

Integrating with CodeIgniter

This is recipe for using Doctrine 2 in your [CodeIgniter \(http://www.codeigniter.com\)](http://www.codeigniter.com) framework.

This might not work for all CodeIgniter versions and may require slight adjustments.

Here is how to set it up:

Make a CodeIgniter library that is both a wrapper and a bootstrap for Doctrine 2.

Setting up the file structure

Here are the steps:

- Add a php file to your system/application/libraries folder called Doctrine.php. This is going to be your wrapper/bootstrap for the D2 entity manager.
- Put the Doctrine folder (the one that contains Common, DBAL, and ORM) inside that same libraries folder.
- Your system/application/libraries folder now looks like this:
system/applications/libraries -Doctrine -Doctrine.php -index.html
- If you want, open your config/autoload.php file and autoload your Doctrine library.

```
<?php $autoload['libraries'] = array('doctrine');
```

Creating your Doctrine CodeIgniter library

Now, here is what your Doctrine.php file should look like. Customize it to your needs.

```

<?php
use Doctrine\Common\ClassLoader,
    Doctrine\ORM\Configuration,
    Doctrine\ORM\EntityManager,
    Doctrine\Common\Cache\ArrayCache,
    Doctrine\DBAL\Logging\EchoSQLLogger;

class Doctrine {

    public $em = null;

    public function __construct()
    {
        // Load database configuration from CodeIgniter
        require_once APPPATH.'config/database.php';

        // Set up class loading. You could use different autoloaders, provided by your favorite framework,
        // if you want to.
        require_once APPPATH.'libraries/Doctrine/Common/ClassLoader.php';

        $doctrineClassLoader = new ClassLoader('Doctrine', APPPATH.'libraries');
        $doctrineClassLoader->register();
        $entitiesClassLoader = new ClassLoader('models', rtrim(APPPATH, "/"));
        $entitiesClassLoader->register();
        $proxiesClassLoader = new ClassLoader('Proxies', APPPATH.'models/proxies');
        $proxiesClassLoader->register();

        // Set up caches
        $config = new Configuration;
        $cache = new ArrayCache;
        $config->setMetadataCacheImpl($cache);
        $driverImpl = $config->newDefaultAnnotationDriver(array(APPPATH.'models/Entities'));
        $config->setMetadataDriverImpl($driverImpl);
        $config->setQueryCacheImpl($cache);

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        // Proxy configuration
        $config->setProxyDir(APPPATH.'models/proxies');
        $config->setProxyNamespace('Proxies');

        // Set up logger
        $logger = new EchoSQLLogger;
        $config->setSQLLogger($logger);

        $config->setAutoGenerateProxyClasses( TRUE );

        // Database connection information
        $connectionOptions = array(
            'driver' => 'pdo_mysql',
            'user' => $db['default']['username'],
            'password' => $db['default']['password'],
            'host' => $db['default']['hostname'],
            'dbname' => $db['default']['database']
        );

        // Create EntityManager
        $this->em = EntityManager::create($connectionOptions, $config);
    }
}

```

Please note that this is a development configuration; for a production system you'll want to use a real caching system like APC, get rid of EchoSqlLogger, and turn off autoGenerateProxyClasses.

For more details, consult the [Doctrine 2 Configuration documentation \(http://www.doctrine-project.org/documentation/manual/2.0/en/configuration#configuration-options\)](http://www.doctrine-project.org/documentation/manual/2.0/en/configuration#configuration-options).

Now to use it

Whenever you need a reference to the entity manager inside one of your controllers, views, or models you can do this:

```

<?php
$em = $this->doctrine->em;

```

That's all there is to it. Once you get the reference to your EntityManager do your Doctrine 2.0 voodoo as normal.

Note: If you do not choose to autoload the Doctrine library, you will need to put this line before you get a reference to it:

```
<?php  
$this->load->library('doctrine');
```

Good luck!