Moves-GAE Documentation

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CHAPTER 1

Images

List of Endpoints

- `/upload/image`: Handled by *image_upload()*.
- `/upload/image/overlay`: Handled by *image_upload_with_overlay()*.

API Reference

`images.`**`image_upload`**`()`
Endpoint for just image upload.

Expects form data fields “post_id”, “ext” and “content-type” which are used to save the output name. Expects image to be uploaded as multipart/file-upload and accessible under the name “image”.

Returns

- 204 - No content.
- 400 - Missing data field.
- 5XX - Request too large.

`images.`**`image_upload_with_overlay`**`()`
Endpoint for image + overlay upload. Has an additional form data field “overlay” that is required.

Returns

- 204 - No content.
- 400 - Missing data field.
- 5XX - Request too large.

`images.`**`setup_routing`**`(`*app: flask.app.Flask*`)`
Basic routing function for flask.

Parameters **app** (*flask.Flask*) – Your flask application object.

CHAPTER 2

Videos

List of Endpoints

- `/upload/video`: Handled by *video_upload()*.
- `/upload/video/overlay`: Handled by *video_upload_with_overlay()*.

API Reference

videos.**setup_routing**(*app: flask.app.Flask*)
Basic routing function for flask.

Parameters **app** (*flask.Flask*) – Your flask application object.

videos.**video_upload**()
This requires "post_id", "ext" and "content-type" as form data keys along with "video" file key (also form data technically).

Returns

- 204 - No content.
- 400 - Missing data field.
- 5XX - Request too large.

videos.**video_upload_with_overlay**()
Video upload with an overlay image. This endpoint will schedule transcoding of the video (e.g. it won't happen in this request call).

Requires an extra "overlay" form data field that must be a PNG.

Returns

- 204 - No content.
- 400 - Missing data field.

- 5XX - Request too large.

CHAPTER 3

Storage

Utilities for interacting with Google Cloud Storage.

API Reference

storage.**generate_image_path**(*post_id: str*, *ext: str*) → pathlib.Path
Generates the full path to be passed to *upload_data()*.

Parameters

- **post_id** – Output filename, usually gathered from an upload request.
- **ext** – Output extension, usually gathered from an upload request.

Returns Full path to be passed to *upload_data()*.

storage.**generate_transcoding_path**() → pathlib.Path
Generates a directory path that can be used for publishing transcode events.

Returns

storage.**generate_video_path**(*output_name: str*, *ext: str*) → pathlib.Path
Generates the full path to be passed to *upload_data()*.

Parameters

- **output_name** – Output filename, usually gathered from an upload request.
- **ext** – Output extension, usually gathered from an upload request.

Returns Full path to be passed to *upload_data()*.

storage.**get_image_url**(*filename: str*) → typing.Union[str, NoneType]
Gets an image's public url based on the filename without extension.

Parameters **filename** –

Returns Image's public URL.

storage.**get_public_url**(*filename: str*) → typing.Union[str, NoneType]
Get's a files public url based on the filename. Could be a video or image.

Parameters **filename** –

Returns Public URL

storage.**get_video_url**(*filename: str*) → typing.Union[str, NoneType]
Gets a video's public url based on the filename without extension.

Parameters **filename** –

Returns Video's public URL

storage.**upload_data**(*data: _io.BytesIO*, *content_type: str*, *full_path: pathlib.Path*) → str
Uploads binary data to the given path on Google Cloud Storage.

Parameters

- **data** – Binary data (for now just photos/videos).
- **content_type** – Correct content type for the data we're uploading.
- **full_path** – Full path including bucket.

Raises **ValueError** – If `full_path` begins with a leading slash.

Returns Public URL to access file.

CHAPTER 4

Download

List of Endpoints

- `/download/image`: Handled by *download_image()*.
- `/download/video`: Handled by *download_video()*.

API Reference

download.**download_image**()
This function expects a `post_id` URL parameter. Post ID corresponds to the filename w/o extension in Storage. This endpoint should redirect to the file's location in Storage.

Returns Redirects to the file's location in Storage.

download.**download_video**()
This function expects a `post_id` URL parameter. Post ID corresponds to the filename w/o extension in Storage. This endpoint should redirect to the file's location in Storage.

Returns Redirects to the file's location in Storage.

download.**setup_routing**(*app: flask.app.Flask*)
Basic routing function for flask.

Parameters **app** (*flask.Flask*) – Your flask application object.

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