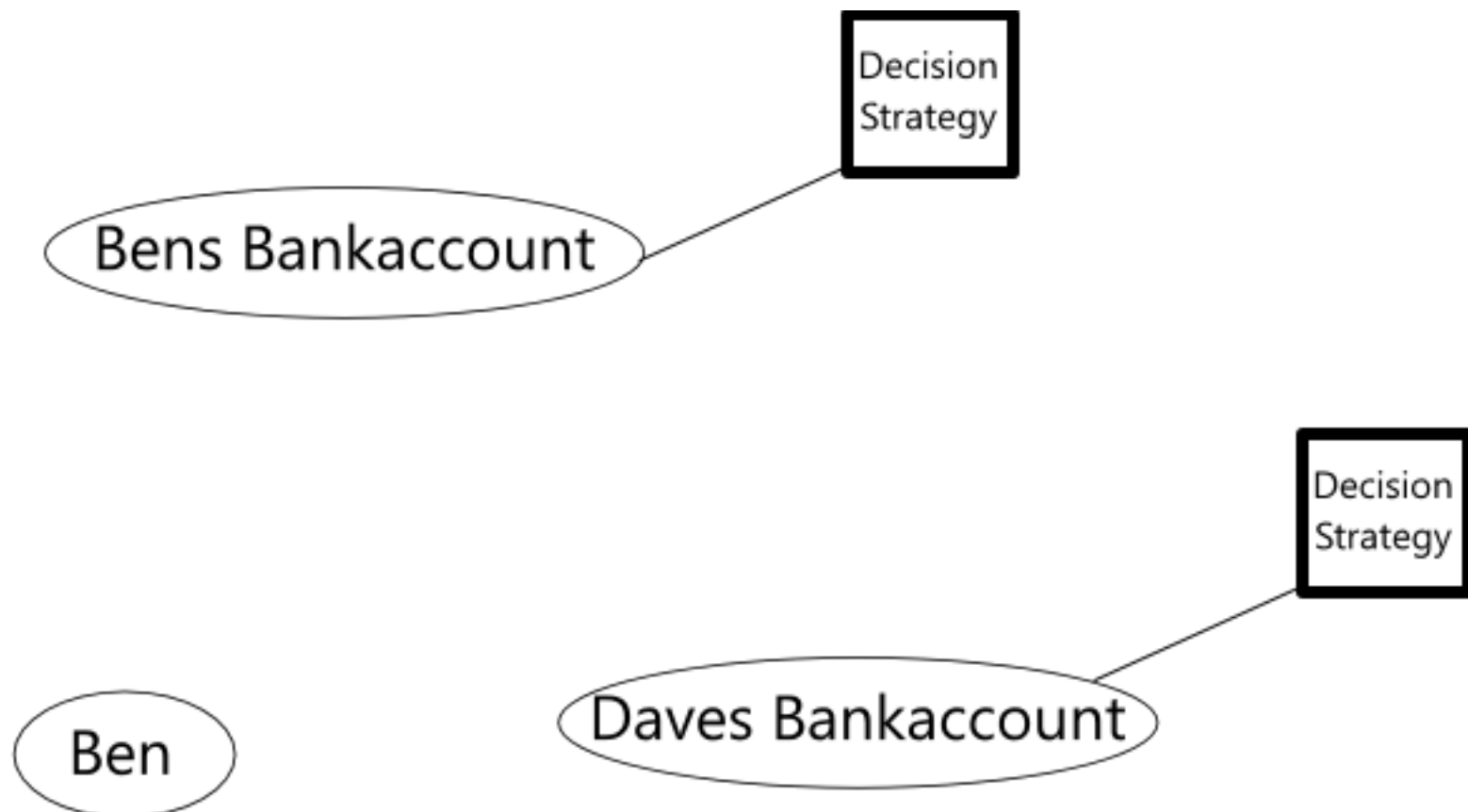
Comparison

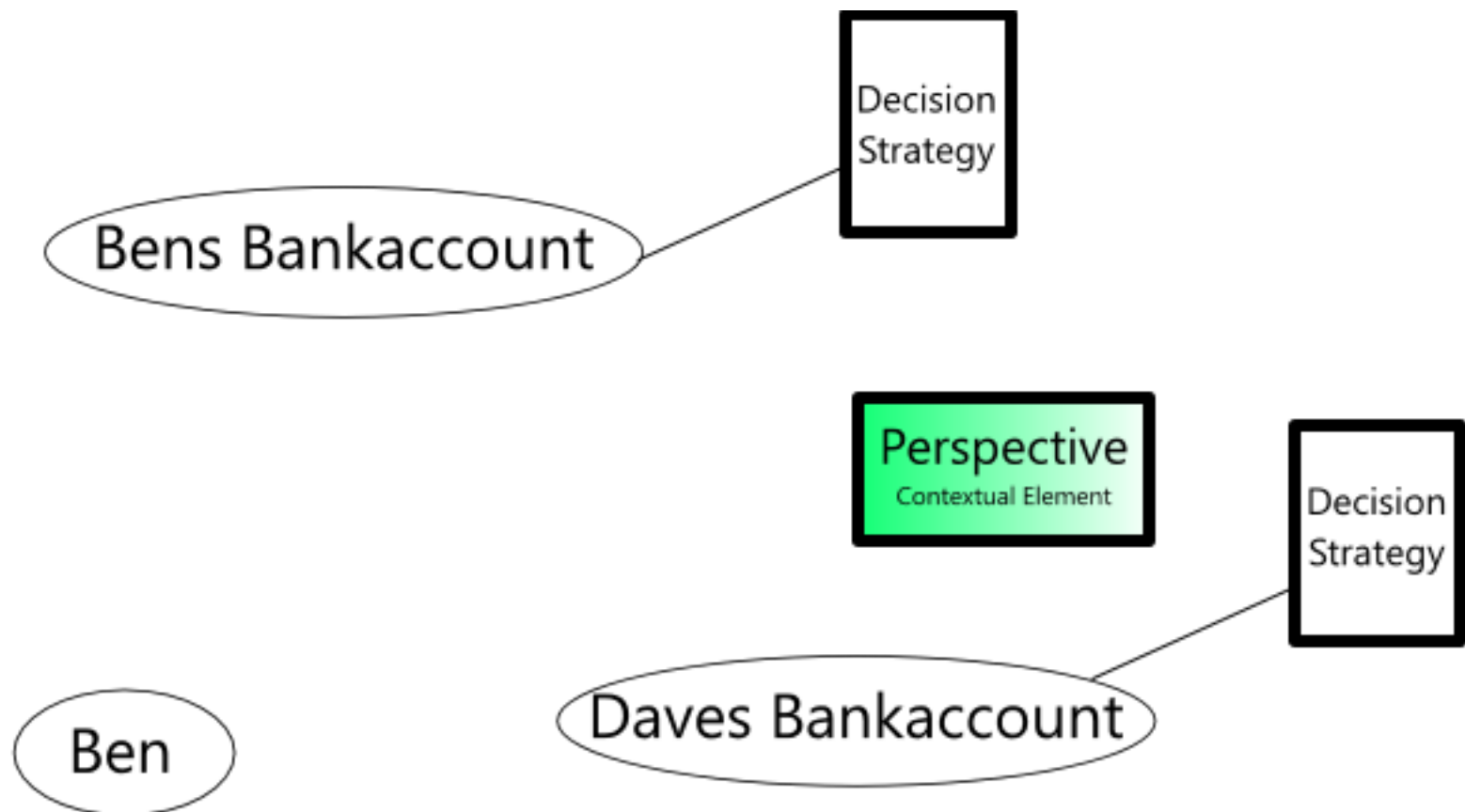
Subjective Models		Dynamic model	Explicit subject	Explicit decision	Explicit context	Dynamic behavior
Previous Approaches	Perspectives	.	✓	.	.	.
	Roles	.	✓	.	.	✓
	COP	.	.	.	✓	✓
	Subjective Message Behavior	.	.	✓	✓	.
SUBJECTIVITY		✓	✓	✓	✓	✓

