

Movie Database

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Description:

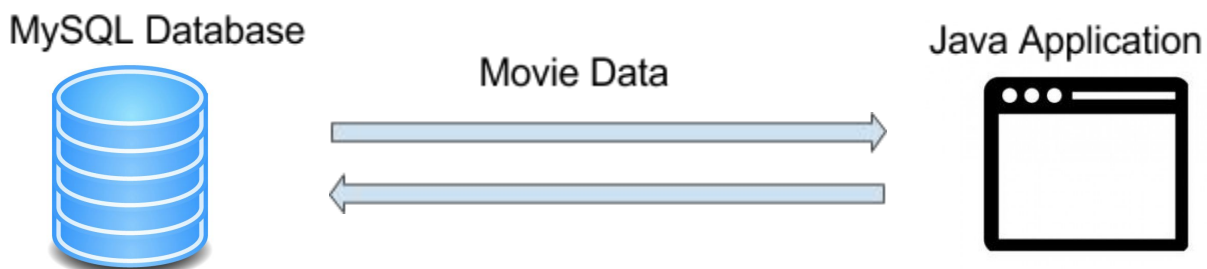
This project provides a database and GUI for storing and retrieving information about Movies. The database is capable of storing many attributes about a movie such as its Title, Duration, Genre, Director, Actors, reviews etc. Since actors and directors can be relevant to many different movies, their information is stored in separate tables and attached to each movie where necessary to avoid storing duplicate information and make it quicker to add actor/director information to a movie. There is also a table of reviews related to each movie and the GUI user can create/view reviews on the movie.

Architecture:

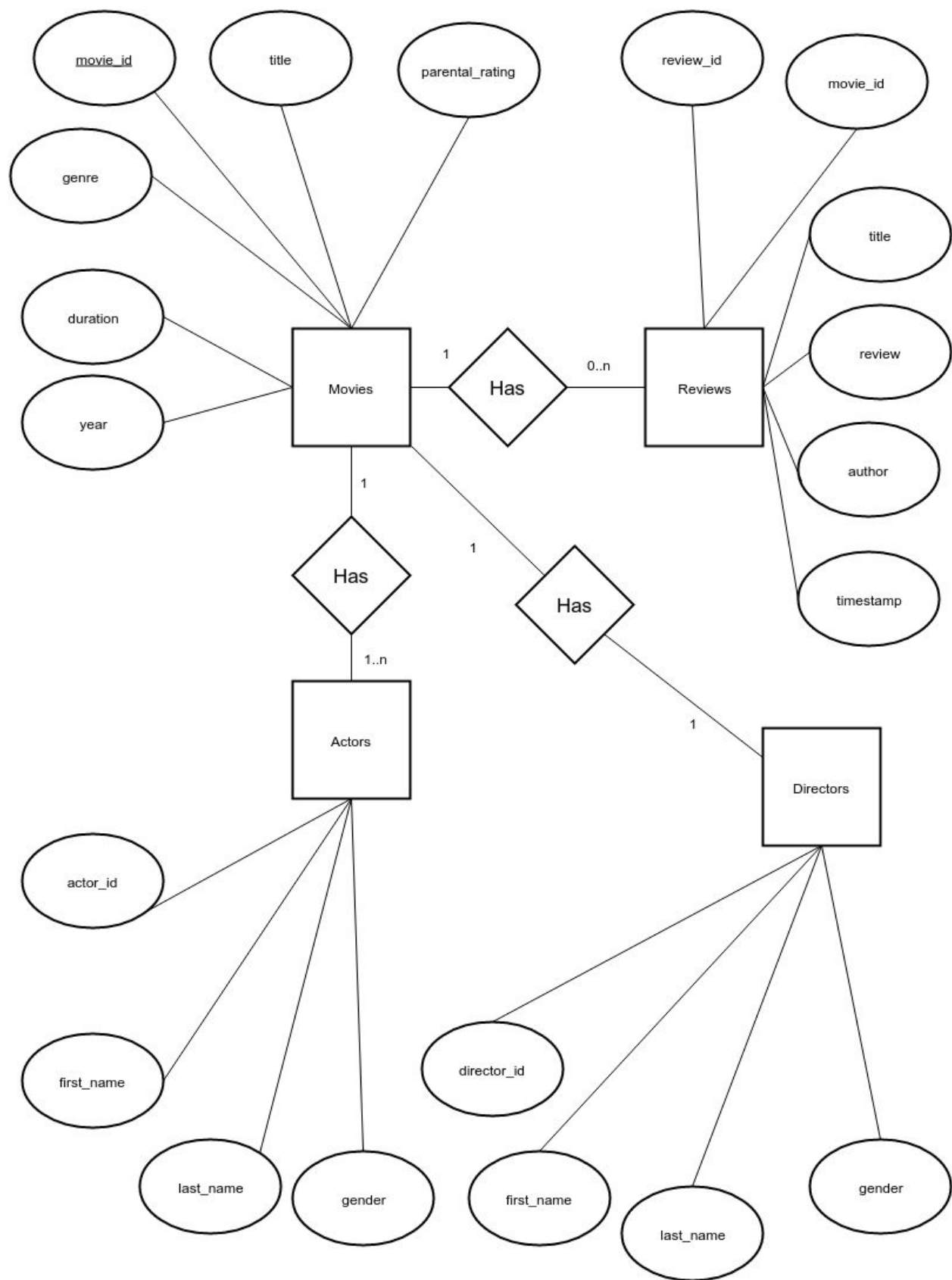
The Movies application has only two parts, the database and Java application. MySQL is the Database Management System used for the Movie database. All of the data is stored in a single database “movies”. In the “movies” database there are a series of tables such as “movies”, “actors” and “directors” where information related to the movies is stored.

