



# **TW Vision API Document**

**Ted Wang**

## Version History

Version	Date	Owner	Description
1.0	7.31.2023	Ted Wang	Initial Release.
1.1	8.4.2023	Ted Wang	Add Error Responses and Sample Codes.

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## 1. Introduction

TW Vision is a website built by Ted Wang, dedicated to providing a platform where users can learn technical translation and documentation by taking advantage of resources on the website.

This document introduces third-party users how to use the TW Vision cloud resources, including how to create a user, how to get terms, and how to post a comment on the website.

## 2. Terminology

Term	Description
API Key	Password to using the corresponding API.

## 3. Global

### 3.1 URL

TW Vision URL: <https://tedwangtw.cn/api/>

### 3.2 Protocol

SSL, Json

### 3.3 Security

API Key is required in the header of each request.

### 3.4 Headers

Parameter Name	Type	R	Max Length	Description
APIKEY	Str	R		API Key.

## 4. User Management

### 4.1 Create a User

This API is used to create a TW vision user.

#### 4.1.1 URL

HTTP POST

<https://tedwangtw.cn/api/createuser/createuser1.php>

#### 4.1.2 Request

Parameter Name	Type	R	Max Length	Description
URL	Str	R		Target API.
Data.username	str	R		Username of the new user account
Data.password	str	R		Password of the new user account

#### 4.1.3 Response

Parameter Name	Type	R	Max Length	Description
ResultCode	Str	R W	6	Result Code. 000000 or other error code.
Status	str	R		Error or Success
Message	str	R		Message of the response

#### 4.1.4 Example

##### *Request*

URL: `~/api/createuser/createuser.php`

Request body:

```
{
  "username": "测试",
  "email": "TEST@123.com",
  "password": "QA123"
}
```

##### *Success Response*

```
{
  "status": "success",
  "message": "You are registered successfully."
}
```

## *Error Responses*

### **Invalid Key**

This error is returned when the API key used for request authentication is invalid.

```
{
  "status": "error",
  "message": "Invalid API key. Please provide a valid API key in the request headers."
}
```

### **Missing Required Fields**

This error is returned when the required fields (username, email and password) are missing in the request body.

```
{
  "status": "error",
  "message": "Required fields are missing. Please provide username, email, and password."
}
```

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### 4.1.5 Code Sample

#### JavaScript

```
const data = JSON.stringify({
  username: 'test',
  password: '1234'
});

const xhr = new XMLHttpRequest();
xhr.withCredentials = true;

xhr.addEventListener('readystatechange', function () {
  if (this.readyState === this.DONE) {
    console.log(this.responseText);
  }
});

xhr.open('POST', 'https://tedwangtw.cn/api/createuser/createuser1.php');
xhr.setRequestHeader('APIKEY', 'YOUR API KEY');

xhr.send(data);
```

#### PHP

```
// <?php

$request = new HttpRequest();
$request->setUrl('https://tedwangtw.cn/api/createuser/createuser1.php');
$request->setMethod(HTTP_METH_POST);

$request->setHeaders([
  'content-type' => 'application/json',
  'APIKey' => 'Your API Key'
]);

$request->setContentType('application/json');
$request->setBody(json_encode([
  'username' => 'test',
  'password' => '1234'
]));

try {
  $response = $request->send();
```



```
echo $response->getBody();  
} catch (HttpException $ex) {  
    echo $ex;  
}
```

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## 4.2 Log in with a User Account

This API is used to log in to the TW Vision with a user account.

### 4.2.1 URL

HTTP POST

<https://www.tedwangtw.cn/api/createuser/userlogin.php>

### 4.2.2 Request

Parameter Name	Type	R	Max Length	Description
URL	Str	R		Target API.
Data.username	str	R		Username of the user account
Data.password	str	R		Password of the user account

### 4.2.3 Response

Parameter Name	Type	R	Max Length	Description
ResultCode	Str	R	6	Result Code. 000000 or other error code.
Status	str	R		Error or Success
Message	str	R		Message of the response

### 4.2.4 Example

#### Request

URL: `~/api/createuser/createuser.php`

Request body:

```
{
  "username": "测试 1",
  "password": "QA123"
}
```

#### Success Response

```
{
  "status": "success",
  "message": "Log in successfully."
}
```

#### Error Responses

##### Invalid Key

This error is returned when the API key used for request authentication is invalid.

```
{
  "status": "error",
  "message": "Invalid API key. Please provide a valid API key in the request headers."
}
```

### **Missing Required Fields**

This error is returned when the required fields (username, email and password) are missing in the request body.

```
{
  "status": "error",
  "message": "Required fields are missing. Please provide username and password."
}
```

### **Wrong Username or Password**

This error is returned when the username or password is incorrect.

```
{
  "status": "error",
  "message": "Wrong Username or password."
}
```