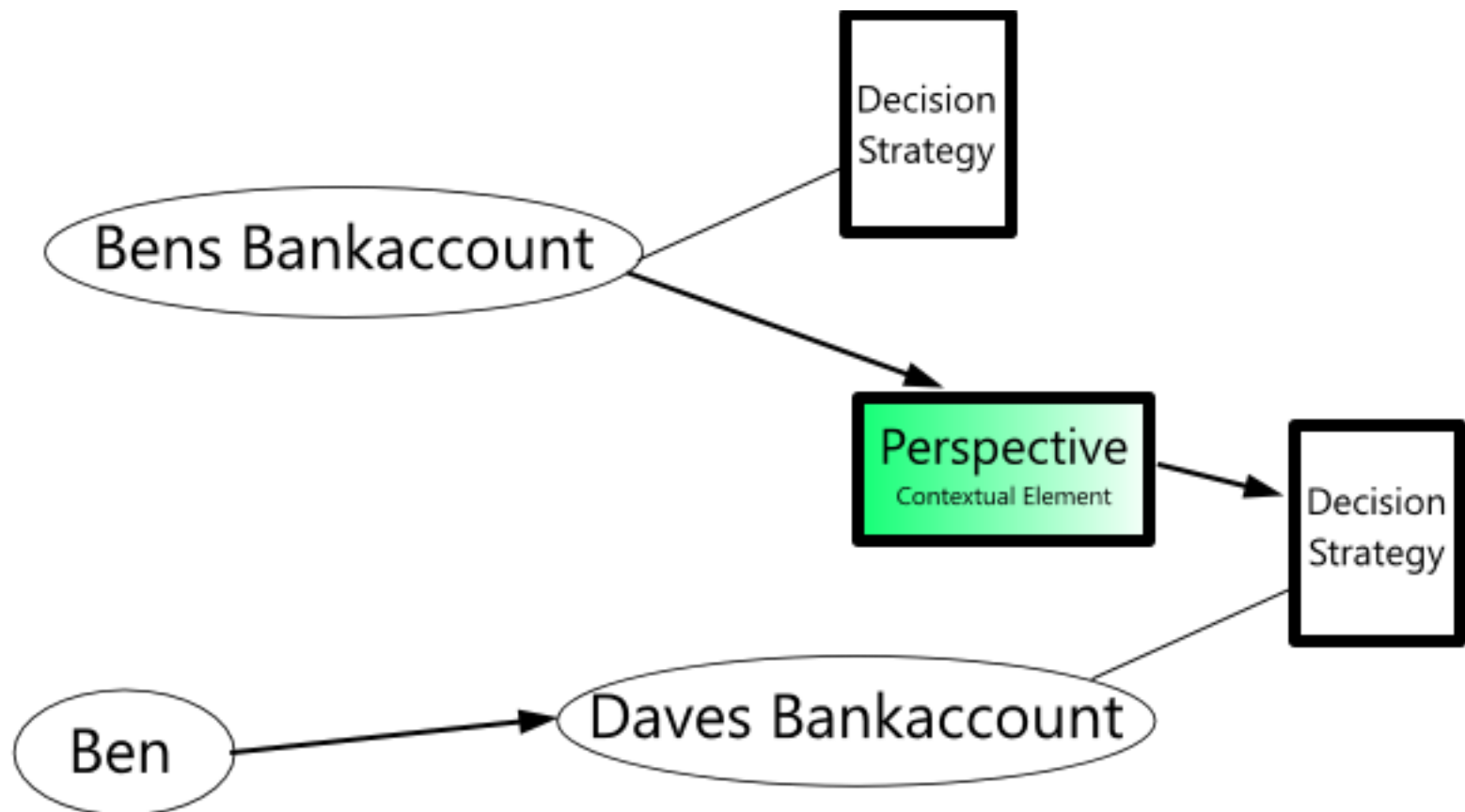
Bens Bankaccount

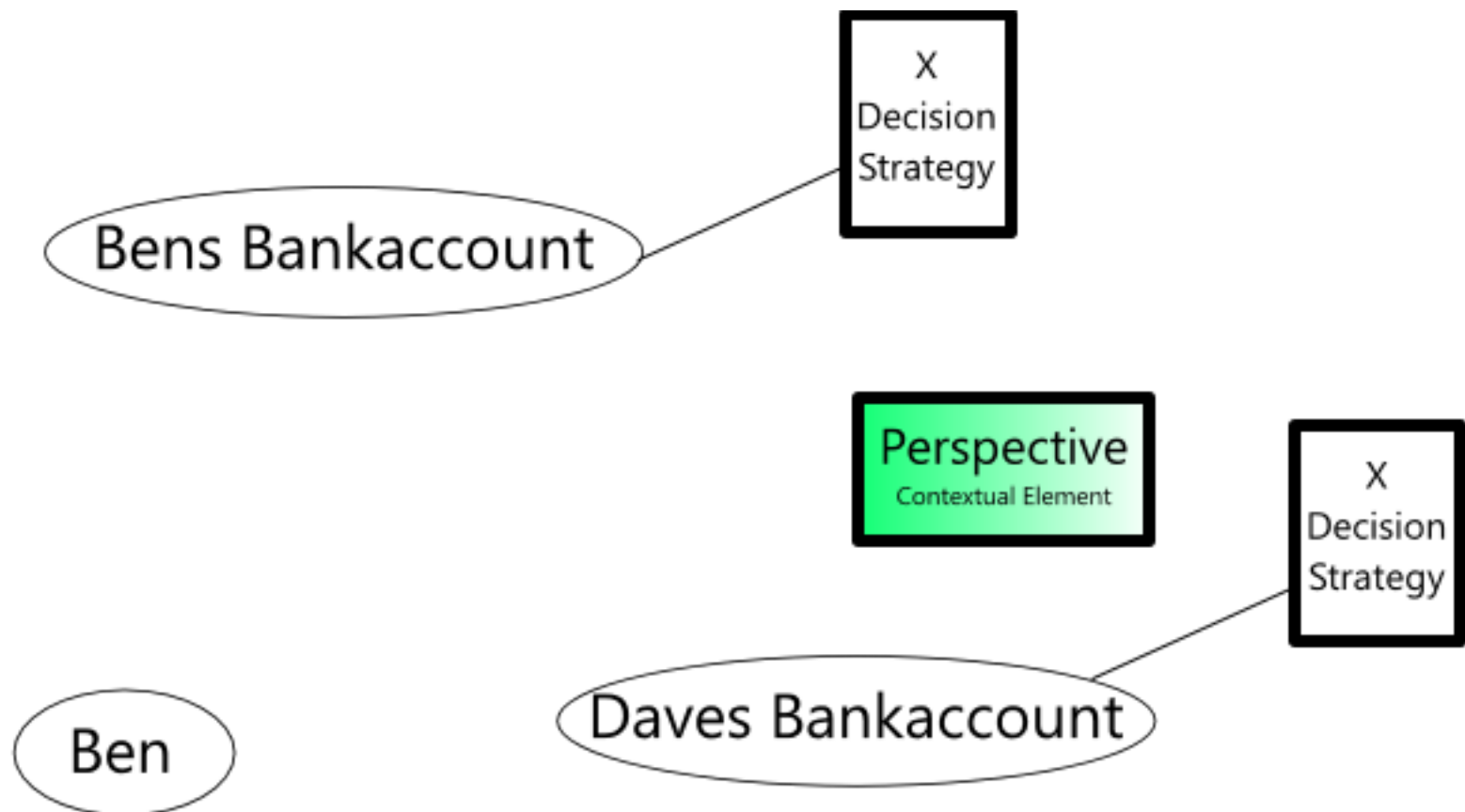
Ben

Daves Bankaccount

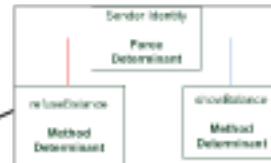






