

MOVIEINSIGHT

User Manual

1. Introduction

MOVIEINSIGHT is a web-based movie analytics platform that allows users to explore movies, analyze trends, and discover recommendations using advanced database queries. It provides intelligent search, actor insights, profitability analysis, and related movie recommendations based on keywords and past data.

The platform leverages a structured MySQL backend to provide insights into movies, actors, and production companies.

2. Application Overview : Functionality

2.1 Features

The application includes following features:

Feature	Description	User Input	Backend Query
 Smart Movie Search	Users can search for movies by keywords in their description (overview). The results are ranked by relevance and popularity. Results limited to 10 by default.	search keywords, results limit (optional)	query_1
 Movie Recommendations (Similar Movies)	Users can get personalized movie recommendations based on shared keywords with a given movie. Results ranked by the number of shared keywords (higher matches come first). Results limited to 10 by default.	movie title, results limit (optional)	query_6
 Find Actor Dynasties	Users can search for actors based on last names (e.g., “Skarsgård”) to discover family connections in the film industry. Actors are ranked by the number of movies they have appeared in.	actor's last name	query_2
 Top-Rated Actors in a Genre (“Top Actors” in the UI mockup)	Users can find top 10 actors who have most frequently appeared in highly-rated movies within a selected genre.	genre	query_4
 Top 5 Most Profitable Movies in a Genre	Users can filter and explore the top 5 most profitable movies in a selected genre, along with average genre profitability.	genre	query_3
 Top 5 Production Companies by Revenue	Users can see which movie production companies generate the highest revenue. The list only includes larger companies that produced more than 5 movies.	-	query_5

Backend Query refers to the main mysql queries designed in this project.

2.2 Getting Started

To begin using MovieInsight, follow these simple steps:

1. Search for a Movie – Use the homepage search bar to find movies based on keywords from their descriptions.
2. Discovering Similar Movies – Navigate to the "Similar Movies" section, enter a movie title, and get personalized movie recommendations based on shared keywords.
3. Exploring Actor Lineages – Use the Actor Dynasties feature to find an actor by their last name and uncover their cinematic family history.
4. Discover Top Actors in a Genre – Access the "Top Actors" feature to view the top 10 actors who have appeared in highly-rated movies within a specific genre. Actors are ranked based on their involvement in movies with ratings above the genre's average.
5. Analyzing Movie Profitability – Visit "Production Insights: Top 5 Most Profitable Movies in a Genre" to explore the most financially successful movies by genre.
6. Reviewing Top Production Companies – In "Production Insights: Top 5 Production Companies by Revenue," find out which companies generate the highest revenue in the industry.

3. Web Application Use Cases

1. Movie Enthusiasts – search movies by descriptive words, find movies similar to their favorites and explore actor dynasties in film.
2. Film Students & Analysts – gain insights into movie trends, top actors in selected genres, and high-revenue studios.
3. Producers & Investors – understand profitable movies within genres to make investment decisions.
4. Casting Directors – find actors who frequently work in high-rated movies of a given genre.
5. General Public – simply search for movies using natural language descriptions.

4. UI Mockup

4.1 MovieInsight UI Mockup Concept

Layout & Design Approach:

Single-page scrollable design with smooth anchor-based navigation.

Navigation menu at the top-right, with quick links:

 Search Movies

 Similar Movies

 Actor Dynasties

 Top Actors by Genre

 Production Insights (Dropdown with):

 Top 5 Most Profitable Movies by Genre

 Top 5 Production Companies by Revenue

Each section has a full-width layout with ample padding & clear separation.

Modern, clean UI with a movie-centric theme (dark mode, cinematic gradients, high-quality imagery).

Search results will be presented in an aesthetic and easily comprehensible way.

Some numeric results may be presented as graphs (e.g. Production Insights as bar graphs).