Java + JDBC is used to query the database and build the GUI. We wrote a Database.java class as well as a bunch of object classes such as Movie.java and Actor.java which turn the relational data (data queried from the database) into objects that the front end can then iterate through and display in lists. The GUI was built in Java Swing making it cross platform and easy use with JDBC.

We chose this architecture to make installation, setup and portability as simple as possible.

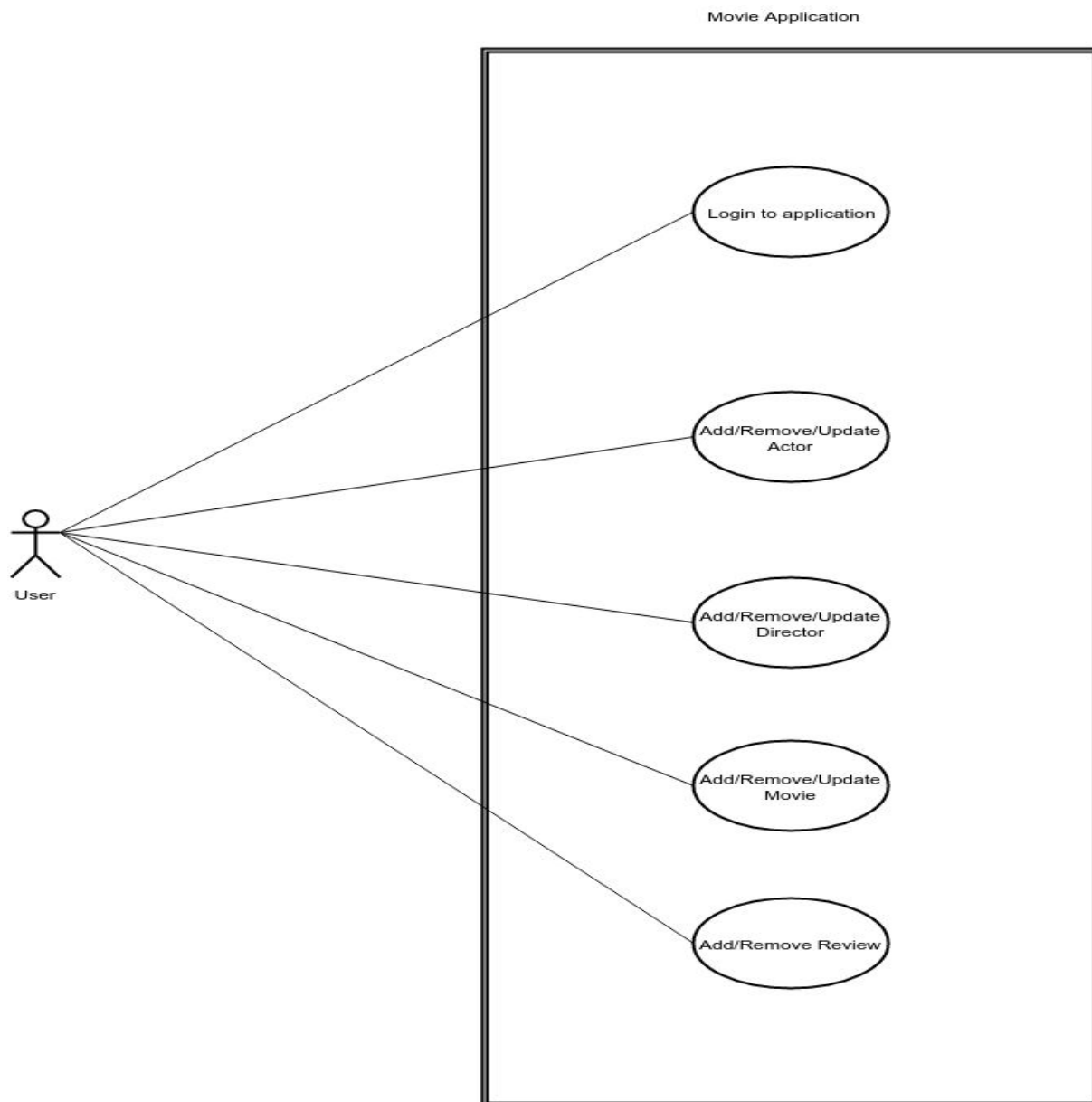


E/R Diagram:



Use Case Diagram:

The application is intended to be a general use application for storing information about movies. The application is only intended for one actor/user to be able to store relevant movie information and alter it for the purpose of storage. Because of this, the use case diagram is really simple since only one actor uses the software/database.



Installation Instructions:

