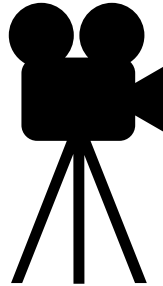# WOW for International Movies Database
Assignment (3)

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Mission Objectives

In the last assignment we had prepared some mission objectives that we wanted to update in this one, after observing the example in chapter 5. This helped us in developing the upcoming preparations for the database.

To maintain(enter,update and delete) data on name
To maintain(enter,update and delete) data on release year
To maintain(enter,update and delete) data on genre
To maintain(enter,update and delete) data on IMDB rating
To maintain(enter,update and delete) data on profit
To maintain(enter,update and delete) data on maturity rating
To maintain(enter,update and delete) data on actors
To maintain(enter,update and delete) data on soundtrack
To maintain(enter,update and delete) data on country
To maintain(enter,update and delete) data on similar movies
To maintain(enter,update and delete) data on summary
To maintain(enter,update and delete) data on reviews
To maintain(enter,update and delete) data on duration
To maintain(enter,update and delete) data on watchlist counter
To maintain(enter,update and delete) data on likes
To maintain(enter,update and delete) data on dislikes
To maintain(enter,update and delete) data on awards
To maintain(enter,update and delete) data on watchlist
To perform searches on name
To perform searches on release year
To perform searches on genre
To perform searches on IMDB rating
To perform searches on actors
To perform searches on country
To perform searches on similar movies
To perform searches on duration
To perform searches on awards
To perform searches on watchlist

To track the status of IMDB rating
To track the status of similar movies
To track the status of duration
To track the status of likes
To track the status of dislikes
To track the status of awards
To track the status of profit

To report on actors
To report on IMDB rating
To report on profit
To report on awards
To report on watchlist counter

System Definitions

Now we want to identify some user views as well as fields that will be included in our database system. This will simplify the process when implementing the system and getting the full picture beforehand.

User Views

1. Broadcasting Manager: this view is specific for both tv channels organizations and online movie platforms (for instance: Netflix, Amazon, Disney+, etc..).
2. Movie Explorer: this view is for the normal users willing to browse through the movies and select the films they prefer to add into their to-watch-list.
3. Data Editor: this view is the real deal for those who volunteer to edit the data in the website. They can add, change, and delete data on the system, making the effects visible to the rest of the users (both broadcasting managers and moviegoers).
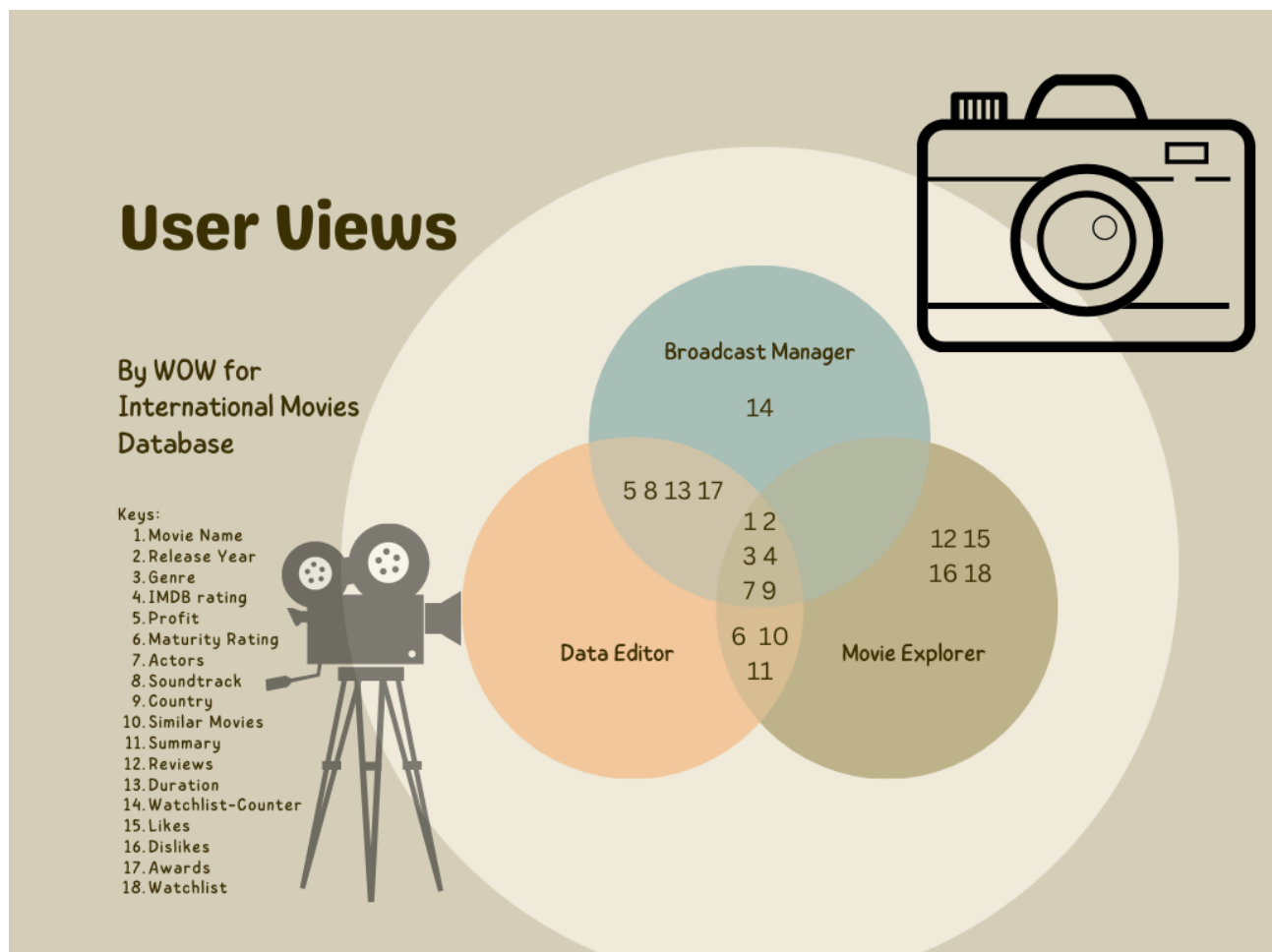

