HAIFA UNIVERSITY

Department of Computer Science

Quizzy
Installation Guide

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What is required to use the system?

T he "Quizzy" system we developed is built upon the CakePHP CMS. As such there are several requirements to enable it to properly function. Additionally, there are a few ways in which you can configure and execute it.

Being a web-based system the requirements are fairly basic and include:

- Web server software with PHP v5.3 or higher (v5.4 or higher recommended).

- Approximately 20MB of free space.

- SQL based database (MSSQL or MySQL).

- The downloaded sources from our project page.

Quizzy was developed and thoroughly tested on XAMPP[1] 1.8.0 (using PHP 5.4.4), running on Windows 7.

Please note that CakePHP uses Apache's mod_rewrite for URL rewriting purposes, if you do not have this module, are not using Apache, or you have any doubts relating to this matter, please review: http://book.cakephp.org/2.0/en/installation/url-rewriting.html thoroughly before proceeding.

Quizzy sources and all documentation can be found on the project page @ https://github.com/rsack/quizzy .

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[1] http://www.apachefriends.org/en/xampp.html

Chapter

2

Quizzy Installation options

At the time of development we based our system on CakePHP version 2.1 which was the "stable" production version at the time. Being built upon an existing framework enables Quizzy to be easily adapted to any future release of the framework. You can always run the whole package from our project page which includes the version of CakePHP on which we performed most of the development and testing work, or to apply the required changes and use a newer or different version.

Please note that we plan to release an additional bundle/version of Quizzy that will not use the word "patient" but instead refer to users as "users". For more information, please visit our project page.

Option I: Use the bundled version

- Download the "QuizzyFull" version from the project page.

- Extract it to a directory under your web server's document root (i.e. "htdocs" on Apache, WWWROOT on several other web servers).

- Create a database for Quizzy, preferably named "Quizzy" for convenience sake.

- Import the Quizzy.sql file which contains all the required data and table structure.

- Edit the app/Config/database.php to reflect your database's configuration and setup. In case you named the database anything other than "Quizzy" remember to update this parameter as well in the file.

- Make sure the app/webroot/uploads directory has writeable permissions (Linux web server only).

- Make sure the app/tmp/ directory has 777 permissions recursively (Linux web server only).

- For security reasons you may want to change the "salt" and "cipherSeed" values in the app/Config/core.php file. For more information please refer to the CakePHP "Getting Started" documentation available at http://book.cakephp.org/2.0/en/getting-started.html#optional-configuration . Please note that changing the values will impact password generation and thus we highly recommend not changing these values after you've started working with the system.

- Continue the steps detailed in "Chapter 3 - Common setup and installation tasks".

    [YouTube video link: http://youtu.be/r-shr7oYNHw]

Option II: setup on a different version of CakePHP

In addition to the source files provided on the project page you will require a few additional components:

- jQuery (included in our release, but you can replace the version if you wish to do so).

Instructions for setup:

- Download the "QuizzyNoCake" version from the project page.

- Download your preferred version of CakePHP from their site.

- Extract CakePHP to a directory under your web server's document root (i.e. "htdocs" on Apache, WWWROOT on several other web servers).

- You can now either extract/copy the downloaded directory (or archive) to your Cake installation folder (please be careful replacing existing files as their structure and contents might have changed since our development version of Cake).

- Or you may manually copy the required files from our project:

    o Copy all required models (from the app/Models folder)

    o Copy all required controllers (from the app/Models folder)

    o Copy all required views, layouts and helpers (from the app/Views folder)

    o Copy all required webroot files (from the app/webroot folder).

    o Copy all required locale (language) files (from the app/Locale folder).

- Create an uploads directory under app/webroot with 2 sub-directories named "question" and "patient".

- Update the webroot/.htaccess file with the rule from the included file to allow access to uploads sub-directories (adding the "`RewriteRule ^uploads/.* - [L]`" rule).

- Follow the configuration from "Option I", from (and including) the database step onwards.

Common setup and installation tasks

At this point we assume you have a working CakePHP installation with the Quizzy files in it. In this section several common daily tasks will be described and detailed. The term siteAddress will be used to refer to your Quizzy URL (i.e. http://myhost.com/Quizzy).

Memory limit

We recommend enlarging and increasing the default PHP memory limit, PHP usually ships with 128MB defined, we suggest increasing it to 256MB or higher (remember you might have large amounts of data, you might wish to debug things and very often there may be more than one site hosted on a single web server). For more information regarding PHP's memory limit please refer to the PHP.net official documentation: http://www.php.net/manual/en/ini.core.php#ini.memory-limit .

Testing installation

To test the installation, simply point your favorite browser to: siteAddress/, you should now be presented with the "Initial configuration check for Quizzy running on CakePHP 2.3.1" page.

Changing the administrator account's password

As mentioned previously Quizzy's database ships with an administrator account named "admin", with a password set "123456". If you wish to change it, and we do recommend doing so, you can change the password using the initial configuration check page from the previous section ("Testing installation).

Removing the default configuration testing home page

For convenience purposes we have added a bit of functionality to the default home page displayed at the root directory of your installation. This page is basically Cake's configuration testing page plus the addition of the aforementioned administrator password changing functionality.

This page should be removed both for security purposes and to enable full functionality. You can do so by:

- Opening the .\app\Config\routes.php and:

  - If you are using our full distribution (including CakePHP and Quizzy), simply go down to the section "Quizzy: change this to the login", and replace the line:

    ```
    Router::connect('/', array('controller' => 'pages', 'action'
    => 'display', 'home'));
    ```
    with the commented out one:
    ```
    Router::connect('/', array('controller' => 'users', 'action'
    => 'login'));
    ```

  - If you are using your own installation/version of CakePHP with our added Quizzy files you will simply need to replace the line:
    ```
    Router::connect('/', array('controller' => 'pages', 'action'
    => 'display', 'home'));
    ```
    With:
    ```
    Router::connect('/', array('controller' => 'users', 'action'
    => 'login'));
    ```

- We additionally recommend removing the code relating to the administrator password from the home.ctp file (.\app\View\Pages\home.ctp), the section is clearly marked by:
  ```
  // Quizzy - The change admin password
  ```

Turn off Cake's debug configuration

The next installation step would be to disable Cake's debugging. You can do so by changing the value of the "debug" variable to 0 (.\app\Config\core.php), the line should read:
```
Configure::write('debug', 0);
```

Important notice regarding "salt" configuration variables

Cake hashes password using the "Security.salt" configuration variable (defined in .\app\Config\core.php), please remember that if you change the value of this variable, all previous password will be **<u>rendered completely unusable</u>**! As this is the way Cake works we strongly advise against changing the value after initial setup. Naturally the provided administrator account password will **<u>NOT WORK</u>** if you change the value and so, if you wish to change the salt value you should do so upon initial installation. Then, using the initial configuration page mentioned above you can modify the administrator password accordingly.

You should now be able to access your Quizzy installation using the siteAddress URL.

Enjoy! ☺