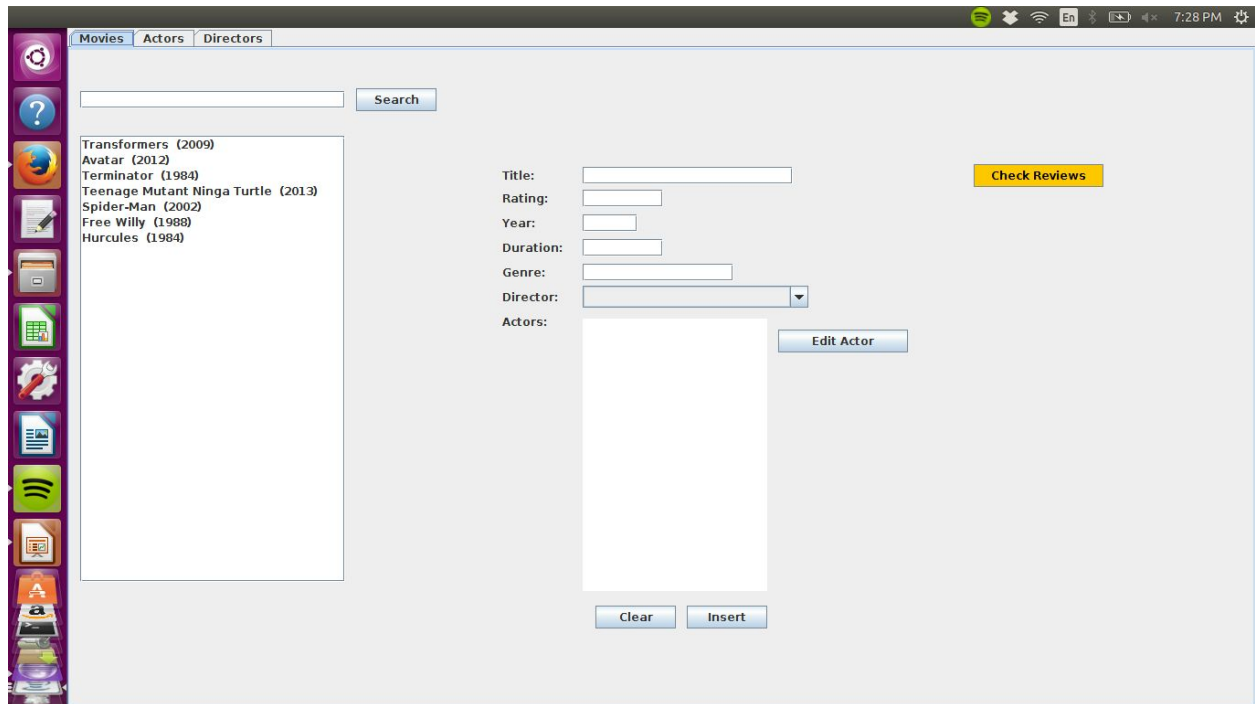
- 1) Import the movies.sql file into a MySQL database called "movies"

- 2) Run the Movies.jar file to run the application with. You can use “java -jar Movies.jar” in the terminal/command prompt.

Using the Program:

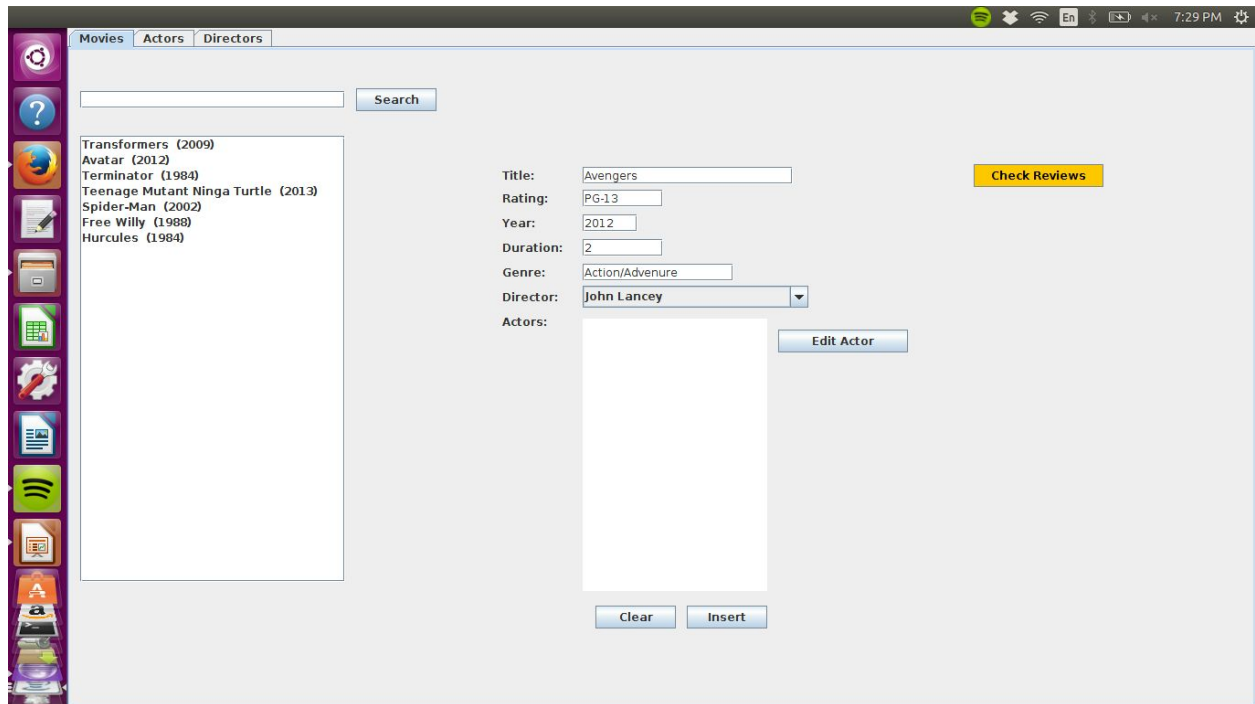
First login using the ip address, port and username/password of the database.

