



IT-314 : Software Engineering

API Testing

Group : 12

CHAT APPLICATION

API Endpoint

https://api.cloudinary.com/v1_1/daayhy7z8/image/upload

Objectives

To verify the functionality, reliability, and performance of the Cloudinary image upload API endpoint.

1. Successful Image Upload (TC_API_001)

Objective: Verify that the API successfully uploads an image and returns the expected response.

Steps:

1. Prepare a valid image file
2. Set up the request with correct parameters:
 - Method: POST
 - Content-Type: multipart/form-data
 - Body:
 - file: [image file]
 - upload_preset: g12-chat-app
 - cloud_name: daayhy7z8
3. Send the request to the API endpoint
4. Verify the response

Expected Result:

- Status Code: 200 OK
- Response body contains:
 - asset_id
 - public_id
 - version
 - version_id
 - signature
 - width
 - height
 - format
 - resource_type
 - created_at
 - tags

- bytes
- type
- etag
- placeholder
- url
- secure_url
- asset_folder
- display_name
- access_mode
- original_filename

Actual Result:

SpringTalk / cloudinary

POST https://api.cloudinary.com/v1_1/daayhy7z8/image/upload?Content-Type=multipart/form-data Send

Params • Authorization Headers (7) **Body** • Scripts Settings Cookies

☐ none ☒ form-data ☐ x-www-form-urlencoded ☐ raw ☐ binary ☐ GraphQL

Key	Value	Description
<input checked="" type="checkbox"/> file	File <input type="text" value="image.jpg"/>	
<input checked="" type="checkbox"/> upload_preset	Text <input type="text" value="g12-chat-app"/>	
<input checked="" type="checkbox"/> cloud_name	Text <input type="text" value="daayhy7z8"/>	

Body Cookies Headers (13) Test Results 200 OK • 1812 ms • 1.12 KB • Save Response

Pretty Raw Preview Visualize JSON ⌵

```

1 {
2   "asset_id": "5dd2c82be66ad9e1783269bbe6fd6619",
3   "public_id": "d2jsiq5r85r10byoo9ni",
4   "version": 1733156567,
5   "version_id": "afe3578b83413ad2418c1f68f3664227",
6   "signature": "3785f941ca3e94988f66c3e4c3a070765519a94e",
7   "width": 963,
8   "height": 1280,
9   "format": "jpg",
10  "resource_type": "image",
  
```

Pass/Fail: Pass

2. Invalid File Type Upload (TC_API_002)

Objective: Verify that the API correctly handles attempts to upload invalid file types.

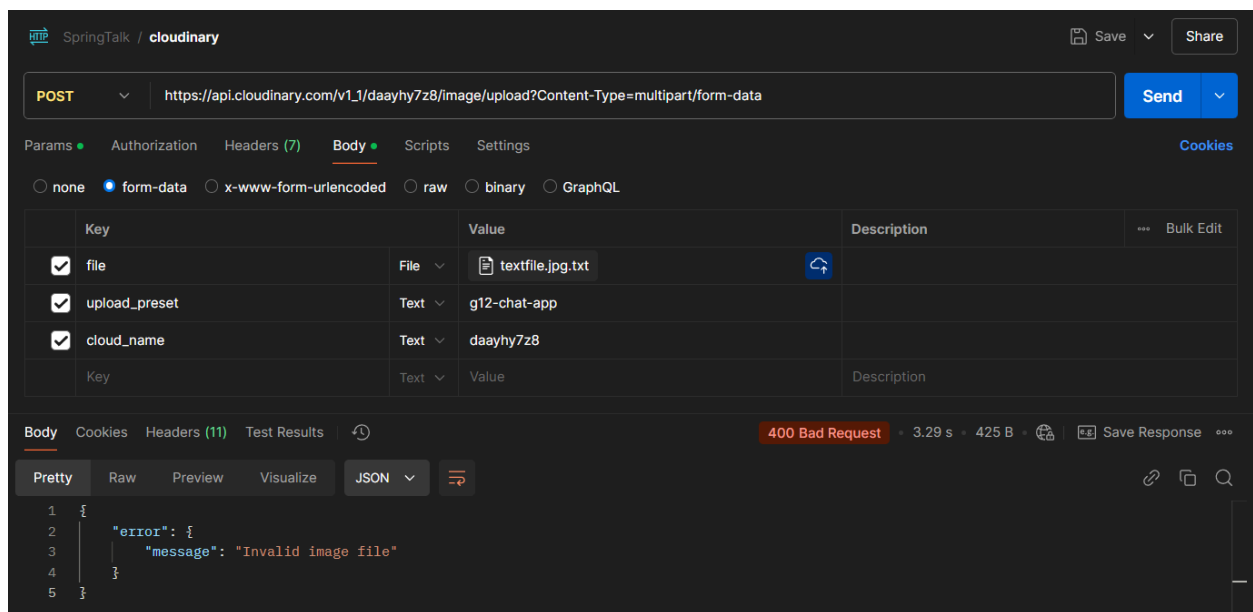
Steps:

1. Prepare an invalid file (e.g., a text file with .jpg extension)
2. Set up the request with the same parameters as TC_API_001
3. Send the request to the API endpoint
4. Verify the response

Expected Result:

- Status Code: 400 Bad Request
- Response body contains an error message indicating invalid file type

Actual Result:



Pass/Fail: Pass

3. Missing Required Parameters (TC_API_003)

Objective: Verify that the API correctly handles requests with missing required parameters.

