

Constraints.xtend

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/* (c) Andrzej WÄ...owski 2014
 * A set of constraints for the FiniteStateMachine example, implemented in Xtend.
 * I avoid EMF integration for constraints on purpose, to keep this simple.
 * IMHO, you should always avoid the EMF integration for constraints, if you do
 * not explicitly need it. It seems just way to complex.
 */

package JUnitDomain.validation

import JUnitDomain.Fixture

class Constraints {

    /* To solve the exercise, just replace the "true" constants
     * with suitable expressions and test them with some instance data */

    def static dispatch constraint (Fixture it) {
        // in every fixture, an after method has a suitable After annotation
        (if(after != null) after.annotation instanceof JUnitDomain.After else false )
        &&
        // every before method has to be annotated with a Before annotation
        (if(before != null) before.annotation instanceof JUnitDomain.Before else false )
    }

    def static dispatch constraint (Suite it) {
        // the collection of tests have to be a subset of the inherited collection of methods
        tests.forall[t | (if(t instanceof JUnitDomain.Method) true else false )]
    }

    /* Fall back for all types that are not constrained */
    def static dispatch boolean constraint(EObject it) {
        true /* do not replace this one :) */
    }

}

/*
 * SMDP 2014
 * assignment 4 - junit Constraints
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 */
```