

**Base URL:** [https://rollers.mathcs.wilkes.edu/cs317/\(version\)](https://rollers.mathcs.wilkes.edu/cs317/(version))

## **Introduction:**

This API is used the contents of the sakila database.

## **MOVIE API CALLS**

### **GET (*version*)/movies/**

Retrieves all movies in the sakila\_film database without permissions

Parameters:

- lab6.php(lab6.phpVERSION) – First lab created without permissions
- lab7.php(lab7.phpVERSION) – Second lab created without permissions

Status Code:

- 200 OK – Action Succeeded, movies displayed

API Version:

- lab6.php – First lab created without permissions
- lab7.php – Second lab created without permissions

**Return.** This action returns a JSON array of movies.

### **GET (*version*)/movies/**

Retrieves all movies in the sakila\_film database with permissions

Parameters:

- lab8.php(lab8.phpVERSION) – Third lab created with permissions

Query Parameters:

- x\_a (string) – Required. The client id.
- x\_b (string) – Required. The client key.
- x\_c (string) – Required. The user id.
- x\_d (string) – Required. The user key.

Status Code:

- 200 OK – Action Succeeded, movies displayed
- 401 Unauthorized – Query parameters that are required were not provided correctly
- 403 Forbidden – No permission to see movies
- 403 Forbidden – No permission to see movies

Permission: Only Jon Stephens with a staff\_id of 2 can access the movies

API Version:

- lab8.php – Third lab created with permissions and query parameters

**Return.** This action returns a JSON array of movies.

### **GET (version)/movies/**

Retrieves movies in the sakila\_film database by pages of a cap limit of 200 with permissions

Parameters:

- lab9.php(lab9.phpVERSION) – Fourth lab created with permissions

Query Parameters:

- x\_a (string) – Required. The client id.
- x\_b (string) – Required. The client key.
- x\_c (string) – Required. The user id.
- x\_d (string) – Required. The user key.
- page (Positive integer) – Optional. Determines the page for the movies being displayed. Defaults to page 1 if not supplied.
- perpage (Positive integer) – Optional. Determines how many movies will be displayed on the page. Defaults to 200 if not supplied.

Status Code:

- 200 OK – Action Succeeded, movies displayed
- 401 Unauthorized – Query parameters that are required were not provided correctly
- 403 Forbidden – No permission to see movies
- 404 Bad Request – The page specified does not contain any movies

Permission: Only Jon Stephens with a staff\_id of 2 can access the movies

API Version:

- lab9.php – Fourth lab created with permissions and extra query parameters

**Return.** This action returns a JSON array of movies.

### **GET (version)/movies/(movie-id)**

Retrieves a singular movie from the sakila\_film database without permissions

Parameters:

- movie-id(lab6.phpVERSION) – The id issued to a movie

- movie-id(lab7.phpVERSION) – The id issued to a movie
- lab6.php(lab6.phpVERSION) – First lab created without permissions
- lab7.php(lab7.phpVERSION) – Second lab created without permissions

Status Code:

- 200 OK – Action Succeeded, movie displayed
- 400 Bad Request – movie-id provided was null
- 404 Not found – Movie does not exist with the provided the id

API Version:

- lab6.php – First lab created without permissions
- lab7.php – Second lab created without permissions

**Return.** This action returns a JSON array of a singular movie

### **GET (version)/movies/(movie-id)**

Retrieves a singular movie from the sakila\_film database with permissions

Parameters:

- movie-id(lab8.phpVERSION) – The id issued to a movie
- movie-id(lab9.phpVERSION) – The id issued to a movie
- lab8.php(lab8.phpVERSION) – Third lab created with permissions
- lab9.php(lab9.phpVERSION) – Fourth lab created with permissions

Query Parameters:

- x\_a (string) – Required. The client id.
- x\_b (string) – Required. The client key.
- x\_c (string) – Required. The user id.
- x\_d (string) – Required. The user key.