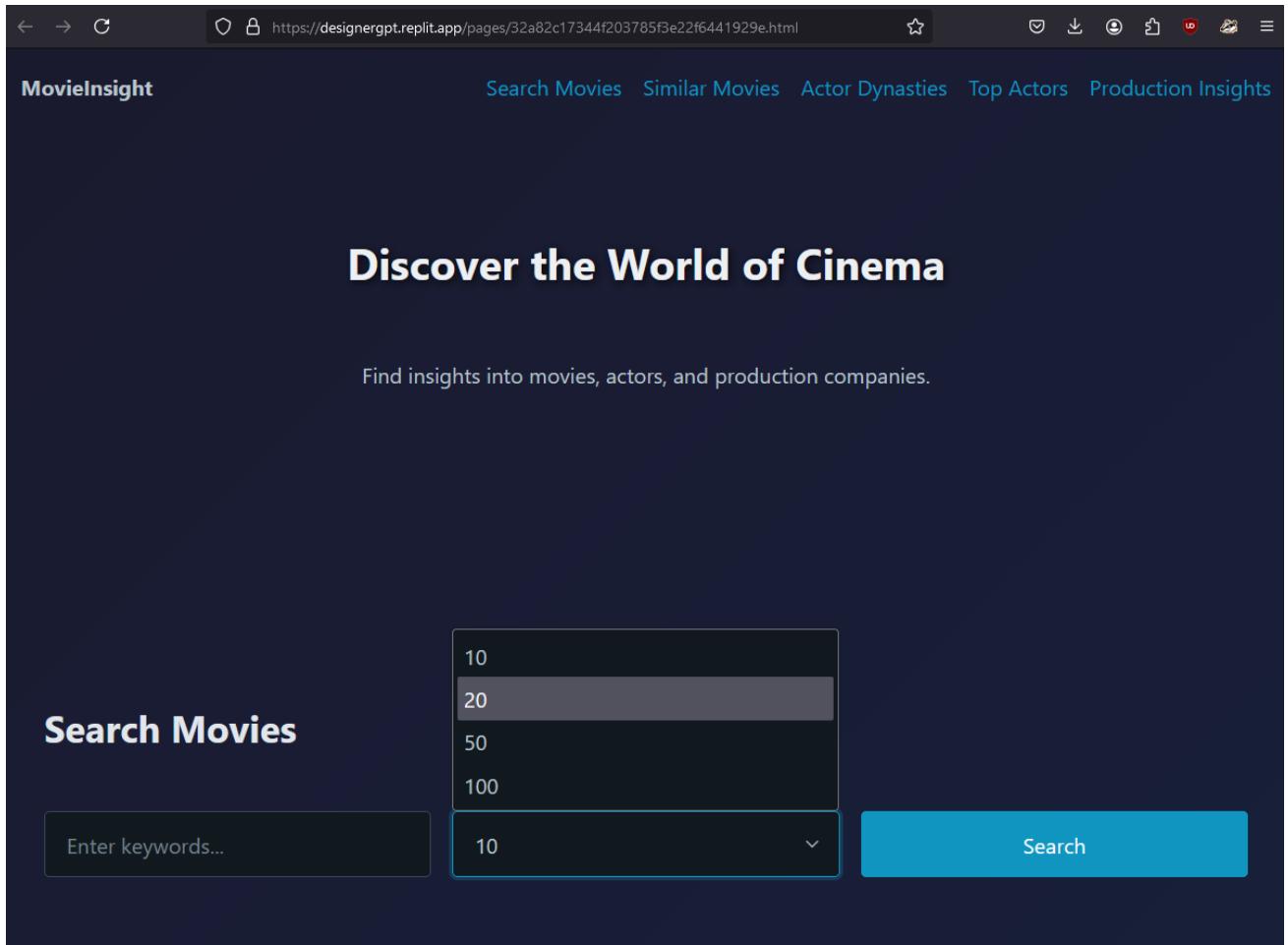
Each section will include a brief description of the feature (see table features).

4.2 MovieInsight UI Mockup

Strong Advisory;