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## 4.2.5 Code Sample

### JavaScript

```
const data = JSON.stringify({
  username: '测试1',
  password: 'QA123'
});

const xhr = new XMLHttpRequest();
xhr.withCredentials = true;

xhr.addEventListener('readystatechange', function () {
  if (this.readyState === this.DONE) {
    console.log(this.responseText);
  }
});

xhr.open('POST', 'https://www.tedwangtw.cn/api/createuser/userlogin.php');
xhr.setRequestHeader('APIKEY', 'YOUR API KEY');

xhr.send(data);
```

### PHP

```
// <?php

$request = new HttpRequest();
$request->setUrl('https://www.tedwangtw.cn/api/createuser/userlogin.php');
$request->setMethod(HTTP_METH_POST);

$request->setHeaders([
  'content-type' => 'application/json',
  'APIKey' => 'Your API Key'
]);

$request->setContentType('application/json');
$request->setBody(json_encode([
  'username': '测试1',
  'password': 'QA123'
]));

try {
  $response = $request->send();
```

```
echo $response->getBody();  
} catch (HttpException $ex) {  
    echo $ex;  
}
```

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## 5. Term Management

### 5.1 Get a Term

This API is used to get a term from tw vision termbase.

#### 5.1.1 URL

HTTP POST

<https://tedwangtw.cn/api/fetchterminology/getaterm.php>

#### 5.1.2 Request

Parameter Name	Type	R	Max Length	Description
URL	Str	R		Target API.
search	str	R		Term that you want to get
sel_a	str	R		The category that the term belongs to. Enter IT or Math or AI or Finance.

#### 5.1.3 Response

Parameter Name	Type	R	Max Length	Description
ResultCode	Str	R	6	Result Code. 000000 or other error code.
Status	str	R		Error or Success
Message	str	R		Message of the response

#### 5.1.4 Example

##### *Request*

URL: `~/api/fetchterminology/getaterm.php`

Request body:

```
{
  "search": "企业应用",
  "sel_a": "IT"
}
```

##### *Success Response*

```
{
  "status": "success",
  "message": "Results found",
}
```

```

"data": [
  {
    "CH": "企业应用",
    "EN": "company app",
    "Definition-EN": "",
    "Definition-CH": ""
  },
  {
    "CH": "云企业应用程序",
    "EN": "Cloud Business App",
    "Definition-EN": "",
    "Definition-CH": ""
  },
  {
    "CH": "Office 企业应用程序",
    "EN": "Office Business App",
    "Definition-EN": "",
    "Definition-CH": ""
  },
  {
    "CH": "企业应用程序",
    "EN": "enterprise application",
    "Definition-EN": "",
    "Definition-CH": ""
  },
  {
    "CH": "企业应用集成",
    "EN": "EAI",
    "Definition-EN": "",
    "Definition-CH": ""
  },
  {
    "CH": "企业应用程序集成",
    "EN": "enterprise application integration",
    "Definition-EN": "",
    "Definition-CH": ""
  },
  {
    "CH": "企业应用集成",
    "EN": "EAI",
    "Definition-EN": "",
    "Definition-CH": ""
  }
]

```

```
    "CH": "企业应用程序集成",
    "EN": "enterprise application integration",
    "Definition-EN": "",
    "Definition-CH": ""
  }
]
}
```

### *Error Responses*

#### **Invalid Key**

This error is returned when the API key used for request authentication is invalid.

```
{
  "status": "error",
  "message": "Invalid API key. Please provide a valid API key in the request headers."
}
```

#### **Invalid Category**

This error is returned when the category entered is invalid.

```
{
  "status": "error",
  "message": "Invalid category selected."
}
```

#### **No Search Query**

This error is returned when the term entered is null.

```
{
  "status": "error",
  "message": "Please enter a search query."
}
```



### 5.1.5 Code Sample

#### JavaScript

```
const data = JSON.stringify({
  "search": "企业应用",
  "sel_a": "IT"
});

const xhr = new XMLHttpRequest();
xhr.withCredentials = true;

xhr.addEventListener('readystatechange', function () {
  if (this.readyState === this.DONE) {
    console.log(this.responseText);
  }
});

xhr.open('POST', 'https://tedwangtw.cn/api/fetchterminology/getaterm.php');
xhr.setRequestHeader('APIKEY', 'YOUR API KEY');

xhr.send(data);
```

#### PHP

```
// <?php

$request = new HttpRequest();
$request->setUrl('https://www.tedwangtw.cn/api/createuser/userlogin.php');
$request->setMethod(HTTP_METH_POST);

$request->setHeaders([
  'content-type' => 'application/json',
  'APIKey' => 'Your API Key'
]);

$request->setContentType('application/json');
$request->setBody(json_encode([
  "search": "企业应用",
  "sel_a": "IT"
]));

try {
  $response = $request->send();

  echo $response->getBody();
```

```
} catch (HttpException $ex) {  
    echo $ex;  
}
```

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## 6. Comment Management

### 6.1 Post a Comment

This API is used to post a comment on the TW Vision website.