Status Code:

- 200 OK – Action Succeeded, movie displayed
- 400 Bad Request – Movie-id was null
- 401 Unauthorized – Query parameters that are required were not provided correctly
- 403 Forbidden – No permission to see any movies
- 404 Not found – Movie does not exist with the provided id

Permission: Only Jon Stephens with a staff\_id of 2 can access the movies

API Version:

- lab8.php – Third lab created with permissions
- lab9.php – Fourth lab created with permissions

**Return.** This action returns a JSON array of a singular movie

### **POST (*version*)/movies/**

Creates/adds a new movie to the sakila\_film database without permissions

Parameters:

- lab6.php(lab6.phpVERSION) – First lab created without permissions
- lab7.php(lab7.phpVERSION) – Second lab created without permissions

JSON Parameters:

- MovieInfo – Data for creating a new movie

Status Code:

- 201 OK – Action Succeeded, movie has been added to database
- 400 Bad Request – Not all parameters were provided
- 404 Not found – Movie was not uploaded to the database correctly

API Version:

- lab6.php – First lab created without permissions
- lab7.php – Second lab created without permissions

**Return.** This action returns a JSON array of the singular movie that was added

### **POST (*version*)/movies/**

Creates/adds a new movie to the sakila\_film database with permissions

Parameters:

- lab8.php(lab8.phpVERSION) – Third lab created with permissions
- lab9.php(lab9.phpVERSION) – Fourth lab created with permissions

Query Parameters:

- x\_a (string) – Required. The client id.
- x\_b (string) – Required. The client key.
- x\_c (string) – Required. The user id.
- x\_d (string) – Required. The user key.

JSON Parameters:

- MovieInfo – Data for creating a new movie

Status Code:

- 201 OK – Action Succeeded, movie has been added to database

- 400 Bad Request – Not all parameters were provided
- 401 Unauthorized – Query parameters that are required were not provided correctly
- 403 Forbidden – No permission to add any movies
- 404 Not found – Movie was not uploaded to the database correctly

Permission: Only Jon Stephens with a staff\_id of 2 can access the movies

API Version:

- lab8.php – Third lab created with permissions
- lab9.php – Fourth lab created with permissions

**Return.** This action returns a JSON array of the singular movie that was added

### **PUT (version)/movies/(movie-id)**

Updates a movie to the sakila\_film database through specified content with permissions

Parameters:

- movie-id(lab8.phpVERSION) – The id issued to a movie
- movie-id(lab9.phpVERSION) – The id issued to a movie
- lab8.php(lab8.phpVERSION) – Third lab created with permissions
- lab9.php(lab9.phpVERSION) – Fourth lab created with permissions

Query Parameters:

- x\_a (string) – Required. The client id.
- x\_b (string) – Required. The client key.
- x\_c (string) – Required. The user id.
- x\_d (string) – Required. The user key.

JSON Parameters:

- MovieInfo – Data for updating a new movie

Status Code:

- 201 OK – Action Succeeded, movie has been updated to database
- 204 No Content – Nothing was provided in the MovieInfo so nothing was updated
- 400 Bad Request – id was not provided
- 401 Unauthorized – Query parameters that are required were not provided correctly
- 403 Forbidden – No permission to add any movies

Permission: Only Jon Stephens with a staff\_id of 2 can access the movies

API Version:

- lab8.php – Third lab created with permissions
- lab9.php – Fourth lab created with permissions

**Return.** This action returns a JSON array of the singular movie that was updated.

### **PUT (*version*)/movies/(*movie-id*)**

Updates a movie to the sakila\_film database through specified content without permissions

Parameters:

- movie-id(lab6.phpVERSION) – The id issued to a movie
- movie-id(lab7.phpVERSION) – The id issued to a movie
- lab6.php(lab6.phpVERSION) – First lab created without permissions
- lab7.php(lab7.phpVERSION) – Second lab created without permissions

JSON Parameters:

- MovieInfo – Data for updating a new movie

Status Code:

- 201 OK – Action Succeeded, movie has been updated to database
- 204 No Content – Nothing was provided in the MovieInfo so nothing was updated
- 400 Bad Request – id was not provided

API Version:

- lab6.php – First lab created without permissions
- lab7.php – Second lab created without permissions

**Return.** This action returns a JSON array of the singular movie that was updated

### **DELETE (*version*)/movies/(*movie-id*)**

Removes a movie from the sakila\_film database without permissions

Parameters:

- movie-id(lab6.phpVERSION) – The id issued to a movie
- movie-id(lab7.phpVERSION) – The id issued to a movie
- lab6.php(lab6.phpVERSION) – First lab created without permissions
- lab7.php(lab7.phpVERSION) – Second lab created without permissions

Status Code:

- 204 No Content – Movie has been removed from the database
- 400 Bad Request – id was not provided
- 404 Not Found– id does not exist in the database

API Version:

- lab6.php – First lab created without permissions
- lab7.php – Second lab created without permissions

### **DELETE (*version*)/movies/(*movie-id*)**

Removes a movie from the sakila\_film database without permissions

Parameters:

- movie-id(lab8.phpVERSION) – The id issued to a movie
- movie-id(lab9.phpVERSION) – The id issued to a movie
- lab8.php(lab8.phpVERSION) – Third lab created with permissions
- lab9.php(lab9.phpVERSION) – Fourth lab created with permissions

Query Parameters:

- x\_a (string) – Required. The client id.
- x\_b (string) – Required. The client key.
- x\_c (string) – Required. The user id.
- x\_d (string) – Required. The user key.