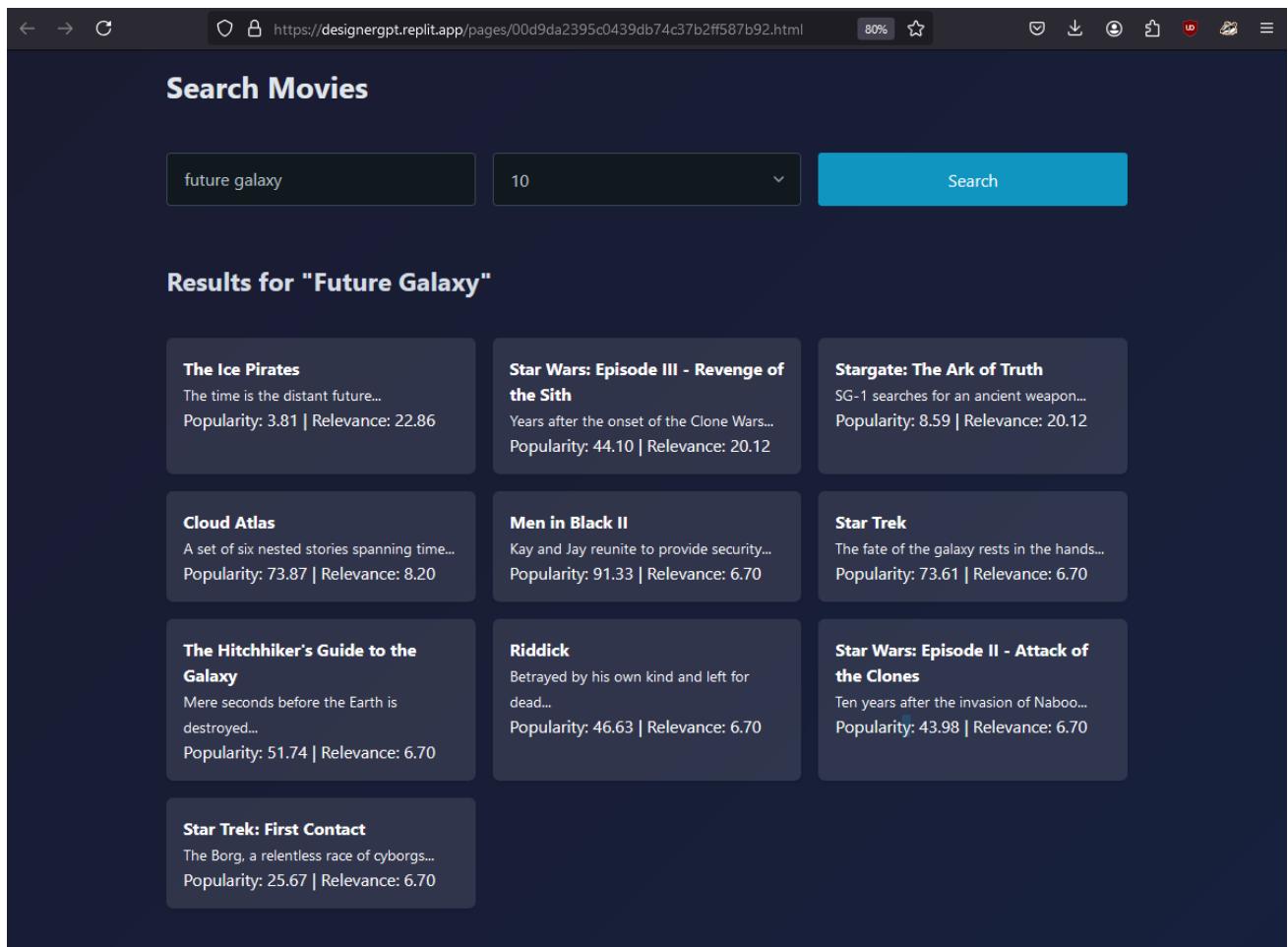
Neither of the writers of this manual are, nor have ever been, graphic designers. The following principal design is intended solely to illustrate the integration of the developed MySQL backend functionality into a web app frontend.

Home + Search Movies (query_1)



The screenshot shows a dark-themed web application for movie insights. At the top, there's a navigation bar with links for "Search Movies", "Similar Movies", "Actor Dynasties", "Top Actors", and "Production Insights". Below the header, a large white text "Discover the World of Cinema" is centered. A subtitle below it reads "Find insights into movies, actors, and production companies." On the left side, there's a section titled "Search Movies" with a search input field containing placeholder text "Enter keywords...". To the right of the search input is a dropdown menu with options 10, 20, 50, and 100, with "20" currently selected. Next to the dropdown is a large blue "Search" button.

