Persistence Done

Yay

Now - let's introduce the value!

Users must be sync'd to AS400

- Previously was from mysql db
- Need to change as little code as possible
- The only thing changing is how we map data
 - to / from the data source
 - "map"... mapper
- Lets substitute in a different mapper

Modify User Service

```
protected function _getMapper()

{

//return new Mapper_Db_User();

return new Mapper_As400_User();

}
```

This is the ONLY change to your code.

All else is NEW code.

What does this mapper look like?

```
    User.php ×

\Mapper As400 User
       <?php
       class Mapper As400 User
 3
      (€
 4
           protected static $pdo = null;
 5
6
7
8
           public function findAll($params = array())
                $in = array();
 9
10
                $id = isset($params['id']) ? $params['id'] : 0;
11
               $in['id'] = str pad($id, 10, '0', STR PAD LEFT);
12
13
                $firstname = isset($params['firstname']) ? $params['firstname'] : '';
14
                $in['firstname'] = $firstname;
15
16
                if (isset($params['createdBefore'])) {
17
                    $createdBefore = date('Ymd', strtotime($params['createdBefore']));
18
19
                else {
20
                    $createdBefore = '000000000';
21
22
               $in['createdBefore'] = $createdBefore;
23
24
                $out = array(
25
                    'id'=>''.
26
                    'firstname'=>''
27
                    'lastname'=>'',
28
                     'email'=>'',
29
                    'id'=>''.
30
                    'datecreated'=>''
31
```

AS400 Mapper Continued

```
$query = "CALL MYLIB.GETUSER(?, ?,?,?,?,?,?,?)";
33
34
               $stmt = $this-> getDao()->prepare($query);
35
               $stmt->bindParam(l, $in['id']);
36
               $stmt->bindParam(2, $in['firstname']);
37
               $stmt->bindParam(3, $in['createdBefore']);
38
               $stmt->bindParam(4, $out['id'], PDO::PARAM STR[PDO::PARAM INPUT OUTPUT);
39
               $stmt->bindParam(5, $out['firstname'], PDO::PARAM STR|PDO::PARAM INPUT OUTPUT);
40
               $stmt->bindParam(6, $out['lastname'], PDO::PARAM STR[PDO::PARAM INPUT OUTPUT);
41
               $stmt->bindParam(7, $out['email'], PDO::PARAM STR|PDO::PARAM INPUT OUTPUT);
42
               $stmt->bindParam(8, $out['id'], PDO::PARAM STR[PDO::PARAM INPUT OUTPUT);
43
               $stmt->bindParam(9, $out['datecreated'], PDO::PARAM STR|PDO::PARAM INPUT OUTPUT);
44
45
               $results = array();
46
47
               do {
48
                   $stmt->execute();
49
                   $results[] = $out;
50
               } while ($stmt->nextRowset());
51
52
               return $this-> populateCollection($results);
53
54
55
           public function findOne($params = array())
56
57
               $collection = $this->findAll($params);
58
59
               if (count($collection) > 1) {
60
                   throw new Exception("More than one result found");
61
62
63
               $returnOne = null:
               if (!empty($collection)) {
64
65
                   $returnOne = array shift($collection);
66
67
68
               return $returnOne;
69
```

AS400 Mapper Continued

```
71
           public function mapFromArray($array, Model User $user = null)
72
73
               if (is null($user)) $user = new Model User();
74
               $user->firstname = trim($array['firstname']);
75
               $user->lastname = trim($array['lastname']);
76
               $user->email = trim($array['email']);
               $user->id = intval($array['id']);
77
78
               $user->datecreated = date('Y-m-d', strtotime($array['datecreated']));
79
               $return[] = $user;
80
81
               return $user;
82
```

AS400 Mapper Continued

```
protected function _populateCollection($results)
 84
 85
 86
                $return = array();
 87
                foreach ($results as $result) {
 88
 89
                    $return[] = $this->mapFromArray($result);
 90
 91
 92
                return $return;
 93
 94
 95
            protected function getDao()
 96
 97
                if (self::$pdo == null) {
 98
                    self::$pdo = new PDO('odbc:iSeriesDSN', 'MYUSER',
 99
100
                return self::$pdo;
101
102
```

Whew! Done!

Check it out at

http://aaronsaray.com/midwestphp

Tweet at @aaronsaray