

## Intro 🖺

Project name:

Console application for searching movies by Sakila database.

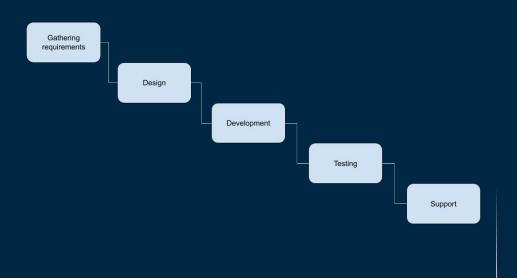
#### Description:

The app allows to search for movies in the Sakila database, filter the results by title, genre, release year, actor, get detailed information about the movies and view popular queries.

## Software development model



Taking into account fixed software requirements and short implementation deadlines, a waterfall development model was chosen.



## Requirements



#### Basic:

- Creating a console application for searching movies in the sakila database.
- All entered search queries are stored in a separate table.
- Search by the keyword, by genre and year.
- On command a list of the most popular queries are displayed.

#### Additional functionality:

- View all movies
- Flexible search by request

# Technologies 💻

**Python**: Application logic, request processing.

**MySQL**: Storing data about films, actors and categories.unittest

**Database tools:** 

DBeaver

Python libraries:

PyMySQL

python-dotenv

tabulate



# Design Python modules:



#### main.py

represents the main interface for interaction with the program for working with the DB.

## user\_input.py

contains functions for user input that are used in the main module (main.py).

## print\_tables.py

class for page-by-page output of movies (pagination).

## db\_connect.py

represents a ConnectionDB class, which is used to work with the MySQL database.

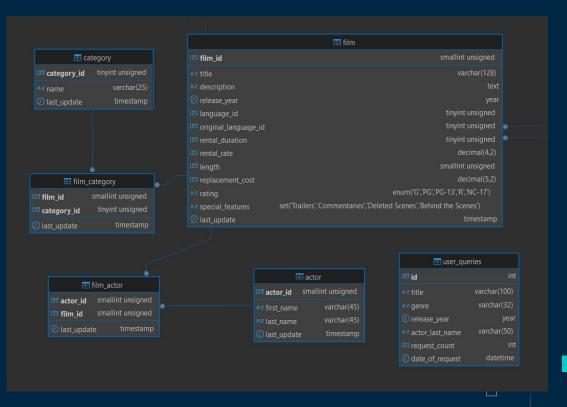
### sql\_requests.py

working with the MySQL database associated with user requests.

## Database model



The diagram IDEF1X shows the analyzed tables of the database model.



# Testing 🚟



#### User Interface:

- input genre:comedy2
- Invalid name of genre. The genre name must not contain numbers.
- input genre:CfRvpeWaPskLyElcwGRpRihnPUfjUNjrV
- Invalid name of genre. Name of genre must be less than 32 characters
  - input genre:comedy
- input film release year:two

Invalid input. Please enter a numeric year.

- input film release year:1900

Invalid year. Year must be between 1901 and 2155.

#### Unit Test:

Ran 3 tests in 0.026s

OK

Process finished with exit code 0

# THANKS

CREDITS: This presentation template was created by Slidesgo, including icons by Flaticon, and infographics & images by Freepik

Please keep this slide for attribution