Here you are able to search for a pre-existing movie and its details will be displayed by category

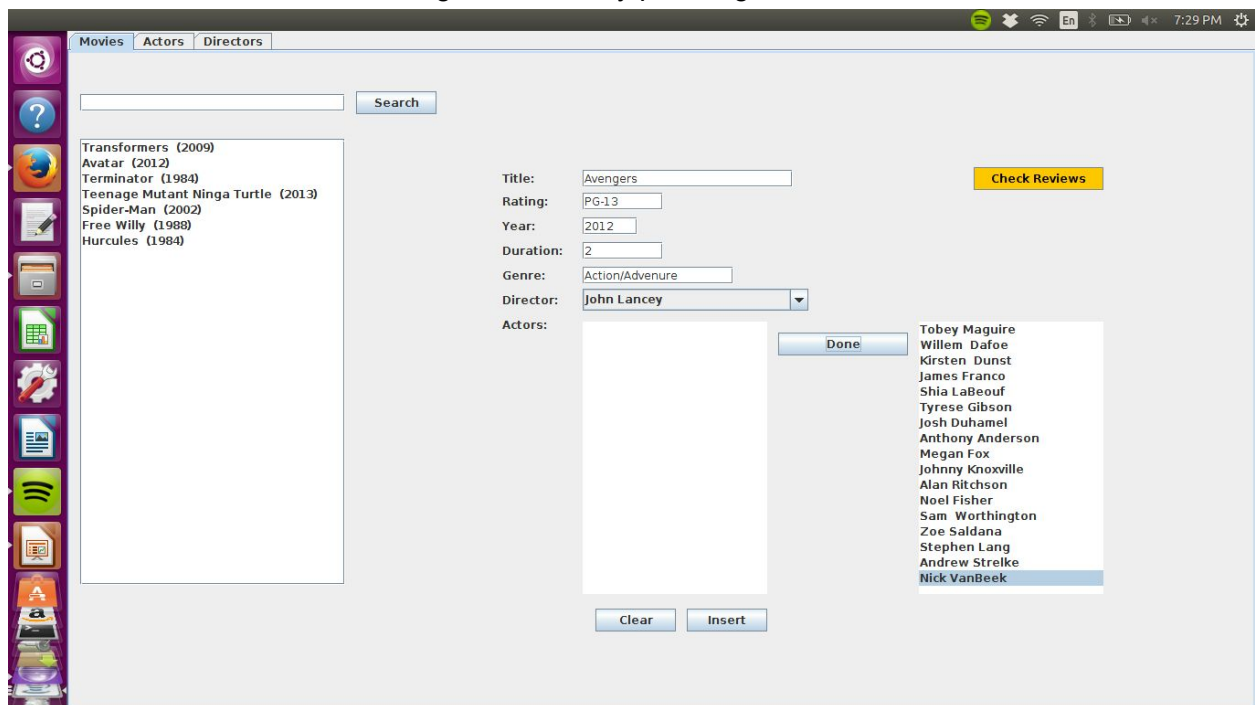


The screenshot shows a Java Swing application window titled "Movies". It has three tabs: "Movies", "Actors", and "Directors". The "Movies" tab is active. On the left, there is a vertical toolbar with icons for settings, help, and various applications. Below the toolbar is a list of movies: Transformers (2009), Avatar (2012), Terminator (1984), Teenage Mutant Ninja Turtle (2013), Spider-Man (2002), Free Willy (1988), and Hercules (1984). Above this list is a search bar with a "Search" button. To the right of the movie list is a form with fields for Title, Rating, Year, Duration, Genre, and Director. There is a "Check Reviews" button next to the Title field. Below the form fields is a large text area for "Actors" and an "Edit Actor" button. At the bottom of the form are "Clear" and "Insert" buttons. The window's title bar shows system icons and the time 7:28 PM.

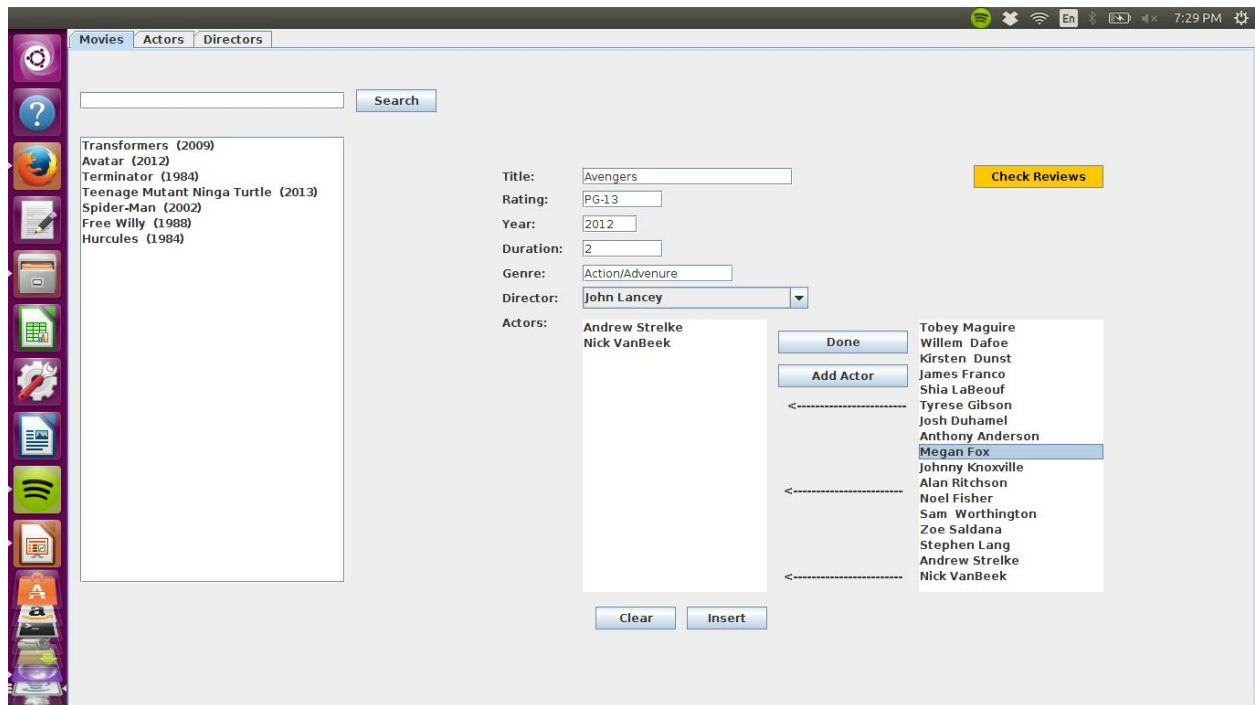
You also have the ability to create your own by filling in the categories



