Zend_Db_Model - Borja Fernandez

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Zend Framework: Zend_Db_Model Component Proposal

Proposed Component Name	Zend_Db_Model
Developer Notes	http://framework.zend.com/wiki/display/ZFDEV/Zend_Db_Model
Proposers	Borja Fernandez
Revision	1.2 - 19 July 2006: Updated from community comments. (wiki revision: 15)

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1. Overview

An object that wraps a row in a database table or view, encapsulates the database access, and allows to adds domain logic on that data.

2. References

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3. Component Requirements, Constraints, and Acceptance Criteria

none

4. Dependencies on Other Framework Components

- Zend_Db

- Zend_Exception

5. Theory of Operation

Define a Class based on Zend_Db_Model_Abstract and add your own domain logic.

6. Milestones / Tasks

zone: Missing {zone-data:milestones}

7. Class Index

- Zend_Db_Model
- Zend_Db_Model_Exception

8. Use Cases

UC-01

```
// Initialization
$model = new Zend_Db_Model();
$model->setModelsDir(APP . '/models/');

// This return an object based on
// APP . '/models/' . Users.php class
$user = $model->factory('users');

// Basic insert
$user->username='myusername';
$user->password='mypass';
$user->email=$email;
$user->insert();

// associative array insert
$user->assignArray($array);
$user->insert();

// Basic update
$user->find('myusername');
$user->password='newpassword';
$user->update();


// Basic delete
$user->find('myusername');
$user->delete();
```

UC-02

```
/** Example model file based on this table
** CREATE TABLE users (
**  username varchar(12) not null primary key,
**  password varchar(12) not null,
**  group_id unsigned int
**  );
**
** CREATE TABLE groups(
**  id unsigned int primary key,
**  name varchar(12) not null
** );

// Users.php on APP . '/models/' dir
class Users Extends Zend_Db_Model_Abstract {
 public function loadObjects() {
  $this->addObject('group','group_id');
 }
}

class Groups Extends Zend_Db_Model_Abstract {}

// Change group name if is an admin user
$users->find($id);
if ($users->group->name == 'ADMIN') {
 $users->group->name = 'SUPERADMIN';
}
$users->save();

// Others uses
echo $users->lastLogin->dateValue('Year: %Y');
```

9. Class Skeletons

```
Zend_Db_Model
 setModelsDir($dir)
 setAdapter($db)
 factory($model,$id = null)

Zend_Db_Model_Abstract
 public function __construct($object,$id = null)
 private function _checkDb()
 private function describeTable()
 public function insert()
 public function update()
 public function delete()
 public function toArray()
 public function getAdapter()
 public function assignArray($data)
 public function addField($field,$data,$filter = null)
 public function key($keyname = null)
 public function keyvalue()
 public function table($tablename = null)
 public function assignPostVars()
 public function find($id)

Zend_Db_Model_Exception
```

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