Status Code:

- 204 No Content – Movie has been removed from the database
- 400 Bad Request – The id provided does not exist in the database
- 401 Unauthorized – Query parameters that are required were not provided correctly
- 403 Forbidden – No permission to add any movies
- 404 Not Found– id was not provided

Permission: Only Jon Stephens with a staff\_id of 2 can access the movies

API Version:

- lab8.php – Third lab created with permissions
- lab9.php – Fourth lab created with permissions

## **STAFF API CALLS**

### **GET (*version*)/staff/(*staff-id*)/image**

Retrieves the image for a specified staff employer from the sakila\_staff database

Parameters:

- staff-id(lab7.phpVERSION) – The id issued to an employee
- lab7.php(lab7.phpVERSION) – Second lab created without permissions

Status Code:

- 200 OK – Action Succeeded, movie displayed
- 400 Bad Request – staff-id provided was null

- 404 Not found – Employee does not exist with the provided the id

API Version:

- lab7.php – Second lab created without permissions

**Return.** This action returns a JSON encoded image

### **GET (*version*)/staff/(*staff-id*)/image**

Retrieves the image for a specified staff employer from the sakila\_staff database with permissions

Parameters:

- staff-id(lab8.phpVERSION) – The id issued to an employee
- staff-id(lab9.phpVERSION) – The id issued to an employee
- lab8.php(lab8.phpVERSION) – Third lab created with permissions
- lab9.php(lab9.phpVERSION) – Fourth lab created with permissions

Query Parameters:

- x\_a (string) – Required. The client id.
- x\_b (string) – Required. The client key.
- x\_c (string) – Required. The user id.
- x\_d (string) – Required. The user key.

Status Code:

- 200 OK – Action Succeeded, movie displayed
- 400 Bad Request – staff-id provided was null
- 401 Unauthorized – Query parameters that are required were not provided correctly
- 403 Forbidden – No permission to add any images to the staff database
- 404 Not found – employee does not exist with the provided the id

Permission: Only Mike Hillyer with a staff\_id of 1 can access the movies

API Version:

- lab8.php – Third lab created with permissions
- lab9.php – Fourth lab created with permissions

**Return.** This action returns a JSON encoded image

### **POST (*version*)/staff/(*staff-id*)/image**

Uploads a new image to the sakila\_staff for a specified employee



Parameters:

- staff-id(lab7.phpVERSION) – The id issued to an employee
- lab7.php(lab7.phpVERSION) – Second lab created without permissions

Status Code:

- 200 OK – Action Succeeded, movie displayed
- 400 Bad Request – staff-id provided was null, image was not declared, or there was an error uploading the image to the database
- 404 Not Found – id provided is not within the database

API Version:

- lab7.php – Second lab created without permissions

**Return.** This action returns a JSON encoded image

### **POST (version)/staff/(staff-id)/image**

Uploads a new image to the sakila\_staff for a specified employee

Parameters:

- staff-id(lab8.phpVERSION) – The id issued to an employee
- staff-id(lab9.phpVERSION) – The id issued to an employee
- lab8.php(lab8.phpVERSION) – Third lab created with permissions
- lab9.php(lab9.phpVERSION) – Fourth lab created with permissions

Query Parameters:

- x\_a (string) – Required. The client id.
- x\_b (string) – Required. The client key.
- x\_c (string) – Required. The user id.
- x\_d (string) – Required. The user key

Status Code:

- 200 OK – Action Succeeded, movie displayed
- 400 Bad Request – movie-id provided was null, image was not declared, or there was an error uploading the image to the database
- 401 Unauthorized – Query parameters that are required were not provided correctly
- 403 Forbidden – No permission to add any images to the staff database
- 404 Not Found – id provided is not within the database

Permission: Only Mike Hillyer with a staff\_id of 1 can access the movies

API Version:

- lab8.php – Third lab created with permissions
- lab9.php – Fourth lab created with permissions

**Return.** This action returns a JSON encoded image

### **DELETE (*version*)/staff/(*staff-id*)/image**

Sets an employees image to null

Parameters:

