# **Film Catalog**

## A Film Database in Django

A Final Project for the Python Development Program

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# **General Project Presentation**



#### What is Film Catalog?

A complete and dynamic web application, designed to manage and display a collection of films. It offers a user interface to browse and search for films, supported by a secure and powerful backend for content management.



#### **Main Objective**

Create a user-friendly interface for browsing and searching films, supported by a secure and powerful backend for content management. Ensure a smooth and modern experience for users.



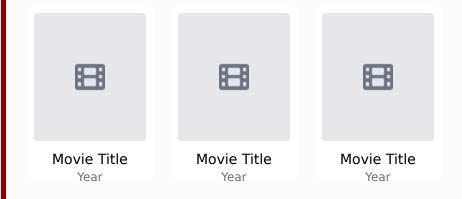
#### **Technology**

Built from scratch using the Django framework with Python. Django allows creating a robust and secure web application, with a relational database managed by the ORM (Object-Relationship Mapping).

## **Key Feature - Navigation and Filtering**

#### **⊞** Dynamic Movie Display

The main page automatically populates with all movies from the database, displayed in a clean and intuitive layout.



#### **▼** Genre Filtering System

Users can instantly sort the catalog by clicking on genre buttons, such as "Drama", "Action" or "Sci-Fi".



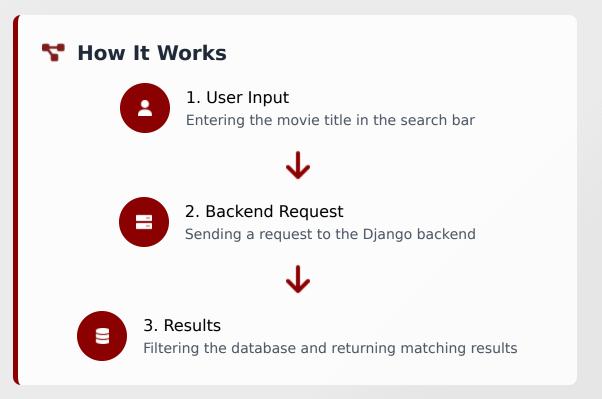
This feature offers a smooth and fast discovery experience, without page reloading.

# **Key Feature - Powerful Search**

Q Search for movies...

#### **Q** Instant Search

- A prominent search bar at the top of the page allows users to search for specific titles across the entire database.
- The search function sends a query to the Django backend which filters the database.
- Only matching results are returned, making the search fast and efficient.



## **Admin Panel - Secure Content Management**



#### **Secure Authentication**

Robust login and logout system for administrators. Content management controls are completely hidden from ordinary visitors.



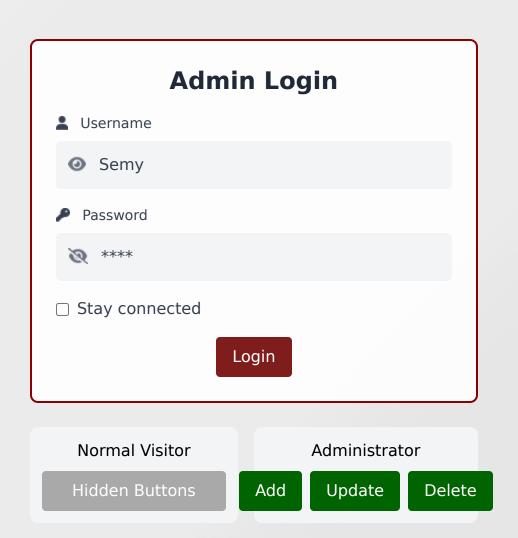
#### **Role-Based Access**

The buttons for "Add a Movie", "Update a Movie" and "Delete a Movie" only become visible after successful authentication as an administrator.



#### **Database Integrity**

This approach ensures the integrity and security of the movie database, preventing unauthorized modifications by unidentified users.



# Admin Features - Complete CRUD Operations

Control your movie database with the four fundamental operations



#### **Create**

Administrators can add new movies to the database via a simple and dedicated form. This feature allows the film collection to be expanded intuitively.



#### Read

All movies are displayed on the main page, which allows for a quick and easy visualization of the complete collection. Users can browse all movies without restriction.



#### **Update**

Details of existing movies can be easily modified using the "Update" function on each movie card. This helps maintain the database with accurate information.



#### **Delete**

Movies can be permanently deleted from the database using the "Delete" function. This feature helps maintain a clean and up-to-date database.

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## **Pages Support**

Pages that complete the professional aspect of the application



This section is dedicated to information about the developer, Emanuel Panait, and the project context.

- Presentation of the developer's skills and experience
- Description of the project context and objective
- Addition of personal elements to humanize the application



Offers a method for users or visitors to make contact, completing the professional aspect of the application.

- Contact form for communications
- Additional contact information (email, social media)
- Automatic thank you message after submission

1 These pages add a professional and personal touch to the application, complementing the overall user experience.

# **User Experience - Smooth Transitions**

#### **User-Centered Approach**

The Film Catalog application was designed with special attention to user experience. We emphasized the fluidity and professionalism of navigation.



#### **Modern Look**

The modern and professional design enhances the overall appeal of the application and strengthens users' perception of quality.



#### **Seamless Navigation**

Smooth transitions between page loads and filtering actions avoid abrupt screen refreshes.



Smooth and professional experience

# **Technologies Used**



#### **Backend**

Python with the Django framework. Django allows creating a robust and secure web application, with a relational database managed by the ORM (Object-Relationship Mapping).



#### **Frontend**

HTML, CSS (with Tailwind CSS) and JavaScript for interactivity and transitions. These technologies create a modern and responsive user interface.







#### **Database**

Relational database like PostgreSQL or SQLite, managed by Django's ORM. This allows for simple database abstraction and easy migration between different systems.



#### **Architecture**

Model-View-Template (MVT) design pattern, which is standard for Django applications. This model separates logic, presentation, and data, facilitating development and maintenance.



### Conclusions

#### Film Catalog Project - Summary

The Film Catalog project has successfully demonstrated a complete web application, with key features for both users and administrators.



#### **Dynamic Filtering**

Successful implementation of dynamic filtering and search, providing a smooth and intuitive user experience.



#### **Application Security**

Ensuring the security of the application through a robust authentication system and secure content management.

Thank you for your attention Any questions?