# Academia Sinica OCR API Specification v0.3 — English Translation

This document provides a full English translation of the Academia Sinica Digital Culture Center OCR API specification (version 0.3). It includes details about the available API endpoints, request/response parameters, and expected behaviors.

## 1. Authentication API

A token is valid for 24 hours.

### Endpoint

* **URL:** https://ocr.ascdc.tw/web\_api/auth.php
* **Method:** POST

### Request Parameters

| Name | Type | Description |
| --- | --- | --- |
| account | String | Account username |
| password | String | Account password |

### Response Format (JSON)

| Field | Type | Description |
| --- | --- | --- |
| status | Number | 200: success; 101: fail to connect to the server; 102: wrong credentials; 108: unexpected error |
| message | String | Error/debug message (returned only on failure) |
| access\_token | String | JWT token used for authentication |

## 2. Create Book (Add Book to Your Collection)

### Endpoint

* **URL:** https://ocr.ascdc.tw/web\_api/create\_book.php
* **Method:** POST

### Request Parameters

| Name | Type | Description |
| --- | --- | --- |
| token | String | Authentication token |
| title | String | Title of the book |
| author | String | Author of the book |
| public | Number | 0 = private, 1 = public |
| orientation | Number | 0 = horizontal, 1 = vertical, 2 = auto-detect |

### Response Format (JSON)

| Field | Type | Description |
| --- | --- | --- |
| status | Number | 200 = success; 101: fail to connect to the server; 102: fail to add the new book; 108: unexpected error |
| bookid | Number | Book ID for future uploads |
| message | String | Optional debug message |

## 3. Upload Image for OCR

### Endpoint

* **URL:** https://ocr.ascdc.tw/web\_api/upload.php
* **Method:** POST

### Required Parameters

| Name | Type | Description |
| --- | --- | --- |
| token | String | Authentication token |
| page | File | File to upload (JPG, PNG, PDF, or ZIP) |
| bookid | Number | Book ID from the create\_book API |
| block\_order | String | Text direction: TBRL, TBLR, RLTB, LRTB (T:Top; B:Bottom; R:Right; L:Left) |

### Optional Parameters

| Name | Type | Description | |
| --- | --- | --- | --- |
| language | Number | 1 = Chinese (default), 5 = Old-style Japanese | |
| orientation | Number | 0 = horizontal, 1 = vertical, 2 = auto (default) | |
| correction | Number | -1 = none (default), 0~4 = history, Taoism, Buddhism, medicine, modern dictionary | |
| pages\_per\_img | Number | 1 = single page (default), 2 = double page | |
| remove\_margin | Number | -1 = none (default), 1 = black margin, 2 = white margin (margin is background) | |
| has\_mark | Boolean | | Whether the image contains punctuation (default: false) |
| has\_alphabet | Boolean | | Whether it includes horizontal English (effective only in horizontal mode) |
| remove\_anno | Boolean | | Whether to remove annotations (default: false) |
| is\_inverted | Boolean | | Whether the image has white text on black background |

### Response Format (JSON)

| Field | Type | Description |
| --- | --- | --- |
| status | Number | 200 = success; 101: fail to connect to the server; 102: fail to upload the image; 108: unexpected error |
| queue\_id | Number | Queue ID used to check OCR progress |
| message | String | Optional error/debug message |

## 4. Check OCR Progress

### Endpoint

* **URL:** https://ocr.ascdc.tw/web\_api/queue.php
* **Method:** POST

### Required Parameters

| Name | Type | Description |
| --- | --- | --- |
| queue\_id | Number | Queue ID from the upload step |
| token | String | Authorization: Bearer token |

### Response Format (JSON Array)

| Field | Type | Description |
| --- | --- | --- |
| status | Number | 103 = processing; 200 = finished; 102 = no such queue; 108 = unexpected error |
| guids | Array | List of GUIDs for processed pages |

## 5. Get OCR Result by GUID

### Endpoint

* **URL:** https://ocr.ascdc.tw/web\_api/query.php
* **Method:** POST

### Parameters

| Name | Type | Description |
| --- | --- | --- |
| guid | Number | Unique page ID |
| token | String | Authorization: Bearer token |

### Response Format (JSON)

Returns detailed OCR results including each character’s position and recognition confidence.

| Field | Type | Description |
| --- | --- | --- |
| status | Number | 200 = success; 101: fail to connect to the server; 102: no such GUID; 108: unexpected error |
| result | Object[] | Contains multiple blocks, lines, characters; see OCR Results Translation |

## 6. Get Processed Image

### Endpoint

* **URL:** https://ocr.ascdc.tw/web\_api/get\_image.php
* **Method:** POST

### Parameters

| Name | Type | Description |
| --- | --- | --- |
| guid | Number | Unique page ID from OCR process |
| token | String | Authorization: Bearer token |

### Response

* Returns the processed image (JPEG format)
* Content-Type: image/jpeg