#### 6.1.1 URL

HTTP POST

<https://tedwangtw.cn/api/postacomment/postacomment1.php>

#### 6.1.2 Request

Parameter Name	Type	R	Max Length	Description
URL	Str	R		Target API.
name	str	R		Name of the user that post this comment.
email	str	R		Email address of the user that post this comment.
message	str	R		Message content of the comment.

#### 6.1.3 Response

Parameter Name	Type	R	Max Length	Description
ResultCode	Str	R	6	Result Code. 000000 or other error code.
Status	str	R		Error or Success
Message	str	R		Message of the response

#### 6.1.4 Example

##### *Request*

URL: `~/api/postacomment/postacomment1.php`

Request body:

```
{
  "name": "测试 1",
  "email": "test@test.com",
  "message": "测试 api"
}
```

##### *Success Response*

```
comment uploaded successfully
```

## *Error Responses*

### **Invalid Key**

This error is returned when the API key used for request authentication is invalid.

```
{
  "status": "error",
  "message": "Invalid API key. Please provide a valid API key in the request headers."
}
```

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## 6.1.5 Code Sample

### JavaScript

```
const data = JSON.stringify({
  "name": "测试 1",
  "email": " test@test.com",
  "message": "测试 api"
});

const xhr = new XMLHttpRequest();
xhr.withCredentials = true;

xhr.addEventListener('readystatechange', function () {
  if (this.readyState === this.DONE) {
    console.log(this.responseText);
  }
});

xhr.open('POST', 'https://tedwangtw.cn/api/postacomment/postacomment1.php');
xhr.setRequestHeader('APIKEY', 'YOUR API KEY');

xhr.send(data);
```

### PHP

```
// <?php

$request = new HttpRequest();
$request->setUrl('https://tedwangtw.cn/api/postacomment/postacomment1.php ');
$request->setMethod(HTTP_METH_POST);

$request->setHeaders([
  'content-type' => 'application/json',
  'APIKey' => 'Your API Key'
]);

$request->setContentType('application/json');
$request->setBody(json_encode([
  "name": "测试 1",
  "email": " test@test.com",
  "message": "测试 api"
]));

try {
  $response = $request->send();
```

```
echo $response->getBody();  
} catch (HttpException $ex) {  
    echo $ex;  
}
```

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## 7. Document Management

### 7.1 Download a Book

This API is used to download a book from TW Vision website resources

#### 7.1.1 URL

HTTP GET

<https://www.tedwangtw.cn/api/downloadabook/downloadabook.php>

#### 7.1.2 Request

Parameter Name	Type	R	Max Length	Description
URL	Str	R		Target API.
Search	Str	R		Title or category of the book for searching.

#### 7.1.3 Response

Parameter Name	Type	R	Max Length	Description
ResultCode	Str	R	6	Result Code. 000000 or other error code.
Status	str	R		Error or Success.
Message	str	R		Message content of the response.
category	str	R		Category of the book.
title	str	R		Title of the book.
link	str	R		Download url of the book.

#### 7.1.4 Example

##### *Request*

URL: `~/ api/downloadabook/downloadabook.php`

Request body:

```
{
  "search": "Technical Writing for Dummies"
}
```

##### *Success Response*

```
{
  "status": "success",
  "message": "Books found.",
  "data": [
    {
```

```
    "id": "2",
    "category": "intro",
    "image": "picture/Technical Writing for Dummies.jpg",
    "title": "Technical Writing for Dummies",
    "link": "Read This Book"
  }
]
```

### *Error Responses*

#### **Invalid Key**

This error is returned when the API key used for request authentication is invalid.

```
{
  "status": "error",
  "message": "Invalid API key. Please provide a valid API key in the request headers."
}
```

#### **No Matching**

This error is returned when the TW Vision term base does not have the book matching the search.

```
{
  "status": "error",
  "message": "No books found matching the search term."
}
```



## 7.1.5 Code Sample

### JavaScript

```
const data = JSON.stringify({
  "search": "Technical Writing for Dummies"
});

const xhr = new XMLHttpRequest();
xhr.withCredentials = true;

xhr.addEventListener('readystatechange', function () {
  if (this.readyState === this.DONE) {
    console.log(this.responseText);
  }
});

xhr.open('GET', 'https://www.tedwangtw.cn/api/downloadabook/downloadabook.php');
;
xhr.setRequestHeader('APIKEY', 'YOUR API KEY');

xhr.send(data);
```

### PHP

```
// <?php

$request = new HttpRequest();
$request->setUrl('https://www.tedwangtw.cn/api/downloadabook/downloadabook.php');
$request->setMethod(HTTP_METH_POST);

$request->setHeaders([
  'content-type' => 'application/json',
  'APIKey' => 'Your API Key'
]);

$request->setContentType('application/json');
$request->setBody(json_encode([
  "search": "Technical Writing for Dummies"
]));

try {
  $response = $request->send();

  echo $response->getBody();
```

```
} catch (HttpException $ex) {  
    echo $ex;  
}
```

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