

PHP wrapper to RestFul/JSON web services

Now you can develop your IoT web application with PHP

This page is dedicated to the Labeeb IoT Platform PHP wrapper to RestFul/JSON web services.

If you are a PHP developer and you are developing a PHP web application based on Labeeb IoT platform, you can find a full documentation in this page.

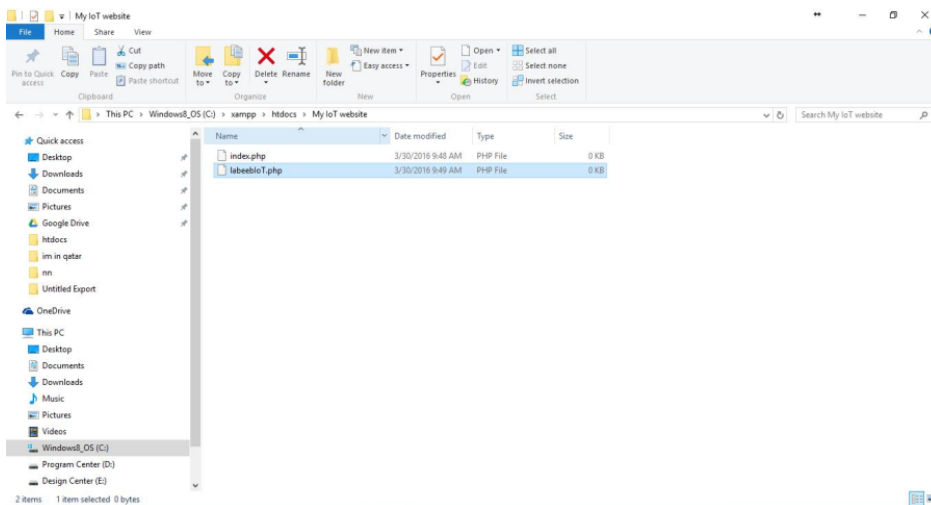
The PHP wrapper class contains functions to call most frequently used RestFul/JSON web services. anyway, you can find a complete list of [RestFul/JSON web services](#).

1. Purpose

- Retrieves a human-readable description of the service using PHP to communicate with Labeeb IoT web services. This also verifies that the service exists, without interacting with the resources that it provides.

2. Preparation

- Find in the attachments a file named (labeebIoT.php) that contains all functions needed to communicate with Labeeb IoT platform.
- First, download (labeebIoT.rar), and copy it to php folder:



- Inside your php page, include (labeebIoT.php) using **require statement** :

Include labeebIoT.php class

```
<?php
require "labeebIoT.php";
$labeebWS = new LabeebIoT; // Create new object
?>
```

- Then you can use php functions to call Labeeb IoT web services through (labeebWS) object. .

3. PHP functions to interface with Labeeb IoT Web Services:

3.1. User Services:

3.1.1. Authenticate :

Function call :	<code>authenticate(Enterprise:String,userName:string,password:String,IP:String);</code>
Params	<ul style="list-style-type: none"> • Enterprise:String : Labeeb IoT platform Enterprise name. required - userName:String : Labeeb IoT platform user name. required - paaword:String : Labeeb IoT platform password. Required - IP:String : User IP optional
Return value	<ul style="list-style-type: none"> • String : "success" authenticated successfully • String : "error"+ [Http header with error message] : authentication fail
Sample call	<code>\$labeebWS ->authenticate('company','user_1','123@123');</code>
Success Response Sample	" success"
Error Response sample	<ul style="list-style-type: none"> • "error header :HTTP/1.1 500 Internal Server Error"

3.1.2. Logout :

Function call :	<code>logout();</code>
Params	
Return value	<ul style="list-style-type: none"> • String : "success" logout successfully • String : "error"+ [Http header with error message] : logout fail - String : "error : not logged in" user not logged in
Sample call	<code>\$labeebWS ->logout();</code>
Success Response Sample	" success"
Error Response sample	<ul style="list-style-type: none"> • "error header :HTTP/1.1 500 Internal Server Error" • "error : not logged in"

3.2. Data Services

3.2.1. Get Dashboard Data :

Function call :	<code>getDashBoardData(Filters:Array)</code>
Params	<ul style="list-style-type: none"> • Filters:Array : Dash Board Data filter options optional <pre> array ("startDate"=> "dd-mm-yyyy hh:mm:ss.SSS", "endDate" => "dd-mm-yyyy hh:mm:ss.SSS",, "type" => array("Type", "Type", "Type")); </pre> <p>Type:list:</p> <ul style="list-style-type: none"> • ALL • DEVICE_STATUS_COUNT • DEVICE_STATUS_ALERTS_COUNT • DEVICE_STATUS_LOCATION • USERS_COUNT • DEVICES_COUNT • DATA_RECORDS_COUNT

