## **Flask Application Structure**

Flask Framework: Flask is a micro web framework for Python, used to develop web applications. It provides tools and features to handle web requests, responses, and templating.

This Flask application is structured to display and manage a list of items fetched from a JSON feed, specifically designed to handle "PornStar" data. The application consists of three main Python files that serve distinct purposes in the Flask framework setup: \_\_init\_\_.py, views.py, and downloader.py.

## \_\_init\_\_.py

Initializes the Flask application instance and configures it.

Registers blueprints, which are components that organize related views and other code.

The commented-out @app.errorhandler(404) section shows how to handle 404 Not Found errors with a custom page, but it's currently disabled (because there is not a 404 page)

## views.py

Defines the application's routes and view functions using a Blueprint named main. This includes two primary routes: one for displaying the index page with a paginated list of items and another for showing details of a specific item along with recommendations.

The index route (@main.route('/')) fetches the JSON feed, filters and sorts items based on their 'rank', and calculates pagination details. It then renders index.html with the paginated items.

The item detail route (@main.route('/item/<int:item\_id>')) fetches the JSON feed again to find a specific item by its ID. It also finds similar items based on the gender attribute for recommendations. It renders detail.html for the selected item and its recommendations.

Utilizes the fetch\_json\_feed function from downloader.py to retrieve and process the JSON data.

## downloader.py

Contains the fetch\_json\_feed function, which is responsible for making HTTP GET requests to fetch the JSON feed from a specified URL.

To handle exceptions, the app prints an error message and returns None if the fetch operation fails for any reason, such as network issues or invalid JSON format.

This setup illustrates a typical Flask application structure that separates concerns into different modules.