

HeadCouch - the CouchDB PHP Client

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INTRODUCTION

As a LAMP developer I use [MySQL](#) database for my daily tasks. MySQL is a classic RDBMS that store structured data in tabular format. When my data aren't structured I need a different approach to store and retrieve it. That's one of the cases in which use of NoSQL database (key-value, graph, document store) I consider meaningful.

COUCHDB

[Apache CouchDB](#) is a database that uses JSON for documents, JavaScript for MapReduce indexes, and regular HTTP for its API.

HEADCOUCH

[HeadCouch](#) is an open source **CouchDB Client** for PHP 5.x that allow you to store your data, access your documents and query your indexes in OOP manner inside your PHP projects.

Let's see how to use the HeadCouch API:

- [HeadCouchServer](#)
- [HeadCouchDatabase](#)
- [HeadCouchDocument](#)

Access the CouchDB server with **HeadCouchServer**
`require_once 'HeadCouch.php';`

```
$transport = HeadCouchCurl::newInstance('127.0.0.1',
5984)
    ->setUsername('my_username')
    ->setPassword('my_password')
;

$server = HeadCouchServer::newInstance($transport);

// Accessing the root of a CouchDB instance
$result = $server->ping();

// Requests a Universally Unique Identifier from the
CouchDB instance
```

```
$result = $server->uuid();

// Returns a list of all the databases
$result = $server->allDbs();

// List of running tasks
$result = $server->activeTasks();

// Returns a list of all database events in the CouchDB
instance
$result = $server->dbUpdates();

// Gets the CouchDB log
$result = $server->log();

// Restarts the CouchDB instance
$result = $server->restart();

// Returns the statistics for the running server
$result = $server->stats();
```

Access and manage your databases with **HeadCouchDatabase**
require_once 'HeadCouch.php';

```
$transport = HeadCouchCurl::newInstance('127.0.0.1',
5984)
    ->setUsername('my_username')
    ->setPassword('my_password')
;

$dbdatabase = HeadCouchDatabase::newInstance($transport,
'db_name');

// Create database
$result = $database->create();

// Delete database
$result = $database->delete();

// Gets information about the specified database
```

```
$result = $database->get();

// Returns the HTTP Headers about the specified
database
$result = $database->head();

// Creates a new document in the specified database
$result = $database->post(array(
    'key1' => 'val1',
    'key2' => 'val2'
));
```

Access and manage your documents with **HeadCouchDocument**
require_once 'HeadCouch.php';

```
$transport = HeadCouchCurl::newInstance('127.0.0.1',
5984)
    ->setUsername('my_username')
    ->setPassword('my_password')
;

$document = HeadCouchDocument::newInstance($transport,
'db_name', 'doc_name');

// Creates a new document
$result = $document->create(array(
    'key1' => 'val1',
    'key2' => 'val2'
));

// Deletes the specified document from the database
$result = $document->delete();

// Returns document
$result = $document->get();

// Returns document's revision token
$result = $document->getRevision();

// Returns the HTTP Headers about the specified
```

document

```
$result = $document->head();
```

CONCLUSION

For more examples and complete API reference see [GitHub Repo](#).

Further updates are on their way, so keep listening on twitter

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SEE ALSO

- [Download Large Files with PHP](#)
- [How to prevent SQL injections in PHP](#)
- [Storing passwords securely](#)

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