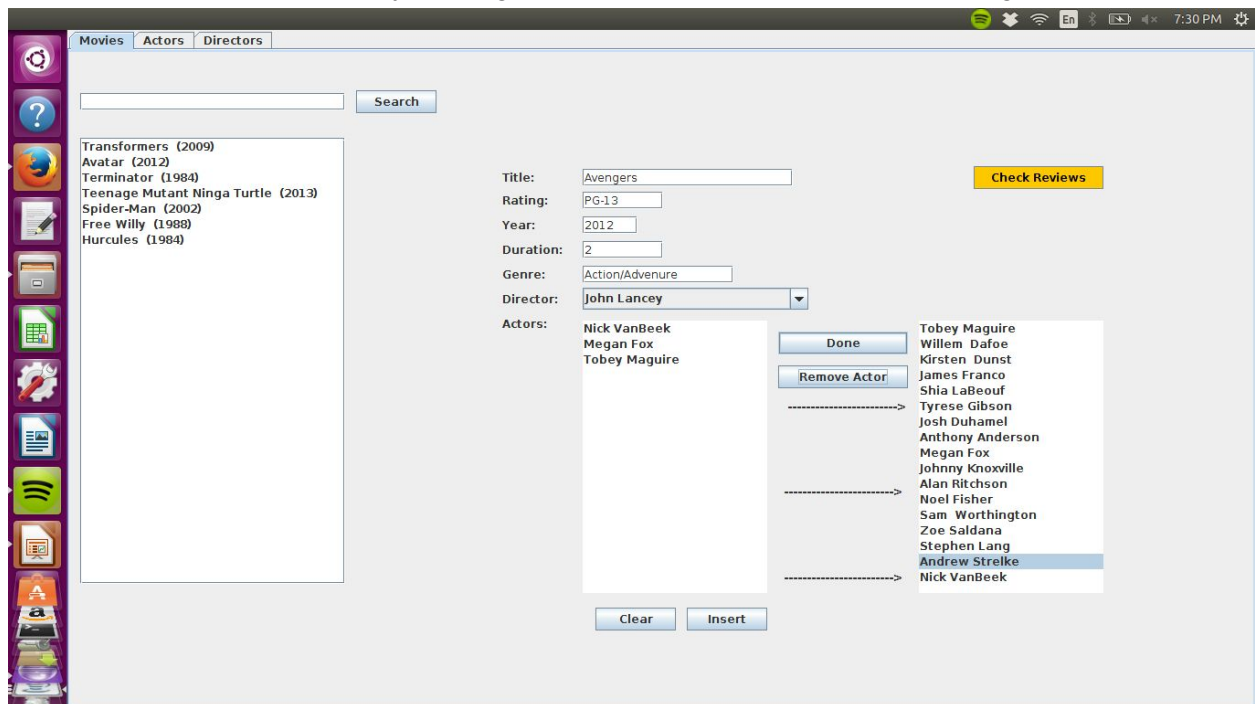
You can then add the actors to a given movie by pressing “edit actor”



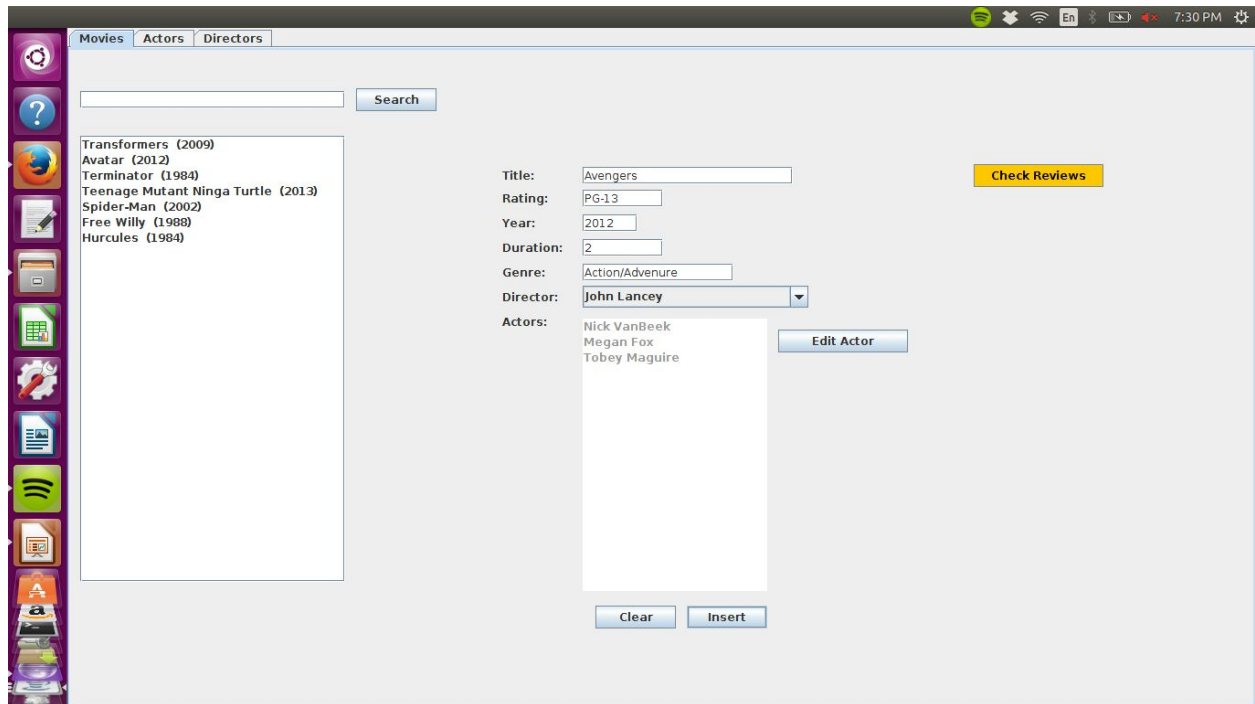
Then click each actor individually, and then add them to the description by clicking “Add Actor.”