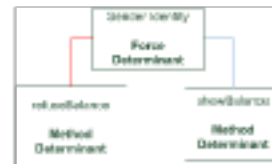


Bens Bankaccount



Ben

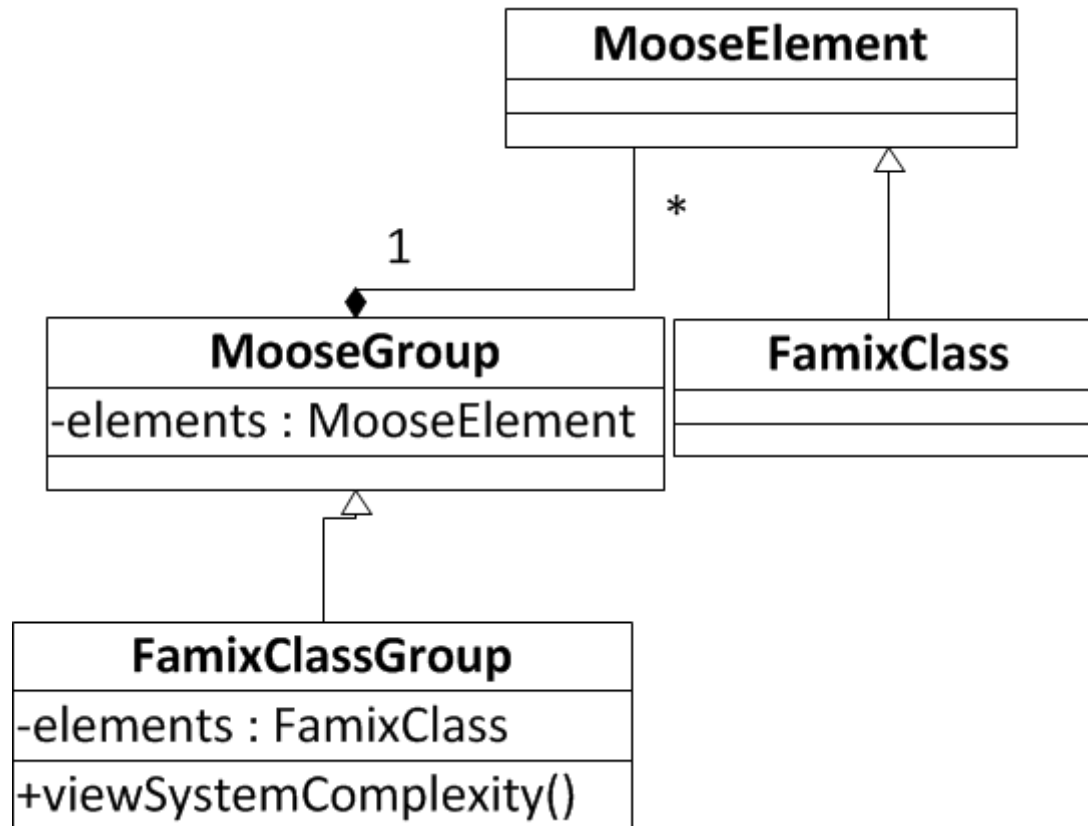
Daves Bankaccount



DEMO Moose