- staff-id(lab8.phpVERSION) – The id issued to an employee
- staff-id(lab9.phpVERSION) – The id issued to an employee
- lab8.php(lab8.phpVERSION) – Third lab created with permissions
- lab9.php(lab9.phpVERSION) – Fourth lab created with permissions

Query Parameters:

- x\_a (string) – Required. The client id.
- x\_b (string) – Required. The client key.
- x\_c (string) – Required. The user id.
- x\_d (string) – Required. The user key

Status Code:

- 204 No Content – image has been removed from the database
- 400 Bad Request – id was not provided
- 401 Unauthorized – Query parameters that are required were not provided correctly
- 403 Forbidden – No permission to add any images to the staff database
- 404 Not Found– id does not exist in the database

Permission: Only Mike Hillyer with a staff\_id of 1 can access the movies

API Version:

- lab8.php – Third lab created with permissions
- lab9.php – Fourth lab created with permissions

### **DELETE (*version*)/staff/(*staff-id*)/image**

Sets an employees image to null with permissions set

Parameters:

- staff-id(lab7.phpVERSION) – The id issued to an employee
- lab7.php(lab7.phpVERSION) – Second lab created without permissions

Status Code:

- 204 No Content – image has been removed from the database

- 400 Bad Request – id was not provided
- 404 Not Found– id does not exist in the database

API Version:

- lab7.php – Second lab created without permissions

## **ACTORS API CALLS**

### **GET (version)/actors/**

Retrieves actors in the sakila\_actor database by pages of a cap limit of 50 with permissions

Parameters:

- final(finalapi.phpVERSION) – Final lab created with permissions

Query Parameters:

- x\_a (string) – Required. The client id.
- x\_b (string) – Required. The client key.
- x\_c (string) – Required. The user id.
- x\_d (string) – Required. The user key.
- page (Positive integer) – Optional. Determines the page for the movies being displayed. Defaults to page 1 if not supplied.
- perpage (Positive integer) – Optional. Determines how many movies will be displayed on the page. Defaults to 50 if not supplied and maxes out at 50.

Status Code:

- 200 OK – Action Succeeded, actors displayed
- 401 Unauthorized – Query parameters that are required were not provided correctly
- 403 Forbidden – No permission to see actors
- 404 Bad Request – The page specified does not contain any actor

Permission: Only Michael Scott with a staff\_id of 3 and Andy Bernard with a staff\_id of 4 can access the actors

API Version:

- finalapi.php – Final lab created with permissions and extra query parameters

**Return.** This action returns a JSON array of actors.

### **GET (version)/actors/(actor\_id)**

Retrieves a single actor from the sakila\_actor database

Parameters:

- final(finalapi.phpVERSION) – Final lab created with permissions

Query Parameters:

- x\_a (string) – Required. The client id.
- x\_b (string) – Required. The client key.
- x\_c (string) – Required. The user id.
- x\_d (string) – Required. The user key.

Status Code:

- 200 OK – Action Succeeded, actors displayed
- 401 Unauthorized – Query parameters that are required were not provided correctly
- 403 Forbidden – No permission to see actors
- 404 Bad Request – The page specified does not contain any actor

Permission: Only Michael Scott with a staff\_id of 3 and Andy Bernard with a staff\_id of 4 can access the actors

API Version:

- finalapi.php – Final lab created with permissions and extra query parameters

**Return.** This action returns a JSON array of actors.

**GET (version)/actors/(actor\_id)/photo**

Retrieves a photo of a single actor from the sakila\_actor\_photo database

Parameters:

- final(finalapi.phpVERSION) – Final lab created with permissions

Query Parameters:

- x\_a (string) – Required. The client id.
- x\_b (string) – Required. The client key.
- x\_c (string) – Required. The user id.
- x\_d (string) – Required. The user key.

Status Code:

- 200 OK – Action Succeeded, actors displayed
- 401 Unauthorized – Query parameters that are required were not provided correctly
- 403 Forbidden – No permission to see actors
- 404 Bad Request – The page specified does not contain any actor

Permission: Only Michael Scott with a staff\_id of 3 and Andy Bernard with a staff\_id of 4 can access the actors

API Version:

- finalapi.php – Final lab created with permissions and extra query parameters

**Return.** This action returns a JSON array of actors.

### **POST (*version*)/actor/**

Creates/adds a new actor to the sakila\_actor database with permissions

Parameters:

- final (finalapi.phpVERSION) – Third lab created with permissions

Query Parameters:

- x\_a (string) – Required. The client id.
- x\_b (string) – Required. The client key.
- x\_c (string) – Required. The user id.
- x\_d (string) – Required. The user key.