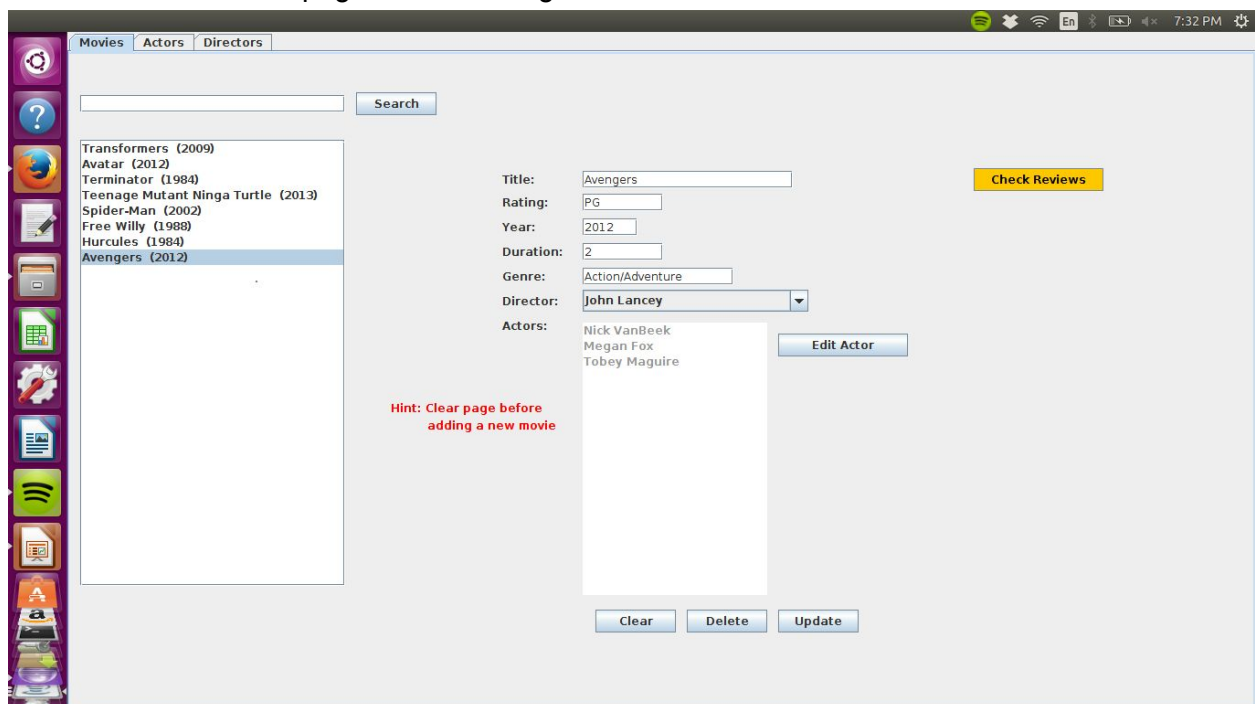
You can also remove actors by clicking on them in the description and clicking remove actor

