

## Producer:

Work in wordpress's plugin, the functions are:

- 1 connect to the database
- 2 Do the data synchronization function when some function is work base on hook.
- 3 Do the config on the MQ, then connect it.
- 4 Do json\_encode to the data
- 5 send data to the MQ

## Connect MYSQL

```
function mysql_init() {  
    $con = mysql_connect(DB_HOST, DB_USER, DB_PASSWORD);  
    if (!$con) {  
        die('Could not connect: ' . mysql_error());  
    }  
    mysql_select_db(DB_NAME, $con);  
}
```

DB\_HOST, DB\_USER, DB\_PASSWORD, DB\_NAME are global variables wordpress, can use directly.

## hook:

according to the requerment we add actions as below:

```
add_action('profile_update', after_update_userprofile);
```

```
add_action('user_register', after_update_register);
```

```
add_action('wp_insert_comment', after_insert_comment);
```

```
add_action('wp_insert_post', after_insert_post);
```

```
add_action('save_post', after_save_post);
```

```
add_action('delete_post', after_del_post);
```

```
add_action('wp_trash_post', after_trash_post);
```

```
add_action('untrash_post', after_publish_post);
```

```

add_action('delete_user', after_del_user);

add_action('trash_comment', after_trash_com);

add_action('untrash_comment', after_untrash_com);

add_action('delete_comment', after_del_com);

add_action('add_user_meta', after_user_meta);

add_action('add_post_meta', after_post_meta);

add_action('update_post_meta', after_update_post_meta);

add_action('add_comment_meta', after_comment_meta);

```

When wordpress's function work, producer's can work automatically.

## **MQ config:**

MQ's config file's content as below:

```

$conn_args = array(
    'host' => '127.0.0.1',
    'port' => '5672',
    'login' => 'guest',
    'password' => 'guest',
    'vhost' => '/'
);
$_name = 'chyttest';
$_route = 'key_1';

```

Host is MQ's server's ip

Port is MQ's server's port

Login & password is default user name & password

Vhost is file's location

E\_name is exchange's name

k\_route is route's name

## **data format:**

```

$sync = array(
    'type' => 'update',
    'table' => 'wp_users',

```

```
'data' => $row  
);  
$sync is data for synchronization(array)  
Type is type tp control the database, such as insert, update  
Table is which table the data will be insert/update in the database  
Data is data.  
The the whole data($sync) will be json_encode then send to MQ  
$ex->publish($message, $k_route)
```

# Consumer:

Consumer.php must run in a server with rebbitMQ's service,when someinformation send into the MQ, consumer will get these information and send it to the queue and do decode, then create the sql according to the data.

Questions need to notice:

## 1 database's config:

```
$con = mysql_connect("localhost", "root", "epals");
if (!$con) {
    die('Could not connect: ' . mysql_error());
}
try{
    mysql_select_db("wordpress", $con);
}catch(Exception $e)
{
    echo 'databases select failed!';
}
```

Localhost is mysql server's ip

Root is username

Epals is password

Wordpresst is database name

## 2MQ config

```
$conn_args = array(
    'host' => '127.0.0.1',
    'port' => '5672',
    'login' => 'guest',
    'password' => 'guest',
    'vhost' => '/'
);
```

```
$e_name = 'chyttest';
```

```
$q_name = 'q_linvo';
```

```
$k_route = 'key_1';
```

Same as the config in producer, besides add the queue's name.