Return value	<ul style="list-style-type: none"> JSON object : getDashBoardData successfully String : "error"+ [Http header with error message] : getDashBoardData fail <ul style="list-style-type: none"> String : "error : not logged in" user not logged in
Sample call	<pre> \$options_array = array("startDate"=> "01-01-2016 00:00:00.000", "endDate" => "10-03-2016 00:00:00.000", "type" => array("DEVICE_STATUS_COUNT", "DEVICE_STATUS_ALERTS_COUNT", "DATA_RECORDS_COUNT")); \$labeebWS -->getDashBoardData(\$options_array); </pre>
Success Response Sample	<pre> Array ([devicesCount] => [storedDataRecordsCount] => 0 [filteredDataRecords] => 0 [behaviorAlertCount] => Array ([availabilitycount] => Array ([deviceOfflineCount] => 2 [deviceOnlineCount] => 0 [unknownCount] => 0) [statusCount] => Array ([blacklistedCount] => 0 [malfunctioningCount] => 0 [unknownCount] => 2 [workingCount] => 0) [totalAlerts] => 0 [unseenAlerts] => 0)) </pre>
Error Response sample	<ul style="list-style-type: none"> "error header :HTTP/1.1 500 Internal Server Error" "error : not logged in"

3.2.2. Get Activity Logs

Function call :	getActivityLogs (startDate:String, endDate:String,sourceModuleEnum:String,severityEnum:String)
Params	<ul style="list-style-type: none"> startDate:String : format : "yyy-mmdd"."T"."hhmmss+hh:mm" Required endDate:String : format : "yyy-mmdd"."T"."hhmmss+hh:mm" Required sourceModuleEnum:String : must be "MDD" Required severityEnum:String Required severityEnum could be : EMERGENCY ALERT CRITICAL ERROR WARNING NOTICE INFORMATIONAL DEBUG

Return value	<ul style="list-style-type: none"> JSON object : getActivityLogs successfully String : "error"+ [Http header with error message] : getActivityLogs fail <ul style="list-style-type: none"> String : "error : not logged in" user not logged in
Sample call	\$labeebWS -->getActivityLogs("2016-03-01T12:00:00+01:00", "2016-03-15T12:00:00+01:00", "MDD", "NOTICE");
Success Response Sample	<pre>[0] => Array ([alerts] => Array ([0] => Array ([alertDetail] => [alertId] => 31025 [alertMessage] => OLD Status : WORKING NEW status UNKNOWN [alertSeverity] => NOTICE [alertSourceType] => DEVICE_BEHAVIOR_MONITOR [alertTime] => 2016-03-02T16:57:32.776+03:00 [availability] => [dataModelId] => system [dataTypeId] => mem_used [deviceId] => device1 [deviceTemplateId] => linux [enterpriseId] => qmic_intern [seen] => [status] => UNKNOWN)))</pre>
Error Response sample	<p>"error header :HTTP/1.1 500 Internal Server Error"</p> <ul style="list-style-type: none"> " error : not logged in"

3.2.3. get Data

Function call :	getData (maxDataRecords:String, DataSearchCriteria:Array)
Params	<ul style="list-style-type: none"> maxDataRecords:String : max number of records to retrieve Required DataSearchCriteria:Array Required <pre>array(" dataModelName"=> "YOUR_DATA_NAME_MODEL" ,"dataTypeName" => " YOUR_DATA_TYPY_NAME" ,"deviceName" => "YOUR_DEVICE_NAME", "fromDate" => "yyyy-mm-ddThh:mm:ss+hh:mm", "operatorEnum" => "FROM_LIST_DOWN", "thresholdValue" => "YOUR_THRESHOLD_VALUE" "toDate" => "yyyy-mm-ddThh:mm:ss+hh:mm");</pre> <p>"operatorEnum" could be :</p> <p>CONTAINS EQUAL DIFFERENT GREATER_THAN GREATER_OR_EQUAL_TO LESS_OR_EQUAL_TO LESS_THAN</p>

Return value	<ul style="list-style-type: none"> • JSON object : getData successfully • String : "error"+ [Http header with error message] : getData fail <ul style="list-style-type: none"> - String : "error : not logged in" user not logged in
Sample call	<pre>\$DataSearchCriteria=array("dataModelName"=> "Battery", "dataTypeName" => "battery", "deviceName" => "Device_1", "fromDate" => "2015-12-14T12:00:00+03:00", "operatorEnum" => "GREATER_THAN", "thresholdValue" => "0", "toDate" => "2016-03-15T12:00:00+03:00"); \$labeebWS ->getData ("100",\$DataSearchCriteria);</pre>
Success Response Sample	<pre>Array ([0] => Array ([altitudeInMeters] => [booleanValue] => [dataModelId] => temp_data [dataSource] => GENERIC_MQTT_M_2_M_DEVICES [dataTime] => 2016-03-27T10:27:00+03:00 [dataTypeId] => temp_value [deviceId] => php_device [doubleValue] => 66 [latitude] => [longitude] => [receiveTime] => 2016-03-27T10:27:01.396+03:00 [storeTime] => 2016-03-27T10:27:01.403+03:00 [stringValue] =>))</pre>
Error Response sample	<pre>"error header :HTTP/1.1 500 Internal Server Error" • " error : not logged in"</pre>