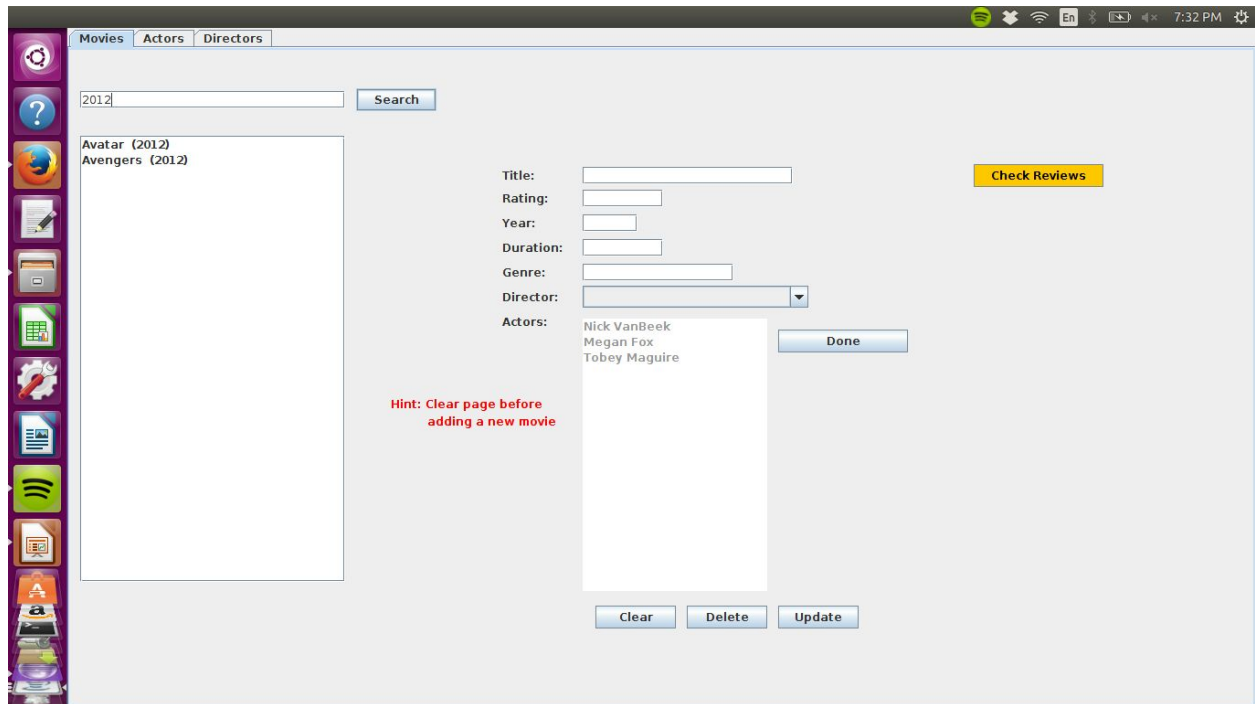


You can now “insert” this movie to the movie list

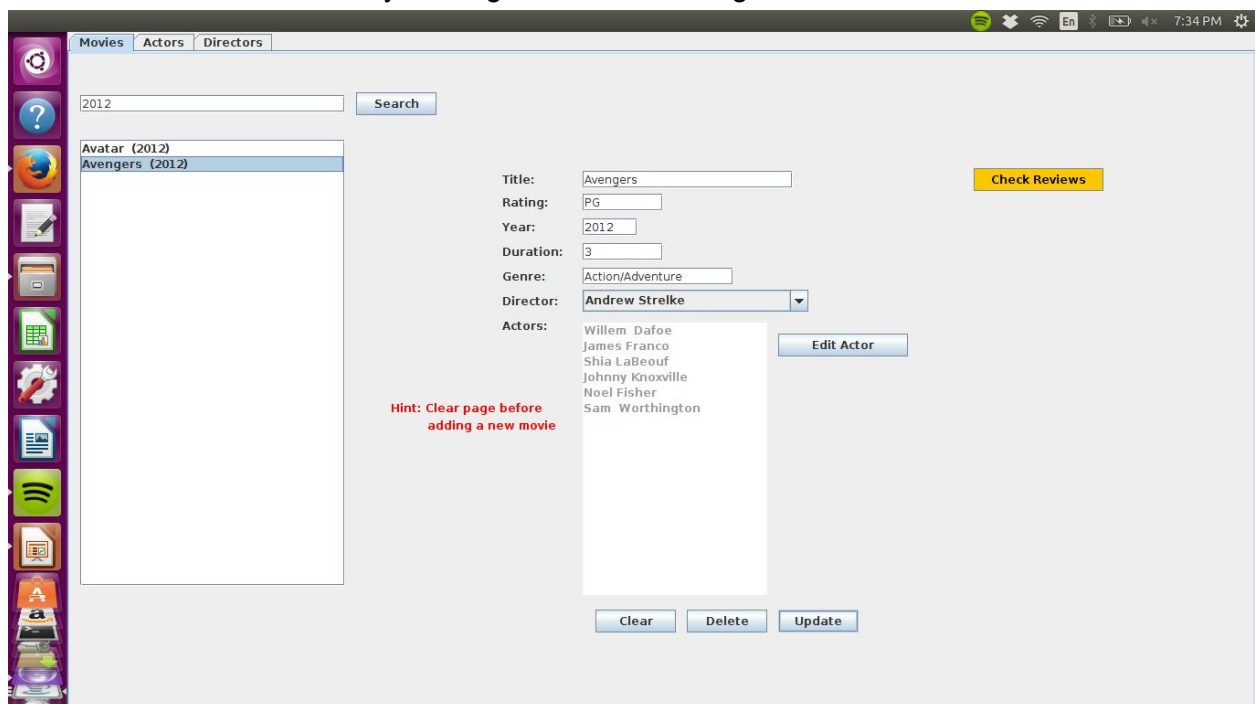


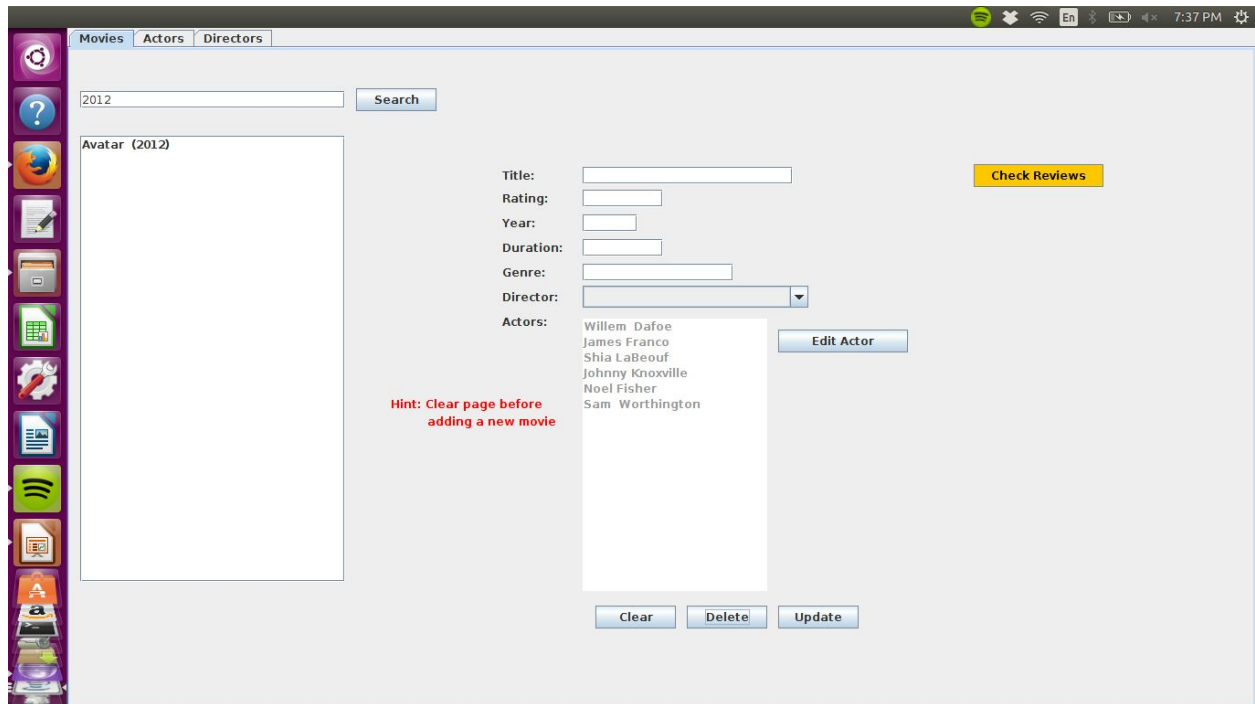
Make sure to clear the page before adding a new movie



