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PHP Simple REST Framework :

This document describes structure and functionality of the Framework Classes.

This framework can be used to create "JSON Api web service»

Structure of the REST requests :

`http://server.com/api/users/getlist?fget=1` -

1 `http://server.com` - domain of the service

2 `/api/` - subDirectory where framework files are located

3 `/users/` - Name of the Class .

4 `/getlist` - get method name in the class

5 `fget` - some get variables

Structure of the Framework :



1 Commands - This Directory contains all Classes required for your service .

Each classes should be named exactly as the name of the method for
example `Users.php`

Will be accessible with the followed request
`http:// server.com/api/Users/name_of_the_method` inside Users class that
returns Response object.

Each Class should be extended From Abstract method Class.

2 Helpers - This folder contains static Helpers classes that you can use in your commands or models

3 media - contains all media uploaded file

4 tmp - contains temporary files

5 models - Contains all models Classes extended from base Abstract Model .

. Methods Overview:

Commands Abstract Methods :

`requireToken()`; - This method need to be called inside methods that requires secure token
`$_GET["token"]` ; see Quick start section :

`allowCache()`; -- this method should be called inside methods that allowing cache output result in memcache
;

`disableCache()`; -- disable cache for current method ;

`setError($msg)`; -- Creates Error Json response with error string ;

`Execute(\Request $req = null)`; -- Default method will be executed on each Commands Class ;

`hasResponse()`; -- returns true or false if current Command has Reponse.

Model Abstract Methods:

```
public function setTable($table) Set Name of the Table For model ;
```

```
public function delete($id) -- Remove record By id in current table ;
```

```
public function setSql($sql) -- Set Raw SQL;
```

```
public function exec() -- Execute Raw SQL ;
```

```
public function selectAll()-- Select all from raw SQL request ;
```

```
public function load() -- Load Single Object Record from sql raw request ;
```

```
public function loadList() -- Load list of object from raw Request ;
```

```
public function selectByAll($field, $v) -- Select record set Where field = v ;
```

```
public function generalInsert($data = []) -- insert Key – value into the table .
```

```
public function updateBypost($post = []) -- Update record “If dataset contains id key”
```

```
public function createToken($data_users = []) -- Create Secure Token with Custom Data returns hash string ;
```

```
public function getFromToken($name , $var) -- Get data from token by hash and var name ;
```

Request Method

```
public function contains($name) -- return true or false if request contains variable
```

```
public function get($name) -- get request get or post variable ;
```

Response Object methods

`public function __construct($status = true, $error = false, $error_m = "")` – default constructor ;

`public function add($key, $val=null)` -- add key value into data response array ;

Observer Methods:

```
public function UploadFile($path = "", $prefix = "" ) -- upload single File
```

and returns the name of the file

\$path – default upload path FROM BASE_DIR ;

\$prefix prefix name of the file ;

```
public function UploadFiles($path = "", $prefix = "" ) -- Upload Multiply Files and return array of file names ;
```

```
public function createThumbnail($filename, $prefix = '_small' ) – Create image Thumbnail
```

```
public function sendFile($filename = 'file.csv', $data = "") -- Send file to the end user with headers ;
```

```
public function auto_link($str) -- Auto link string ;
```

```
public function saveHTML($str) – strip some html tags ;
```

```
public function compress ($buffer) -- compress string;
```

Quick Start :

1 Grab your copy From GitHub . it requires php 5.4 or later ;

2 Place it on your web server for example in /api/directory ;

3 Edit .htaccess Change RewriteBase

4 Open And Edit config.php

Edit Database Settings :

HOST mysql server

USER mysql username

PASS mysql password

DATABASE name of database

DEVELOP - true - false ; display or not errors

START_PATH - Integer value for Parsing url if your service is in subdirectory the start path will be start from 3 else if root directory you should change it to 2

SITE_NAME - Name of the service will be display in each response

VERSION - string will be output in Json Response

FORMAT - "JSON" / "XML" Format of the output ;

SMTP_HOST SMTP_USER SMTP_PASS NOTIFY_EMAIL - SMTP settings For Mail Helper

5 Test it / open url in your browser <http://your.com/api> will be output default response with Timestamp

CREATE SIMPLE "HELLO WORLD"

When after that we finished configuration, let's create simple hello World Service.

Lets start with creating a simple table in our database.

Create Table "Users" with fields : id, username , email ;

In models directory create file Users.php in that file create Class Users extended from _Abstract

You should get something like :

```
<?php
namespace models;

class Users extends _Abstract{

}
```

and create constructor :

```
    public function __construct(){
        parent::__construct() ;
        $this->setTable("Users") ; // set Table For that
model ;

    }
```

Ok we have created model For Users model, time Create our Actions

Lets create action that will have methods for register new user, login, and get users list;

In /Api/commands / create class

Users file name Users.php

```

<?php
namespace commands;

class Users extends _Abstract{

    public function hasResponse(){
        return true ;
    }
}

```

```

}

```

// ok let's create Business logic ;

in our model Users add method That will insert new user

```

public function insertUser($username , $email){
    $id = $this->generalInsert([
        "username"=>$username,
        "email"=>$email ,
    ]);
    return $id ;
}

```

in commands/Users create method that will encapsulate login register :

```

    public function register(\Request $req = null ){
        if ($req->contains("username") && $req->contains("email")){
            $model = new Users() ;

            // Create user and add id in response
            $this->responseObject->add("user_id",
                $model->insertUser( $req->get("username") ,
                    $req->get("email"))));

```

```

    } else{
        $this->setError("username ,email required") ;
    }
    return $this->responseObject ;
}

```

// Great now we can create new users in our table :

like this

<http://server.com/api/users/register?username=some&email=some>

now it's time to create login method

in Command/users create method login

```

public function login(\Request $req = null){
    $model = new Users() ;
    $username = $req->get("username") ;

    if ($username){
        // try to find out user
        $id = $model->login($username);
        if ($id) {
            $this->responseObject->add("user_id", $id) ;
            $this->responseObject->add("token", $model-
>createToken()) ;

            }else{
                $this->setError("User Not Found") ;
            }

        }else{
            $this->setError("Please enter username") ;
        }

    return $this->responseObject ;
}

```

ok for login we just need to call

<http://server.com/users/login?username=some>

note this is the test , so there is no password etc.

anyway , on success it will return :

user_id , token ;

token we will gonna need that in our last method called “get users List” :

Lets Create method in our controller that will return list of users for logged users ;

```
public function getlist(\Request $req = null){  
    $model = new Users();  
    $this->requireToken() ; // Token Required For that method ;  
    $all = $model->selectAll();  
    $this->responseObject->add("all", $all) ;  
    return $this->responseObject;  
}
```

This method should be called :

<http://server.com/api/users/getlist?token=.....> . token string

See full example in repository:

