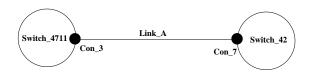
Software Engineering - Exercise Sheet 9

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Exercise 1

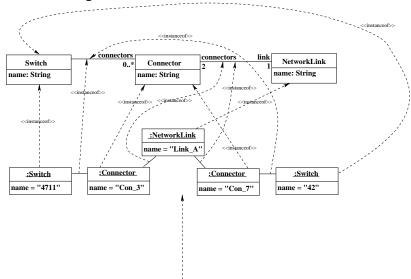


► Metamodel

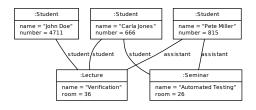
g	connectors		connectors	link	NetworkLink
Switch	0*	Connector	2	1	
name: String		name: String			name: String
			l		

Exercise 1

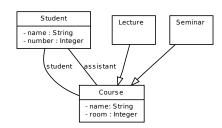
► Classifier Diagram



Exercise 2



► Class Diagram





Exercise 3.1(i)

We extend ModelElement by a field name of type String

ModelElement

name: String

Therefore we are able to name modelling components.

Exercise 3.1(ii)

We intruduce a new enumeration TimerKind and add a corresponding field kind to the Timer

Timer

kind: TimerKind

<<enum>> TimerKind

ConstantTimer RandomTimer SyncTimer

• • •

Exercise 3.1(iii)

We intruduce a new enumeration ListenerKind and add a corresponding field kind to the Listener

Listener

kind: ListenerKind

<<enum>> ListenerKind

GraphFullResults GraphResults

...

Exercise 3.1(vi)

We intruduce a new enumeration LogicKind and add a corresponding field kind to the Logic

Logic

kind: LogicKind

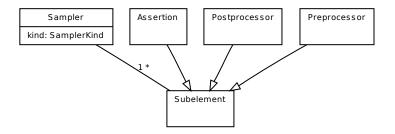
<<enum>> LogicKind

SimpleController LoopController

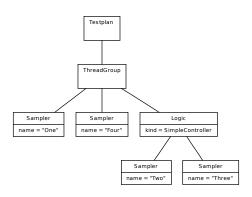
...

Exercise 3.2

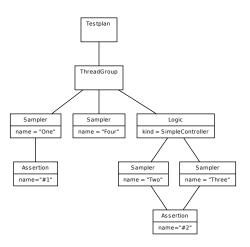
We extend the model by a component Subelement and add a 1..* relation between Sampler and Subelement. Then, we add the subcomponents Assertion, Preprocessor and Postprocessor.



Exercise 3.3 (a)



Exercise 3.3 (b)



Note that the concrete and the abstract syntax differ slightly here.



Exercise 3.3 (c)