Results for Search Movies (query_1)

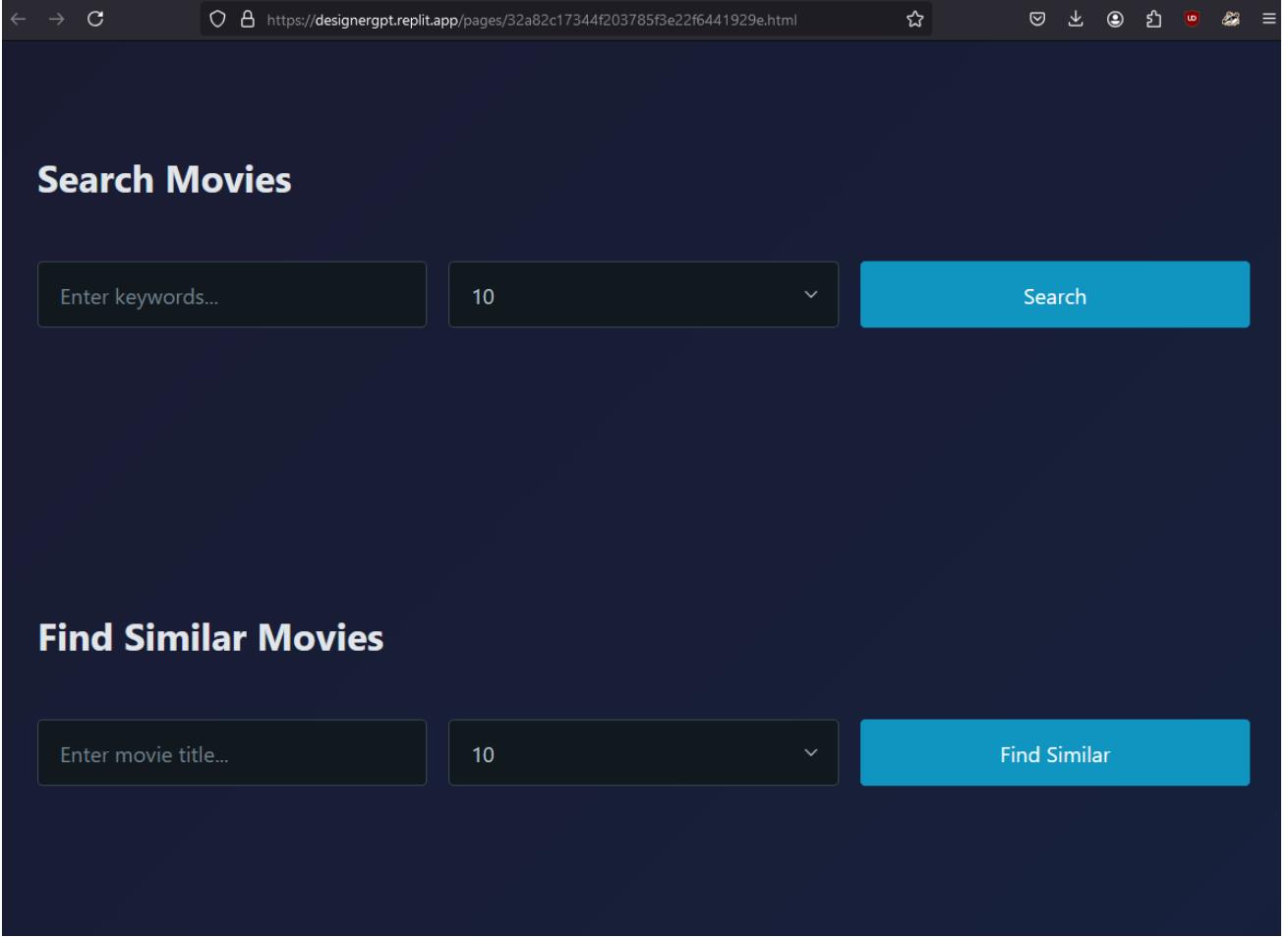


The screenshot shows a web browser window with a dark theme. At the top, there is a search bar containing "future galaxy" and a dropdown menu set to "10". To the right of these are several browser icons. Below the search bar is a large title "Search Movies". Underneath, a heading "Results for 'Future Galaxy'" is displayed. The results are presented in a grid of cards:

