# Documentation for routes/minio.py

This module contains the endpoints for the MiniO service. It provides endpoints for storing and retrieving objects from MiniO buckets.

# **Endpoints**

### Endpoint: /minio/download-song/

Downloads a song file from MinIO storage.

- query: SongPath The path to the song file in MinIO storage.
- user: User The authenticated user making the request.
- return: StreamingResponse A streaming response for downloading the song file.

#### Source code in routes/minio.py:

# Endpoint: /minio/stream-song/

Streams a song file from MinIO storage.

- query: SongPath The path to the song file in MinIO storage.
- user: User The authenticated user making the request.
- return: StreamingResponse A streaming response of the song file.

#### Source code in routes/minio.py:

```
@router.post("/stream-song/", tags=["MinIO"])
async def get_file(query: SongPath, user=Depends(login_manager)):
    try:
```

```
data = minio_client.get_object(DEFAULT_SETTINGS.minio_bucket_name, query.fil
    return StreamingResponse(data.stream(32*1024), media_type="audio/mpeg")
except Exception as e:
    raise HTTPException(status_code=404, detail="File not found")
```

### Endpoint: /minio/random-metadata

Retrieves metadata for a random song from MinIO storage using the music-tag library.

- user: User The authenticated user making the request.
- db: Session Database session dependency.
- return: JSONResponse The metadata of a random song.

#### Source code in routes/minio.py:

# Endpoint: /minio/metadata

Retrieves metadata for a specified song from MinIO storage using the music-tag library.

- query: SongPath The path to the song file in MinIO storage.
- **user**: User The authenticated user making the request.
- return: JSONResponse The metadata of the specified song.

### Source code in routes/minio.py:

```
@router.post("/metadata", tags=["MinIO"])
async def get_song_metadata(query: SongPath, user=Depends(login_manager)):
    try:
        metadata = get_metadata_and_artwork(DEFAULT_SETTINGS.minio_bucket_name, quer
        return JSONResponse(content=metadata)
    except Exception as e:
        raise HTTPException(status_code=400, detail=str(e))
```

### Endpoint: /minio/list-objects/

Retrieves a list of objects within a specified album folder in the MinIO bucket.

- query: AlbumResponse The album folder to list objects from.
- user: User The authenticated user making the request.
- return: List[S3Object] A list of objects found in the specified album folder.

### Source code in routes/minio.py:

```
@router.post("/list-objects/", response_model=List[S30bject], tags=["MinI0"])
def list_objects_in_album_folder(query: AlbumResponse, user=Depends(login_manager)):
    objects = minio_client.list_objects(
        DEFAULT_SETTINGS.minio_bucket_name,
        prefix=query.album_folder,
        recursive=True
    )
    response = []
    for obj in objects:
        s3_object = {
            "name": obj.object_name,
            "size": obj.size,
            "etag": obj.etag,
            "last_modified": obj.last_modified.isoformat()
        }
        response.append(s3_object)
    return response
```

# Endpoint: /minio/list-uploaded-objects

Lists objects uploaded by the authenticated user.

- **user**: User The authenticated user making the request.
- db: Session Database session dependency.
- return: UploadMP3ResponseList A list of uploaded objects by the user.

#### Source code in routes/minio.py:

```
@router.post("/list-uploaded-objects", response_model=UploadMP3ResponseList, tags=["
def list_uploaded_objects(user=Depends(login_manager), db: Session = Depends(get_db)
    objects = minio_client.list_objects(DEFAULT_SETTINGS.minio_temp_bucket_name)
    # Adjusting the response to match the expected structure
    uploads = [UploadDetail(filename=obj.object_name) for obj in objects]
    response = UploadMP3ResponseList(uploads=uploads)
    return response
```

### Endpoint: /minio/upload-temp

Uploads an MP3 file to MinIO storage using a temporary bucket.

- file: UploadFile The MP3 file to upload.
- user: User The authenticated user making the request.
- db: Session Database session dependency.
- return: UploadMP3ResponseList A list of uploaded MP3 files by the user.

#### Source code in routes/minio.py:

```
@router.post("/upload-temp", tags=["MinIO"], response_model=UploadMP3ResponseList)
async def upload_file(file: UploadFile = File(...), user=Depends(login_manager), db:
    try:
        # Check content type and extension
        if file.content_type != "audio/mpeg":
            raise HTTPException(status_code=400, detail="Only MP3 files are allowed.
        _, file_extension = os.path.splitext(file.filename)
        if file_extension.lower() != ".mp3":
            raise HTTPException(status_code=400, detail="The uploaded file is not ar
        # Generate a secure filename
        secure_filename = sanitize_filename(file.filename)
        # Determine the size of the uploaded file by moving the cursor to the end to
        file.file.seek(0, os.SEEK_END)
        file_size = file.file.tell()
        file.file.seek(0)
        # Stream the file directly to MinIO
        minio_client.put_object(
            bucket_name=DEFAULT_SETTINGS.minio_temp_bucket_name,
            object_name=secure_filename,
            data=file.file,
            length=file_size,
            content_type=file.content_type
        )
        # Store upload information in the database and return the updated list of up
        store_upload_info(db, user.id, secure_filename)
        uploaded_songs = get_user_uploads(db, user.id)
        return UploadMP3ResponseList(uploads=uploaded_songs)
    except Exception as e:
```

raise HTTPException(status\_code=400, detail=str(e))

## Endpoint: /minio/delete-temp

Deletes a MP3 file from MinIO bucket.

- query: SongPath The path to the MP3 file in MinIO storage.
- user: User The authenticated user making the request.
- db: Session Database session dependency.
- return: UploadMP3ResponseList A list of uploaded MP3 files by the user.

For more details, visit the documentation.