# CLASSES

## Class Autoloader

### Autoload.php

* Map namespace to folder
* Include classes following their namespaces
* Fallback autoloader
* Can use PEAR naming convention as well
* Can check if a file is loadable

## Configuration

### Configuration.php

* Contains all the default values of the framework
* Can lock values
* Can load configuration from
  + INI files (section, inheritance, arrays, comments)
  + Array
  + XML (not supported yet)
* Can load from multiple sources at the same time (replacing existing values)

## Mapper

### Map.php

* Load all the information needed to map classes from database to PHP
* Load information from
  + XML file
  + Array
  + INI file (not supported yet)
* Define a class with
  + name
  + identity (set of fields that make an object unique)
  + database table
  + inherited class
  + attributes
    - name
    - attributeType
      * HTML input
      * Validator (PHP and JavaScript) and isEmpty
      * Format (from or to database)
      * Random Value generator (for testing purpose)
    - database field name
  + associations to other classes
    - name
    - cardinality (one-to-one, one-to-many,many-to-many)
    - min and max object of this class
    - whether or not to erase the object with the associated object
    - database table
    - association class (in itself is a complete class like the others)

## Query

### Query.php

* uses Object Query Language
  + SELECT c.\*,a.\*,a2c.\*
  + FROM employee e
  + JOIN address ON e ASSOCIATION a2c
  + WHERE a.id=? OR (e.id=? AND e.name=?)
  + ORDER BY a.streetName
  + LIMIT 10,2
* Take arguments where you can use operators and expressions

(the OQL takes only ? then replace it by the operator/expression and arguments)

* Result in an Object Class collection

## Object

### Object.php

* Has all the setter/getter
* Is used like
  + $employee=new Object('employee');
  + $employee->login='employee1@mycompany.com';
  + $employee->type='secretary';
  + $employee->save();
  + $address=new Object('address');
  + $address->streetName='Pennsylvania Avenue';
  + $address->streetNumber='1600';
  + $employee->address[]=$address;
  + $employee->save();
  + $employee->delete();

## Form

### Form.php

* Automatic HTML form
* Validation (PHP and JavaScript/JQuery)
* Auto HTML output, templates
* Completely integrated into objects
  + $form=$employee->getForm();
  + if($form->receive($\_POST) && !$form->error()){
  + $employee->save();
  + $form->reset();
  + }else
  + echo $form;