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Representing Aspects In Design Model

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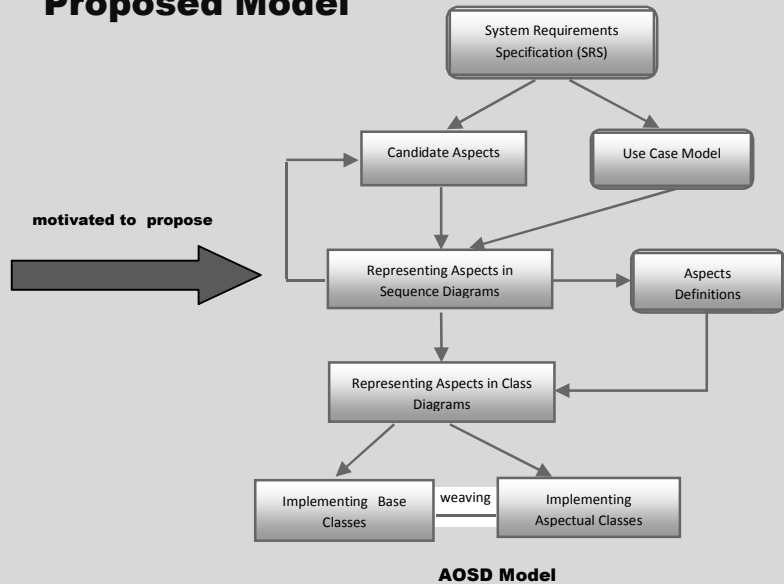
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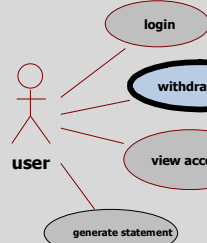
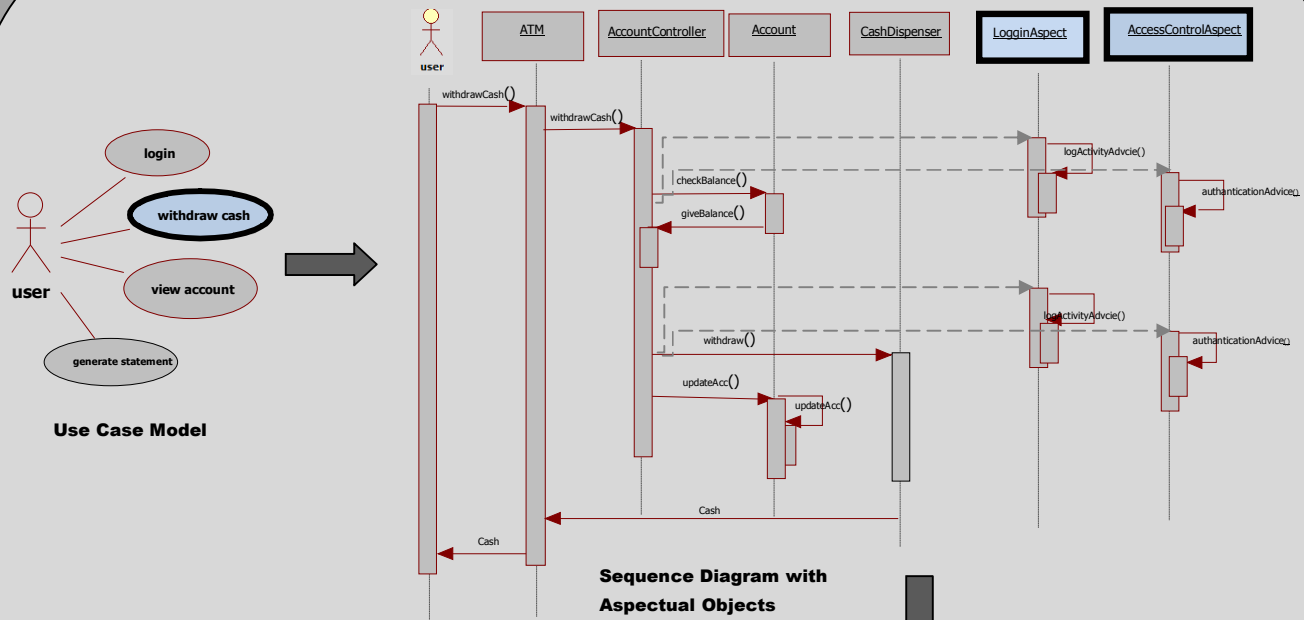
Problems/Motivation

- No design model in existence for effectively representing Aspects
- No effective mechanism in use for identifying and representing Aspects in Analysis and Design phases
- No effective mechanism in use for showing interaction of Aspects with Base Program Model
- No mature design model in existence for Aspects which could be interpreted in Implementation (Code).
- Need for Unified Design model of Aspect-Oriented Software Development

Proposed Model



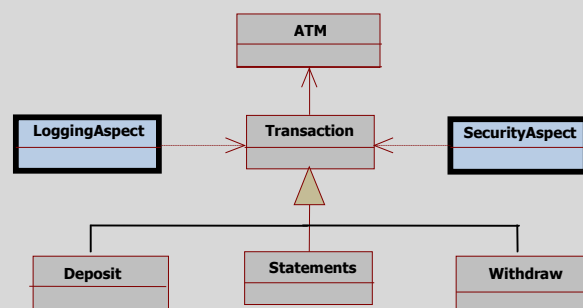
Impact



Use Case Model

Results

- Representation of Aspects along with Base Functions in Design Model
- Facilitates designers to identify interaction of Aspects with Base program
- Facilitates designers to identify Aspects, Join Points and ultimately helps writing effective point cuts and advices
- Easy design to interpret in Implementation



Class Diagram with Aspects