TYPO3.Flow - Feature #6712

Implement mixin support

2010-03-05 18:46 - Robert Lemke

Status:	Accepted		**Start date:**	
Priority:	Should have		**Due date:**	
Assignee:	Robert Lemke		**% Done:**	0%
Category:	AOP		**Estimated time:**	18.00 hours
Target version:				
PHP Version:			**Complexity:**	
Has patch:				

Description

With the current implementation of introductions / intertype declarations it is -like in most other AOP frameworks - only possible to introduce interfaces. However, it would be very handy being able to introduce properties along with some methods.

A very common use case would be introducing a new property along with a getter and a setter method:

```
/**
 * @entity
 * @scope prototype
 */
class BonusCustomerDetails {

  /**
    * @var string
    */
   protected $bonusCode;

   public function getBonusCode() {
       return $this->bonusCode;
   }

   public function setBonusCode($bonusCode) {
      $this->bonusCode = $bonuscode;
   }
}
```

This property + methods could be introduced into the Customer class by using a new annotation:

```
/**
 * @mixin F3\Bar\Domain\Model\Customer
 * @entity
 * @scope prototype
 */
class BonusCustomerDetails {

  /**
    * @var string
    */
   protected $bonusCode;

   public function getBonusCode() {
       return $this->bonusCode;
   }

   public function setBonusCode($bonusCode) {
      $this->bonusCode = $bonuscode;
   }
}
```

The @mixin annotation would implicitly generate a new aspect which implements around advices for the getter and setter method.

Additionally a new property will be introduced into the Customer class which refers to the BonusCustomerDetails. The implementation of the around advice now simply refers to the original methods within the BonusCustomerDetails.

History

#1 - 2010-03-09 17:19 - Robert Lemke

- Start date deleted (2010-03-05)

- Estimated time set to 18.00 h

don't forget that the class schema builder must be able to detect the introduced property

#2 - 2010-03-11 10:33 - Robert Lemke

- Target version changed from 1.0 alpha 8 to 1.0 alpha 9

#3 - 2010-05-28 17:41 - Robert Lemke

- Target version deleted (1.0 alpha 9)