Movie Title	Summary	Popularity	Relevance
The Ice Pirates The time is the distant future... Popularity: 3.81 Relevance: 22.86	Star Wars: Episode III - Revenge of the Sith Years after the onset of the Clone Wars... Popularity: 44.10 Relevance: 20.12	Stargate: The Ark of Truth SG-1 searches for an ancient weapon... Popularity: 8.59 Relevance: 20.12	
Cloud Atlas A set of six nested stories spanning time... Popularity: 73.87 Relevance: 8.20	Men in Black II Kay and Jay reunite to provide security... Popularity: 91.33 Relevance: 6.70	Star Trek The fate of the galaxy rests in the hands... Popularity: 73.61 Relevance: 6.70	
The Hitchhiker's Guide to the Galaxy Mere seconds before the Earth is destroyed... Popularity: 51.74 Relevance: 6.70	Riddick Betrayed by his own kind and left for dead... Popularity: 46.63 Relevance: 6.70	Star Wars: Episode II - Attack of the Clones Ten years after the invasion of Naboo... Popularity: 43.98 Relevance: 6.70	
Star Trek: First Contact The Borg, a relentless race of cyborgs... Popularity: 25.67 Relevance: 6.70			

Future versions may include a movie roll with posters as a background.

Find Similar Movies (query_6)



The screenshot shows a web browser window with a dark theme. At the top, the URL is https://designergpt.replit.app/pages/32a82c17344f203785f3e22f6441929e.html. Below the URL bar, there are several browser icons.

The first form, titled "Search Movies", contains a text input field with placeholder text "Enter keywords...", a dropdown menu set to "10", and a blue "Search" button.

The second form, titled "Find Similar Movies", contains a text input field with placeholder text "Enter movie title...", a dropdown menu set to "10", and a blue "Find Similar" button.

Results for Find Similar Movies (query_6)

The screenshot shows a web browser window with the URL <https://designergpt.replit.app/pages/2844f68f5abcf82dc756acad4d618c0a.html>. The page title is "Find Similar Movies". There are two input fields: one containing "The Hitchhiker's Guide to the Galaxy" and another with the number "10". A blue button labeled "Find Similar" is to the right. Below these, the heading "Results for 'The Hitchhiker's Guide to the Galaxy'" is displayed. The results are presented in a grid of cards:

Movie	Popularity	Shared Keywords
Galaxina	2.14	4
Interstellar	724.24	3
The Martian	167.93	3
Alien	94.18	3
Aliens	67.66	3
Home	63.47	3
The 5th Wave	57.89	3
Alien ³	45.85	3
John Carter	43.92	3
Spaceballs	39.89	3

Future versions may include a movie roll with posters as a background.

Actor Dynasties (query_2)

The screenshot shows a dark-themed web application interface with three main sections:

