**RELEASE NOTES**

Release Notes for Movie Database API

Team Two

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Product name: Movie Database API

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***Overview***

A movie database REST API to look up movies by title, academy awards, and getting recommendations based on past queries.

***Purpose***

Provide full CRUD API endpoints to end users so that they can look up for movies using title.

***Feature Summary***

* Look up movies by title, import them to the database if the movie doesn’t exist, and return movie data to user.
* Return all movies in the database
* Return data of movie with matching provided ID.
* Add movies to the database through POST method.
* Edit certain features of movies in the database through PUT method.
* Delete movie with matching provided ID via DELETE method.
* Look up Academy Awards Nominees by year
* Look up Academy Awards Best Picture Winner by year
* Look up Academy Awards Best Actor Winners by year
* Giving recommendations based on past queries.
* Simple GUI.

***Issue Summary***

* CSV file doesn’t load properly on some machines (fixed).
* Search endpoint bad behavior when no parameter is input (error handling).
* POST and PUT movie endpoints only accept JSON with key like (OMDb) (added new key format so the endpoints also accept key like what the endpoint returned).
* API endpoints is slow (fixed).

***Steps to Reproduce***

As all discovered bugs are fixed by now, there is no step to reproduce the bug.

If you found any bugs, please report to us through the contact information below. It’s better if steps to reproduce is also included in your report. It will help us to address the issues faster.

***End-User Impact***

No action is need for new installation. However, with the implementation of new recommendation function, there are several changes need to be made:

1. Create a new “queries” table with 2 column, id and genre with:
   1. id data type is INT with Auto Increment option check.
   2. genre data type is VARCHAR, length 255

***Installation***

1. Install Python (3.10.x or 3.11.x): <https://www.python.org/downloads/>’
2. Install Python Flask: https://flask.palletsprojects.com/en/2.2.x/installation/
3. Download and install MySQL 8:
   1. Can download directly from MySQL: <https://dev.mysql.com/downloads/mysql/>
      1. May refer to this doc: <https://github.com/sachal1/CSC131SoftWareProject/blob/main/docs/MySQL_Installation_Guide.pdf>
   2. Or install through XAMPP (full web server solution stack): <https://www.apachefriends.org/download.html>
4. Clone or download package from: <https://github.com/sachal1/CSC131SoftWareProject>
5. Open file config.py and update MySQL database information.
6. Install Python packages:
   1. pip install flask-mysql
   2. pip install -U flask-cors
   3. python3 -m pip install PyMySQL
   4. pip install json2html
7. Create 2 tables: movies and queries with columns like this:
   1. 10 columns for movies: id, title, year, directors, genre, actors, language, awards, poster, imdb\_id, imdb\_rating
      1. Beside id, year and imdb\_rating, all other columns data type is VARCHAR, length 255.
      2. id data type is INT with Auto Increment option check.
      3. year data type is YEAR
      4. imdb\_rating data type is DECIMAL, length 2,1
   2. 2 columns for queries: id, genre
      1. id data type is INT with Auto Increment option check.
      2. genre data type is VARCHAR, length 255
8. Run the Python main.py and start the MySQL
9. The URL for the API is <http://127.0.0.1:8080>

***REST API Endpoints***

Please take a look at our REST API Documentation.

***Disclaimers***

This app (the Movie Database API) is a project for CSC 131 with professor Kane. It is made by Team Two. As a project for a class and is used for school purposes only, we may not provide any support or release new updates in the future. The OMDb API in the source code belongs to Team Two, please get your own API key before using the app.

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