

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 |

| Name | Type | Description |
|-------------|--------|---|
| 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) |

| Name | Type | Description |
|--------------------|---------|--|
| has_mark | Boolean | Whether the image contains punctuation (default: false) |
| has_alphabetic | Boolean | Whether it includes horizontal English (effective only in horizontal mode) |
| remove_annotations | 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
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