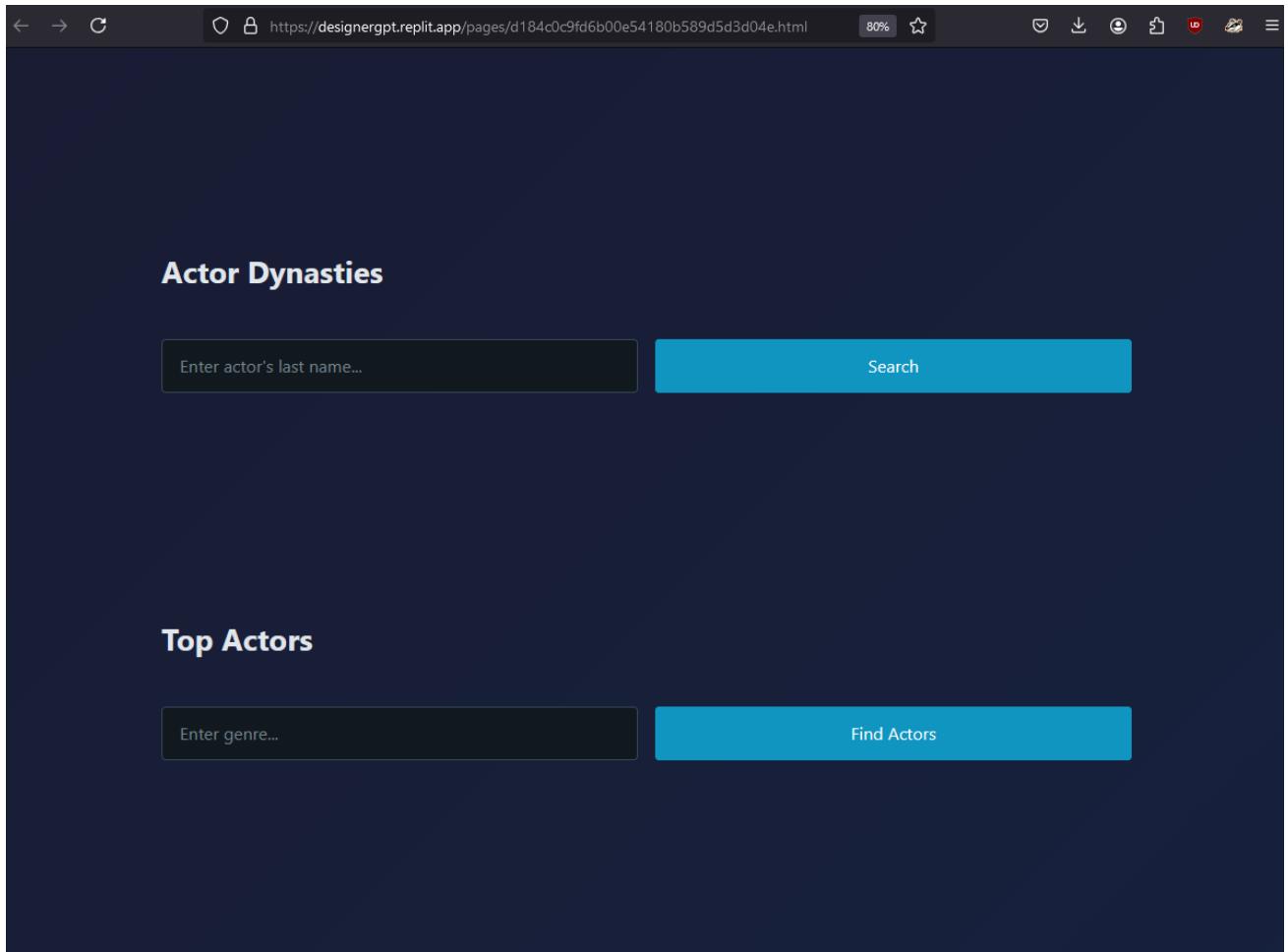
- Find Similar Movies**: A form with an input field labeled "Enter movie title...", a dropdown menu set to "10", and a blue "Find Similar" button.
- Actor Dynasties**: A form with an input field labeled "Enter actor's last name..." and a blue "Search" button.
- Top Actors**: A form with an input field labeled "Drama" and a blue "Find Actors" button.

The URL in the browser bar is <https://designergpt.replit.app/pages/a167f4b0962bcc83e639f1b27acc1346.html#actor-dynasties>.

Results for Actor Dynasties (query_2)

The screenshot shows a web browser window with a dark blue header bar. The address bar displays the URL <https://designergpt.replit.app/pages/656ad21efda3011c4117aa8ae889fbcc.html#similar>. Below the address bar is a toolbar with various icons. The main content area has a dark blue background. At the top left, the text "Actor Dynasties" is displayed in white. Below it is a search bar with the text "Skarsgard" on the left and a blue "Search" button on the right. Underneath the search bar, the text "Results for 'Skarsgard'" is shown in white. There are four rounded rectangular buttons below this text, each containing a name and a count of movies: "Stellan Skarsgård - 24 Movies", "Alexander Skarsgård - 9 Movies", "Bill Skarsgård - 2 Movies", and "Gustaf Skarsgård - 1 Movie".

Top Actors (query_4)