Steps:

1. Prepare a valid image file
2. Set up the request, intentionally omitting the 'upload_preset' parameter
3. Send the request to the API endpoint
4. Verify the response

Expected Result:

- Status Code: 400 Bad Request
- Response body contains an error message indicating missing required parameter

Actual Result:

The screenshot shows the SpringTalk API client interface. The request is a POST to `https://api.cloudinary.com/v1_1/daayhy7z8/image/upload?Content-Type=multipart/form-data`. The request body is configured as form-data with the following parameters:

Key	Value	Description
<input checked="" type="checkbox"/> file	Image.jpg	
<input type="checkbox"/> upload_preset	g12-chat-app	
<input checked="" type="checkbox"/> cloud_name	daayhy7z8	

The response status is **400 Bad Request** (1677 ms, 505 B). The response body is shown in JSON format:

```
1 {
2   "error": {
3     "message": "Upload preset must be specified when using unsigned upload"
4   }
5 }
```

Pass/Fail: Pass

4. Large File Upload (TC_API_004)

Objective: Verify that the API can handle large file uploads within Cloudinary's size limits.

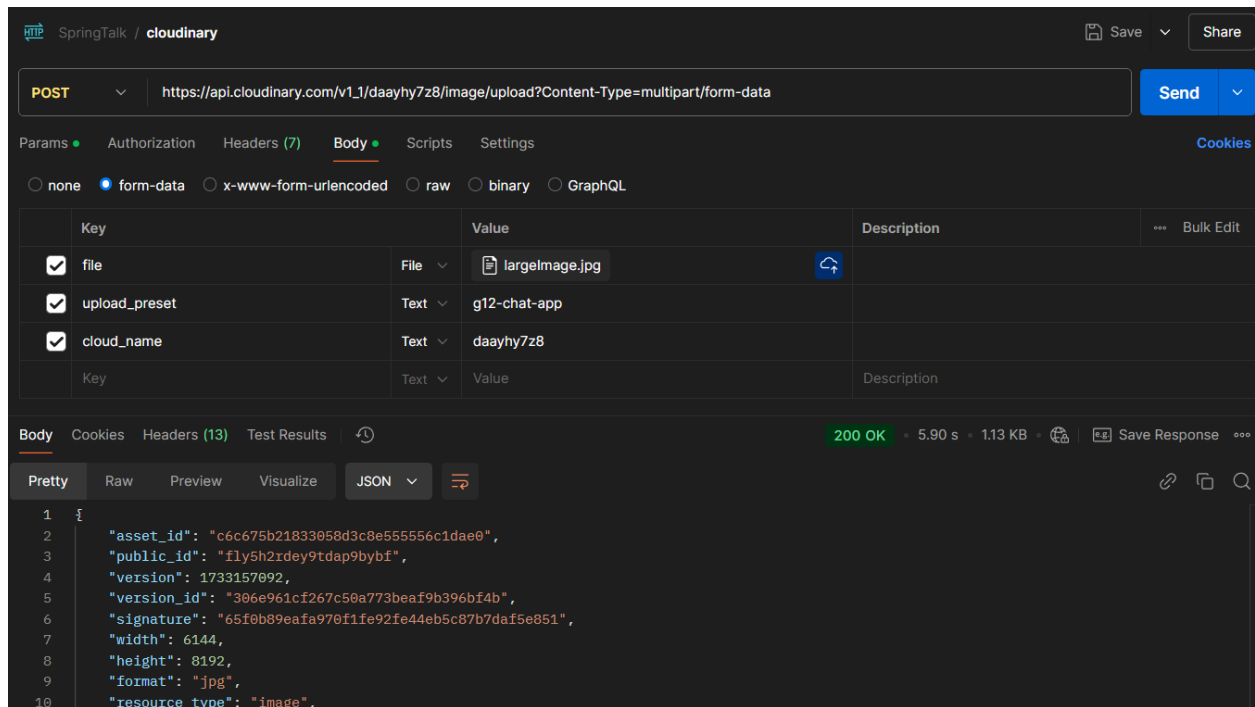
Steps:

1. Prepare a large image file (e.g., 10MB)
2. Set up the request with correct parameters
3. Send the request to the API endpoint
4. Verify the response and measure the upload time

Expected Result:

- Status Code: 200 OK
- Response similar to TC_API_001
- Upload time within acceptable limits (e.g., < 30 seconds)

Actual Result:



Pass/Fail: Pass

5. Invalid Authentication (TC_API_005)

Objective: Verify that the API correctly handles requests with invalid authentication.

Steps:

1. Prepare a valid image file
2. Set up the request with correct parameters, but use an invalid API key or secret
3. Send the request to the API endpoint
4. Verify the response

Expected Result:

- Status Code: 401 Unauthorized
- Response body contains an error message indicating authentication failure



Actual Result:

SpringTalk / **cloudinary** Save Share

POST ▼ https://apl.cloudinary.com/v1_1/daayhy7z88/image/upload?Content-Type=multipart/form-data Send ▼

Params ● Authorization Headers (7) **Body** ● Scripts Settings Cookies

☐ none ☒ form-data ☐ x-www-form-urlencoded ☐ raw ☐ binary ☐ GraphQL

	Key		Value	Description	...	Bulk Edit
<input checked="" type="checkbox"/>	file	File ▼	 2 files 			
<input checked="" type="checkbox"/>	upload_preset	Text ▼	g12-chat-app			
<input checked="" type="checkbox"/>	cloud_name	Text ▼	daayhy7z8			
	Key	Text ▼	Value	Description		

Body Cookies Headers (11) Test Results 🔄 401 Unauthorized 1614 ms 422 B 📄 Save Response ...

Pretty Raw Preview Visualize JSON ▼ 🔗 📄 🔍

```
1 {
2   "error": {
3     "message": "Unknown API key "
4   }
5 }
```

Pass/Fail: Pass