Class: Template Generator	
Super Class: Sub Class: Responsibility: Combine Everything	Collaboration: CP, Scope, Pattern,
Contract: Get input from user	Operator, Formula
Class: Formula	
Super Class: Sub Class: Responsibility: Contain hard coded formulas Tables 1,3,4,5	Collaboration:
Contract:	

Class: Scope	
Super Class: Sub Class: Responsibility: Know range of execution Know the scope of property Contract: Determine table for pattern	Collaboration: Formula ern used
Class: Before R	
Super Class: Scope Sub Class: Responsibility: Contract:	Collaboration:
Class: Global	
Super Class: Scope Sub Class: Responsibility: Contract:	Collaboration:

Class: After L until R	
Super Class: Scope Sub Class: Responsibility:	Collaboration:
Contract:	
Class: After L	
Super Class: Scope Sub Class: Responsibility: Contract:	Collaboration:
Class: Between L and R	
Super Class: Scope Sub Class: Responsibility:	Collaboration:
Contract:	

Class: Pattern	
Super Class: Sub Class: Responsibility: Execution Time LTL Formula Table Contract: Gets "LTL formula from	Collaboration: Formula Scope
Class: Absence	
Super Class: Pattern Sub Class: Responsibility: Contract:	Collaboration:
Class: Existence	
Super Class: Pattern Sub Class: Responsibility: Contract:	Collaboration:

Class: Universality	
Super Class: Pattern Sub Class: Responsibility:	Collaboration:
Contract:	
Class: Precedence	
Super Class: Pattern Sub Class: Responsibility:	Collaboration:
Contract:	
Class: Response	
Super Class: Pattern Sub Class: Responsibility:	Collaboration:
Contract:	

Class: Strict Precedes	
Super Class: Pattern Sub Class: Responsibility:	Collaboration: Proposition
Contract:	

Class: Proposition

Super Class: Pattern

Sub Class: Atomic Preposition, Composite Preposition

Responsibility: Collaboration: Proposition Type Formula (Table 1)

LTL Description

Contract: Replace CPs with LTL description

Class: Atomic Proposition

Super Class: Proposition

Sub Class:

Responsibility: Collaboration:

Contract:

Class: Composite Composition

Super Class: Proposition

Sub Class: At least one, Consecutive, Parallel, Eventual

Responsibility: Collaboration:

Conditional

Event

Hold

Contract:

Class: Eventual	
Super Class: Composite Proposition Sub Class: Responsibility:	Collaboration:
Contract:	
Class: Parallel	
Super Class: Composite Proposition Sub Class: Responsibility: Contract:	Collaboration:
Class: At Least One	
Super Class: Composite Proposition Sub Class: Responsibility:	Collaboration:
Contract:	

Class: Consecutive	
Super Class: Composite Proposition Sub Class: Responsibility:	Collaboration:
Contract:	

Class: And Operator	
Super Class: Operator Sub Class: New And R, New And Responsibility: LTL description CPs	d Minus L, New And L Collaboration: Composite Preposition
Contract: Replace & with logic from	om section 4
Class: New And L	
Super Class: And Operator Sub Class: Responsibility: Contract:	Collaboration:
Contract.	
Class: New And Minus	L
Super Class: And Operator Sub Class: Responsibility:	Collaboration:
Contract:	

Class: New And R	
Super Class: And Operator Sub Class: Responsibility:	Collaboration:
Contract:	

Useless Classes?

These are some of the classes we believed to not hold any responsibility or usage, however we are unsure if they might be needed later

- Proposition Type
- Event
- Conditional
- Hold
- Operator
- Imply
- Or (Disjunction)
- And (Conjunction)
- Not (Negation)
- Temporal Operator
- Until
- Eventually
- Always
- NextBoolean Operator