

TYPO3.Flow - Feature #3588

Support value objects in the Object Factory

2009-06-05 11:24 - Robert Lemke

Status: Accepted	Start date:
Priority: Should have	Due date:
Assignee: Robert Lemke	% Done: 0%
Category: Object	Estimated time: 12.00 hours
Target version:	Complexity:
PHP Version:	
Has patch:	
Description	
The Object Factory should have special support for value objects. Value objects are in fact a mixture of prototype and singleton - although multiple instances of a class may exist, we should only create one instance with the same constructor arguments. The Object Factory (and Object Manager) should return an existing value object if a new one with exactly the same arguments (properties) is requested.	
Related issues:	
Related to TYPO3.Flow - Major Feature #3585: Implement support for value objects	New 2009-06-05

History

#1 - 2009-06-26 16:23 - Robert Lemke

- Target version changed from 1.0 alpha 2 to 283

#2 - 2009-07-13 10:51 - Robert Lemke

- Target version changed from 283 to 1.0 alpha 3

#3 - 2009-07-27 12:26 - Robert Lemke

- Target version changed from 1.0 alpha 3 to 1.0 alpha 4

#4 - 2009-09-07 09:42 - Robert Lemke

- Target version deleted (1.0 alpha 4)

#5 - 2010-01-20 11:06 - Karsten Dambekalns

- Target version set to 1.0 alpha 8

#6 - 2010-03-09 17:52 - Robert Lemke

- Status changed from New to Accepted

- Priority changed from Could have to Should have

- Start date deleted (2009-06-05)

- Estimated time set to 12.00 h

- value objects are immutable because they must not have setters
- values are passed through the constructor
- calculate hash over constructor arguments + object name and use them in the registry / unit of works
- what about arrays / objects as parameters?

#7 - 2010-03-09 17:52 - Robert Lemke

/**

```
* After returning advice, generates the value hash for the object
*
* @param \F3\FLOW3\AOP\JoinPointInterface $joinPoint The current join point
* @return void
* @afterreturning classTaggedWith(valueobject) && method(*->__construct())
* @author Karsten Dambekalns <karsten@typo3.org>
```

```

*/
public function generateValueHash(\F3\FLOW3\AOP\JoinPointInterface $joinPoint) {
    $proxy = $joinPoint->getProxy();
    $hashSource = '';
    foreach (array_keys($this->reflectionService->getClassSchema($joinPoint->getClassName())->getProperties()) as $propertyName) {
        if (is_array($proxy->FLOW3_AOP_Proxy_getProperty($propertyName))) {
            $hashSource .= serialize($proxy->FLOW3_AOP_Proxy_getProperty($propertyName));
        } elseif (!is_object($proxy->FLOW3_AOP_Proxy_getProperty($propertyName))) {
            $hashSource .= $proxy->FLOW3_AOP_Proxy_getProperty($propertyName);
        } elseif (property_exists($proxy->FLOW3_AOP_Proxy_getProperty($propertyName), 'FLOW3_Persistence_Entity_UUID')) {
            $hashSource .= $proxy->FLOW3_AOP_Proxy_getProperty($propertyName)->FLOW3_Persistence_Entity_UUID;
        } elseif (property_exists($proxy->FLOW3_AOP_Proxy_getProperty($propertyName), 'FLOW3_Persistence_ValueObject_Hash')) {
            $hashSource .= $proxy->FLOW3_AOP_Proxy_getProperty($propertyName)->FLOW3_Persistence_Entity_UUID;
        }
    }
    $proxy->FLOW3_Persistence_ValueObject_Hash = sha1($hashSource);
}

```

#8 - 2010-03-11 10:32 - Robert Lemke

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

#9 - 2010-05-28 17:36 - Robert Lemke

- Target version deleted (1.0 alpha 9)