3.3. Device Services

3.3.1. getDevices

Function call :	getDevices(deviceStatusEnum_list:Array,deviceAvailibilityEnum_list:Array,deviceName:String)
Params	<ul style="list-style-type: none"> • deviceStatusEnum_list:Array : optional* <ul style="list-style-type: none"> List : WORKING MALFUNCTIONING BLACKLISTED UNKNOWN • deviceAvailibilityEnum_list:Array optional* <ul style="list-style-type: none"> List : OFFLINE ONLINE UNKNOWN • deviceName:String optional*
Return value	<ul style="list-style-type: none"> • JSON object : getDevices successfully • String : "error"+ [Http header with error message] : getDevices fail <ul style="list-style-type: none"> - String : "error : not logged in" user not logged in
Sample call	<pre>\$deviceStatusEnum_data = array ("WORKING","BLACKLISTED"); \$deviceAvailibilityEnum_data= array ("OFFLINE","UNKNOWN"); \$labeebWS ->getDevices(\$deviceStatusEnum_data,\$deviceAvailibilityEnum_data, "temperature_device");</pre>

Success Response Sample	<pre> Array ([0] => Array ([deviceStatusEnum] => [deviceAvailabilityEnum] => OFFLINE [deviceHeartbeatProfile] => Array ([intelligenceAlgo] => PERIODIC [numberPackets] => 1 [timeMeasure] => SECOND [timePeriod] => 15) [deviceName] => php_device [deviceTemplateId] => temp_sensor [deviceTypeEnum] => SENSOR [latestLocation] => Array ([altitudeInMeters] => 0 [description] => [latitude] => 0 [locationName] => [longitude] => 0)) </pre>
Error Response sample	<pre> "error header :HTTP/1.1 500 Internal Server Error" </pre> <ul style="list-style-type: none"> " error : not logged in"

3.3.2. getLatestDeviceBehavior :

Function call :	getLatestDeviceBehavior (DeviceBehaviorRequest:Array)
Params	<ul style="list-style-type: none"> DeviceBehaviorRequest:Array : required * <pre> array("deviceIds"=> array("DEVICE_1","DEVICE_2"), "statusFilter"=> array("MALFUNCTIONING","WORKING"), "availabilityFilter"=> array("OFFLINE")); </pre>
Return value	<ul style="list-style-type: none"> JSON object : getLatestDeviceBehavior successfully String : "error"+ [Http header with error message] : getLatestDeviceBehavior fail <p>- String : "error : not logged in" user not logged in</p>
Sample call	<pre> \$DeviceBehaviorRequest = array("deviceIds"=> array("temp_1","temp_2"), "statusFilter"=> array("MALFUNCTIONING","WORKING"), "availabilityFilter"=> array("OFFLINE")); \$ labeebWS ->getLatestDeviceBehavior (\$DeviceBehaviorRequest); </pre>
Success Response Sample	<pre> Array ([0] => Array ([behaviors] =>)) </pre>
Error Response sample	<pre> "error header :HTTP/1.1 500 Internal Server Error" </pre> <ul style="list-style-type: none"> " error : not logged in"

3.3.3. getDeviceNames

Function call :	getDeviceNames()
Params	
Return value	<ul style="list-style-type: none"> • JSON object : getDeviceNames successfully • String : "error"+ [Http header with error message] : getDeviceNames fail <p>- String : "error : not logged in" user not logged in</p>
Sample call	\$ labeebWS -> getDeviceNames();
Success Response Sample	<pre>Array ([0] => city_center_temp_1 [1] => php_device)</pre>
Error Response sample	<p>"error header :HTTP/1.1 500 Internal Server Error"</p> <ul style="list-style-type: none"> • " error : not logged in"

3.3.4. getDataModelNames :

Function call :	getDataModelNames()
Params	
Return value	<ul style="list-style-type: none"> • JSON object : getDataModelNames successfully • String : "error"+ [Http header with error message] : getDataModelNames fail <p>- String : "error : not logged in" user not logged in</p>
Sample call	\$ labeebWS -> getDataModelNames();
Success Response Sample	<pre>Array ([0] => temp_data)</pre>
Error Response sample	<p>"error header :HTTP/1.1 500 Internal Server Error"</p> <ul style="list-style-type: none"> • " error : not logged in"

3.3.5. getDataTypeNames

Function call :	getDataTypeNames(dataModelNames:Array)
Params	dataModelNames:Array : List of data model names required
Return value	<ul style="list-style-type: none"> • JSON object : getDataModelNames successfully • String : "error"+ [Http header with error message] : getDataModelNames fail <p>- String : "error : not logged in" user not logged in</p>
Sample call	<pre>\$dataModelNames = array ("Magnetometer","Accelerometer"); \$ labeebWS -> getDataTypeNames(\$dataModelNames);</pre>
Success Response Sample	<pre>Array ([0] => temp_data) Array ([0] => temp_value)</pre>

Error Response sample

"error header :HTTP/1.1 500 Internal Server Error"

- " error : not logged in"