

1. PROJECT DESCRIPTION

The project consists of REST api server and simple client, that consumes the api data.

Files and folders structure:

The api related logic is located inside the /application/controllers/api/ folder where each file represents a resource which gets requested by the client application.

The client application is a simple codeigniter view that gets loaded by the Welcome.php class, located inside the /application/controllers/ folder.

1.1 The API

The api works entirely based on json file format. A request to resource should contain json data (only where needed) and each response from the server is json encoded.

Here are the api endpoints that can be used by a client app and short description of each one is provided:

- Authenticate:

url: <http://waitasecond.quadersoft.cf/api/authentication/login>

request type: POST

JSON example: {'data': {'username': "admin", "password": "1234"}}

NOTE: In order to add a product, you first have to be authenticated by making a request to the url above (username: admin; password: 1234).

For the sake of simplicity the username and the password are hardcoded, but in a real world application the authentication should be done by passing an access token back and forth between the server and the client.

- Add Product:

url: <http://waitasecond.quadersoft.cf/api/product>

request type: POST

example JSON: {'data': {'title': "Product 20", "price": "17.5", "description": "Lorem ipsum."}}

- Get Product Details:

url: <http://waitasecond.quadersoft.cf/api/product/id>

request type: GET

where id is the id of the product for example:

<http://waitasecond.quadersoft.cf/api/product/15>

- Get Products (paginated)

url: <http://waitasecond.quadersoft.cf/api/product?page=1>

request type: GET

where page value is the number of the page

- Get questions:

url: <http://waitasecond.quadersoft.cf/api/question/id/page>

where id is the id of the product and page is the number of the page

- Get answers:

url: <http://waitasecond.quadersoft.cf/api/answer/id>

where id is the id of the question

- Add question:

url: <http://waitasecond.quadersoft.cf/api/question>

JSON example: {'data': {'product_id': '6', 'question': 'What is the condition of the item?'}}

- Add answer

url: <http://waitasecond.quadersoft.cf/api/answer>

JSON example: {'data': {'question_id': '4', 'answer': 'The item is brand new.'}}

- Logout:

url: <http://waitasecond.quadersoft.cf/api/authentication/logout>

1.2 The client app

The client app demonstrates the entire api functionality and it represents a single html page that makes AJAX calls to the api endpoints.

Please note that in order to be able to add a product you should authenticate by clicking the login button from the navigation menu. The username is admin and the password is 1234.

When you add a comment or an answer to any of the products, your user role is determined by your status. If you are logged in you are a vendor and if you are logged out you are a client.

2. APPLICATION DEPLOYMENT

There should be no further configuration in order to deploy the codeigniter project.

To use a database, you have to create one and name it “waitasecond”. After that you can import the waitasecond.sql file, which contains already populated tables with example data.

If you are using xampp or any other local server environment you have to make sure that you have completed the steps in this tutorial:

<https://github.com/bcit-ci/CodeIgniter/wiki/Removing-index.php-from-a-URL-path-in-XAMPP-for-Windows>

Regardless of what environment you are using (local server or remote server), you should change the \$config['base_url'] variable inside the config.php file, which is located inside the /application/config/ folder to your server domain (<http://example.com/> or to “localhost” in case of local server).

If you have any difficulties with the deployment, you can use the already deployed version here: waitasecond.quadersoft.cf