JSON Parameters:

- ActorInfo – Data for creating a new movie

Status Code:

- 201 OK – Action Succeeded, actor has been added to database
- 400 Bad Request – Not all parameters were provided
- 401 Unauthorized – Query parameters that are required were not provided correctly
- 403 Forbidden – No permission to add any actor
- 404 Not found – Actor was not uploaded to the database correctly

Permission: Only Michael Scott with a staff\_id of 3 can post

API Version:

- finalapi.php – Final lab created with permissions

**Return.** This action returns a JSON array of the actor that was just uploaded

### **POST (*version*)/actors/(actor\_id)/photo**

Creates/adds a new photo to the sakila\_actor\_photo database with permissions

Parameters:

- final (finalapi.phpVERSION) – Third lab created with permissions

Query Parameters:

- x\_a (string) – Required. The client id.
- x\_b (string) – Required. The client key.
- x\_c (string) – Required. The user id.
- x\_d (string) – Required. The user key.

JSON Parameters:

- ActorInfo – Data for creating a new movie

Status Code:

- 201 OK – Action Succeeded, photo has been added to database
- 400 Bad Request – Not all parameters were provided
- 401 Unauthorized – Query parameters that are required were not provided correctly
- 403 Forbidden – No permission to add any actor\_photo
- 404 Not found – Photo was not uploaded to the database correctly due to no actor being found

Permission: Only Michael Scott with a staff\_id of 3 can post

API Version:

- finalapi.php – Final lab created with permissions

**Return.** This action returns an encoded version of an image

### **PUT (*version*)/actors/(*actor-id*)**

Updates an actor to the sakila\_actor database through specified content with permissions

Parameters:

- final(finalapi.phpVERSION) – Final lab created with permissions

Query Parameters:

- x\_a (string) – Required. The client id.
- x\_b (string) – Required. The client key.
- x\_c (string) – Required. The user id.
- x\_d (string) – Required. The user key.

JSON Parameters:

- ActorInfo – Data for updating a new actor

Status Code:

- 201 OK – Action Succeeded, actor has been updated to database
- 204 No Content – Nothing was provided in the ActorInfo so nothing was updated
- 400 Bad Request – id was not provided
- 401 Unauthorized – Query parameters that are required were not provided correctly
- 403 Forbidden – No permission to update any actors

- 404 Not Found – No actor was found to update

Permission: Only Michael Scott with a staff\_id of 3 can post

API Version:

- finalapi.php – Final lab created with permissions

**Return.** This action returns a JSON array of the singular actor that was updated.

### **DELETE (*version*)/actors/(actor-id)**

Removes an actor from the sakila\_actor database with permissions

Parameters:

- final(finalapi.phpVERSION) – Final lab created with permissions

Query Parameters:

- x\_a (string) – Required. The client id.
- x\_b (string) – Required. The client key.
- x\_c (string) – Required. The user id.
- x\_d (string) – Required. The user key.

Status Code:

- 204 No Content – Actor has been removed from the database
- 400 Bad Request – The id provided does not exist in the database
- 401 Unauthorized – Query parameters that are required were not provided correctly
- 403 Forbidden – No permission to add any movies
- 404 Not Found– id was not provided

Permission: Only Michael Scott with a staff\_id of 3 can post

API Version:

- finalapi.php – Final lab created with permissions

### **DELETE (*version*)/actors/(actor-id)/photo**

Removes an actor's photo from the sakila\_actor\_photo database with permissions

Parameters:

- final(finalapi.phpVERSION) – Final lab created with permissions

Query Parameters:

- x\_a (string) – Required. The client id.
- x\_b (string) – Required. The client key.
- x\_c (string) – Required. The user id.

- x\_d (string) – Required. The user key.

Status Code:

- 204 No Content – Actor has been removed from the database
- 400 Bad Request – The id provided does not exist in the database
- 401 Unauthorized – Query parameters that are required were not provided correctly
- 403 Forbidden – No permission to add any movies
- 404 Not Found– id was not provided

Permission: Only Michael Scott with a staff\_id of 3 can post

API Version:

- finalapi.php – Final lab created with permissions

## **JSON BLOCKS:**

### **MovieInfo**

```
{
  "title" : <string>,
  "description" : <string>,
  "release_year" : <number>,
  "language_id" : <number>,
  "rental_duration" : <number>,
  "rental_rate" : <number>,
  "length" : <number>,
  "replacement_cost" : <number>,
  "rating" : <number>
}
```

### **ActorInfo**

```
{
  "first_name" : <string>,
  "last_name" : <string>
}
```