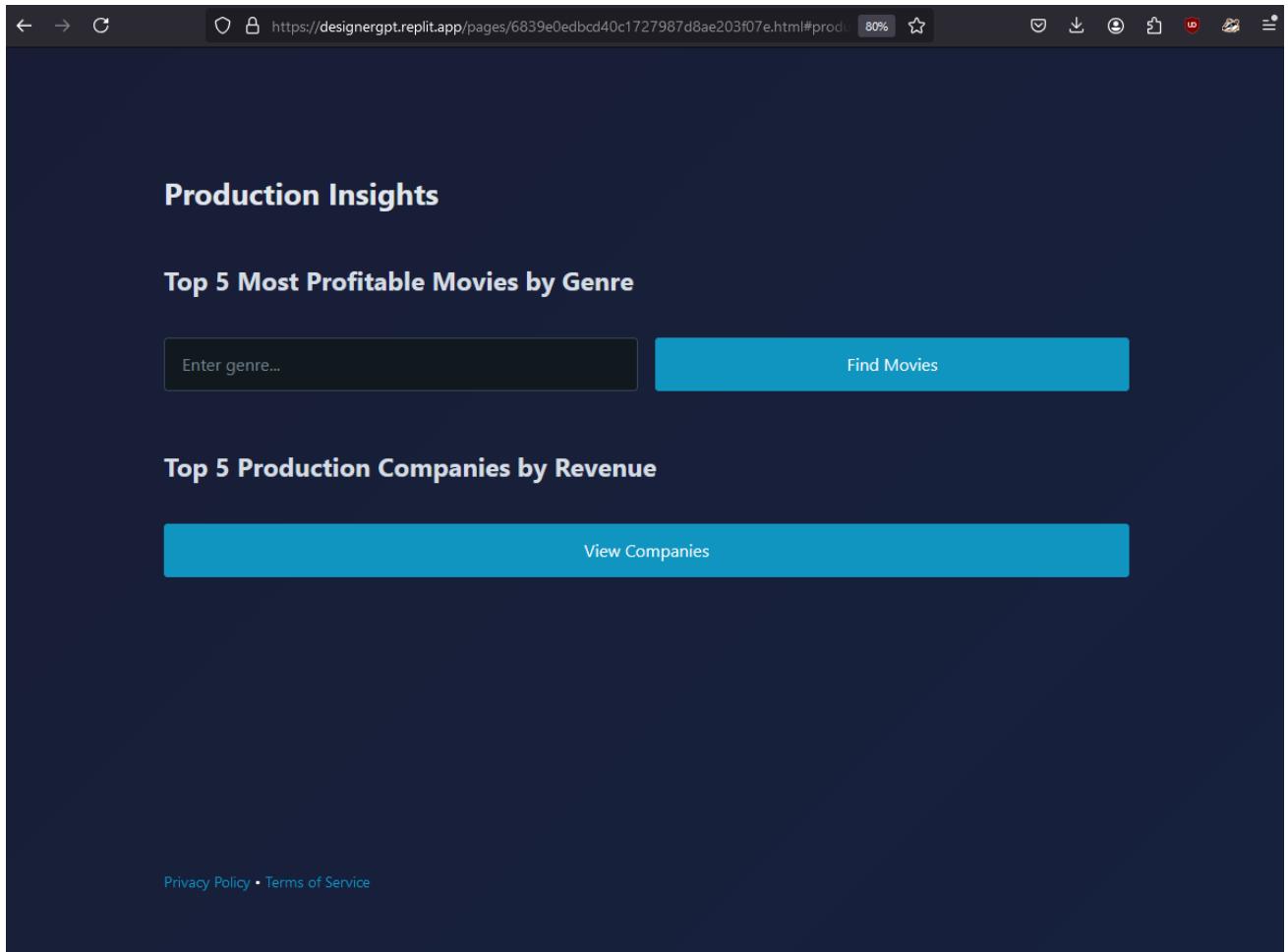
Future versions will rename to Top Actors by Genre and include explanation about the nature of this ranking. (see features table).

Results for Top Actors (query_4)

The screenshot shows a web browser window with a dark blue header bar. The address bar displays the URL: <https://designergpt.replit.app/pages/a167f4b0962bcc83e639f1b27acc1346.html>. The page content is titled "Top Actors". A button labeled "Drama" is visible, and a prominent blue button labeled "Find Actors" is centered above the results. The main area is titled "Results for 'Drama'" and lists eight actors with their names and the number of high-rated movies they have been in:

Actor	Number of High-Rated Movies
Matt Damon	20
Brad Pitt	20
Philip Seymour Hoffman	19
Christian Bale	19
Tom Hanks	18
Robert De Niro	18
Willem Dafoe	18
Jim Broadbent	18
Denzel Washington	17
Ed Harris	17

Production Insights : Top 5 Most Profitable Movies in a Genre(query_3)



The screenshot shows a web browser window with a dark blue header bar. The address bar displays the URL <https://designergpt.replit.app/pages/6839e0edbcd40c1727987d8ae203f07e.html#prod>. The main content area has a dark blue background and features the following elements:

- Production Insights**: A large, bold, white font heading.
- Top 5 Most Profitable Movies by Genre**: A section title in white font.
- A search input field with the placeholder "Enter genre..." and a blue "Find Movies" button.
- Top 5 Production Companies by Revenue**: Another section title in white font.
- A blue button labeled "View Companies" in white font.
- Privacy Policy • Terms of Service: Links at the bottom left.