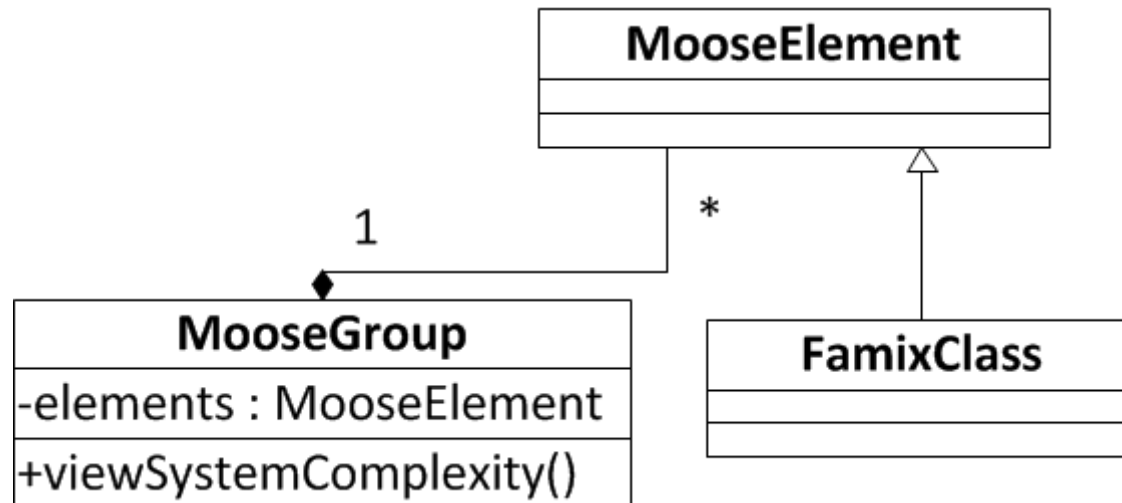
Moose

IA10026



Moose

IA10026



Subjectopia

<http://www.squeaksource.com/Decisionstrategy>

Additional slides of Demo