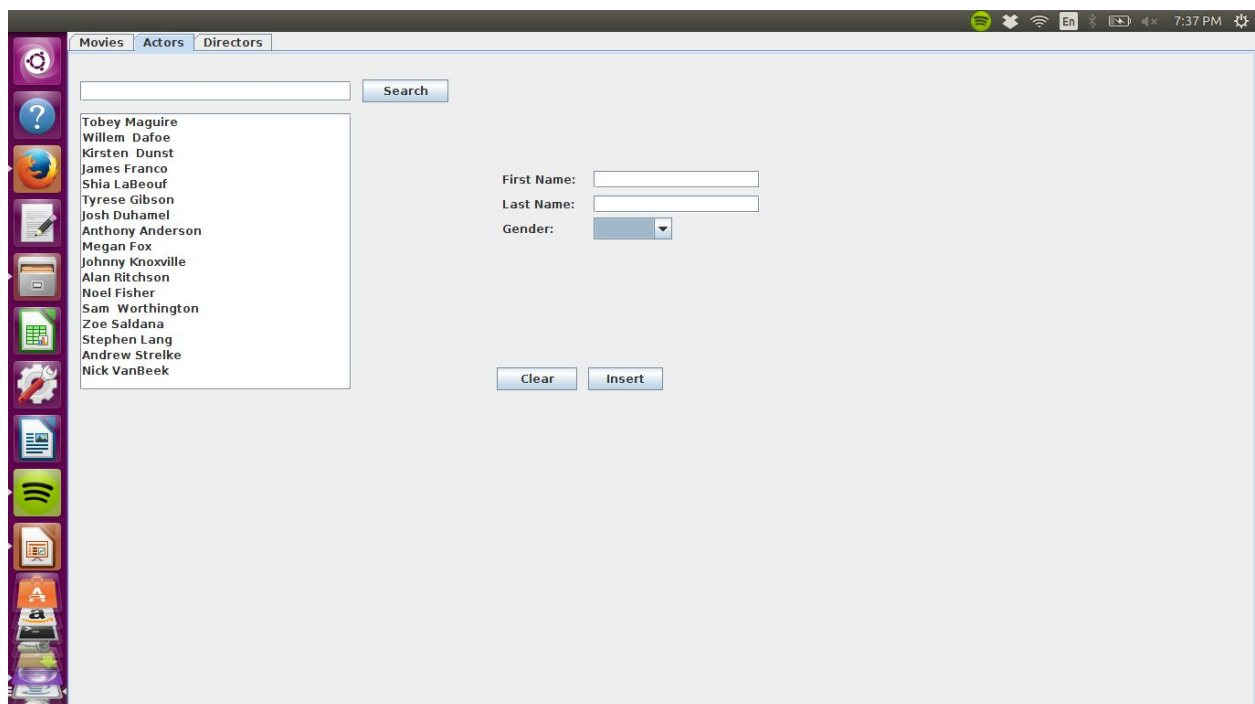


Delete a movie from the list by clicking on it and choosing delete





Here we have the actor list



Simply fill in the first and last name, as well as the gender. Then click insert

Movies | **Actors** | Directors

Search

Tobey Maguire
Willem Dafoe
Kirsten Dunst
James Franco
Shia LaBeouf
Tyrese Gibson
Josh Duhamel
Anthony Anderson
Megan Fox
Johnny Knoxville
Alan Ritchson
Noel Fisher
Sam Worthington
Zoe Saldana
Stephen Lang
Andrew Strelke
Nick VanBeek

First Name: Tom
Last Name: Cruise
Gender: Male

Clear Insert

Click this button to insert a new actor.

Your new actor will then appear in the list

Movies | **Actors** | Directors

Search

Tobey Maguire
Willem Dafoe
Kirsten Dunst
James Franco
Shia LaBeouf
Tyrese Gibson
Josh Duhamel
Anthony Anderson
Megan Fox
Johnny Knoxville
Alan Ritchson
Noel Fisher
Sam Worthington
Zoe Saldana
Stephen Lang
Andrew Strelke
Nick VanBeek
Tom Cruise

First Name: Tom
Last Name: Cruise
Gender: Male

Hint: Clear page before adding a new actor

Clear Delete Update