Production Insights : Results for Top 5 Most Profitable Movies in a Genre(query_3)

The screenshot shows a web application titled "Production Insights" with a dark blue background. At the top, there is a navigation bar with icons for back, forward, search, and refresh, along with the URL <https://designergpt.replit.app/pages/e723f4e419cb4d886aacd357277f0c54.html> and a zoom level of 80%. Below the navigation is a header "Production Insights". Underneath it, a section titled "Top 5 Most Profitable Movies by Genre" contains a button labeled "Comedy" and a blue button labeled "Find Movies". A sub-section titled "Results for Comedy" displays five movie cards: "Minions" (Profit: \$1,082,730,962 | Avg Profit: \$45,976,077.70), "Despicable Me 2" (Profit: \$894,761,885 | Avg Profit: \$45,976,077.70), "Toy Story 3" (Profit: \$866,969,703 | Avg Profit: \$45,976,077.70), "Ice Age: Dawn of the Dinosaurs" (Profit: \$796,686,817 | Avg Profit: \$45,976,077.70), and "Ice Age: Continental Drift" (Profit: \$782,244,782 | Avg Profit: \$45,976,077.70). Below this, another section titled "Top 5 Production Companies by Revenue" has a blue button labeled "View Companies".

Future versions may include a bar chart for top results with comparison to the average.

Production Insights : Top 5 Production Companies by Revenue(query_5)

The screenshot shows a web browser window with a dark blue header bar. The address bar displays the URL <https://designergpt.replit.app/pages/e723f4e419cb4d886aacd357277f0c54.html>. The main content area has a dark blue background with white text. At the top, it says "Results for Comedy". Below that, there are four movie cards in a grid:

- Minions**
Profit: \$1,082,730,962 | Avg Profit: \$45,976,077.70
- Despicable Me 2**
Profit: \$894,761,885 | Avg Profit: \$45,976,077.70
- Toy Story 3**
Profit: \$866,969,703 | Avg Profit: \$45,976,077.70
- Ice Age: Dawn of the Dinosaurs**
Profit: \$796,686,817 | Avg Profit: \$45,976,077.70
- Ice Age: Continental Drift**
Profit: \$782,244,782 | Avg Profit: \$45,976,077.70

Below the cards, the text "Top 5 Production Companies by Revenue" is displayed in a bold, dark blue font. A blue button at the bottom contains the text "View Companies". At the very bottom of the page, in small white text, are the links "Privacy Policy" and "Terms of Service".

Production Insights : Results for Top 5 Production Companies by Revenue(query_5)

The screenshot shows a web browser window with the URL <https://designergpt.replit.app/pages/e615f9dd965450ed343b218c763c0cac.html>. The page displays production insights for top 5 production companies by revenue. At the top, two boxes show profit and average profit: Profit: \$796,686,817 | Avg Profit: \$45,976,077.70 and Profit: \$782,244,782 | Avg Profit: \$45,976,077.70. Below this, a section titled "Top 5 Production Companies by Revenue" lists five companies with their movie counts and average revenues:

Company	Movies	Revenue	Avg Revenue
Warner Bros.	319	\$49,155,747,874	\$154,093,253.52
Universal Pictures	311	\$42,588,465,942	\$136,940,404.96
Paramount Pictures	285	\$40,878,523,165	\$143,433,414.61
Twentieth Century Fox Film Co.	222	\$39,357,151,309	\$177,284,465.35
Walt Disney Pictures	114	\$28,683,256,048	\$251,607,509.19

A blue button labeled "View Companies" is located at the bottom of the company list. At the very bottom of the page, there are links for "Privacy Policy" and "Terms of Service".