User Views

By WOW for
International Movies
Database

Keys:
1. Movie Name
2. Release Year
3. Genre
4. IMDB rating
5. Profit
6. Maturity Rating
7. Actors
8. Soundtrack
9. Country
10. Similar Movies
11. Summary
12. Reviews
13. Duration
14. Watchlist-Counter
15. Likes
16. Dislikes
17. Awards
18. Watchlist

Broadcast Manager
14

5 8 13 17

1 2
3 4
7 9

12 15
16 18

6 10
11

Data Editor

Movie Explorer

Fig 3.1 shows user views Venn diagram

Requirements Specifications

Each field has a special explanation and relation with each other. As for the approach we will use to deal with our 3 user views, we figured out that the centralized approach suits as best. Since some views have common interests in the data. Not to mention, as it can be noticed, the database will not be that much complex relatively with others. These definitions along with possible effects will be demonstrated in the following data dictionary:

Data	Description
MOVIE	The movie is the base data that we build almost the rest of the data upon it. A movie's name, number, release year, profit, actors, awards and many other properties will be included.
name	• Each movie will have a distinct name (in most cases) • Data Type: VARCHAR(50)
number	• Can be considered as "Movie_ID" to be unique for each movie entry.
genre	• Each movie will belong to a genre which makes it of use for all the views. • Data Type: VARCHAR(50)
release year	• The release year of the movie to the public audience in the cinema theaters. • Data Type: YEAR
summary	• Each movie will have a plot summary that focuses on catching the attention of the watchers and help them getting the idea of the movie before watching without spoilers. • Data Type: TEXT
duration	• It specifies the duration of the movie. Useful for broadcast manager and can be edited by the data editor. • Data Type: VARCHAR(8), example: 1h30mins
country	• The country in which the movie's production company is based. • Data Type: VARCHAR(50)
soundtrack	• A link of the soundtrack used in the movie will be added to the music lovers to enjoy. This field is editable by the data editor. • Data Type: VARCHAR(1000)
similar movies	• Movies of the same genre or actors will be suggested to the movie explorers in case they want to try something alike they'd watched. In case of confusion, it can be linked with another "Movie_ID". • Data Type: VARCHAR(1000)
RATING	There are multiple types and resources for rating, however we focus mainly on two; IMDB and maturity rating. The rating of some movies may be similar.
IMDB rating	• This field is ideal for both broadcast managers and movie explorers as it it refers to the rating agreed by users of IMDB. It is usually rated out of 10. • Data Type: VARCHAR(3). Example : 2.3

Data	Description
maturity rating	• It matters for some watchers to check the maturity rating of a movie before watching. Particularly may concern the parents, editable by the data editor. • Data Type: VARCHAR(10)
ACTOR	• This field is for the fans of a particular actor or for when a platform wants to publish more movies of some actor. Data editor can edit this field. An actor can be in different movies. • Data Type: VARCHAR(100)
name	• Each actor will have a distinct name (in most cases) • Data Type: VARCHAR(50)
number	• Can be considered as "Actor_ID" to be unique for each movie entry.
MOVIE EXPLORER	This is one of the 3 views that will have some unique data stored in his profile.
movieexplorer_name	• Each movie explorer will have a distinct name (in most cases) • Data Type: VARCHAR(50)
movieexplorer_number	• Can be considered as "MovieExplorer_ID" to be unique for each movie entry.
movieexplorer_password	• A password must be entered to log in.
likes	• Where the movie explorer will tick (yes) like after watching the movie and finding out it is enjoyable and suited him. Otherwise, it will be null. • Data Type: BOOLEAN, can be null
dislikes	• Where the movie explorer will tick (yes) dislike after watching the movie and finding out it is not as expected or didn't suit him. Otherwise, it will be null. • Data Type: BOOLEAN, can be null
reviews	• Whenever a moviegoer wants to add a comment about a movie, they can add it to their profile. • Data Type: VARCHAR(1000)
watchlist	• This field shows whether a movie is added to the user's watchlist or not. If yes, it will be counted as a part of the "Watchlist-Counter" field. • Data Type: BOOLEAN, can be null
BROADCAST MANAGER	This is another one of the 3 views that will have other interest than that the movie explorer has.
profit	• An essential indicator for the movie to show whether it is successful or not to the channels and online platform community (broadcast manager). It can be edited by the data editor. • Data Type: INT
awards	• The series of awards earned by each movie (if any) is a good indication for the broadcast managers to figure out where it stands among others. • Data Type: VARCHAR(300)

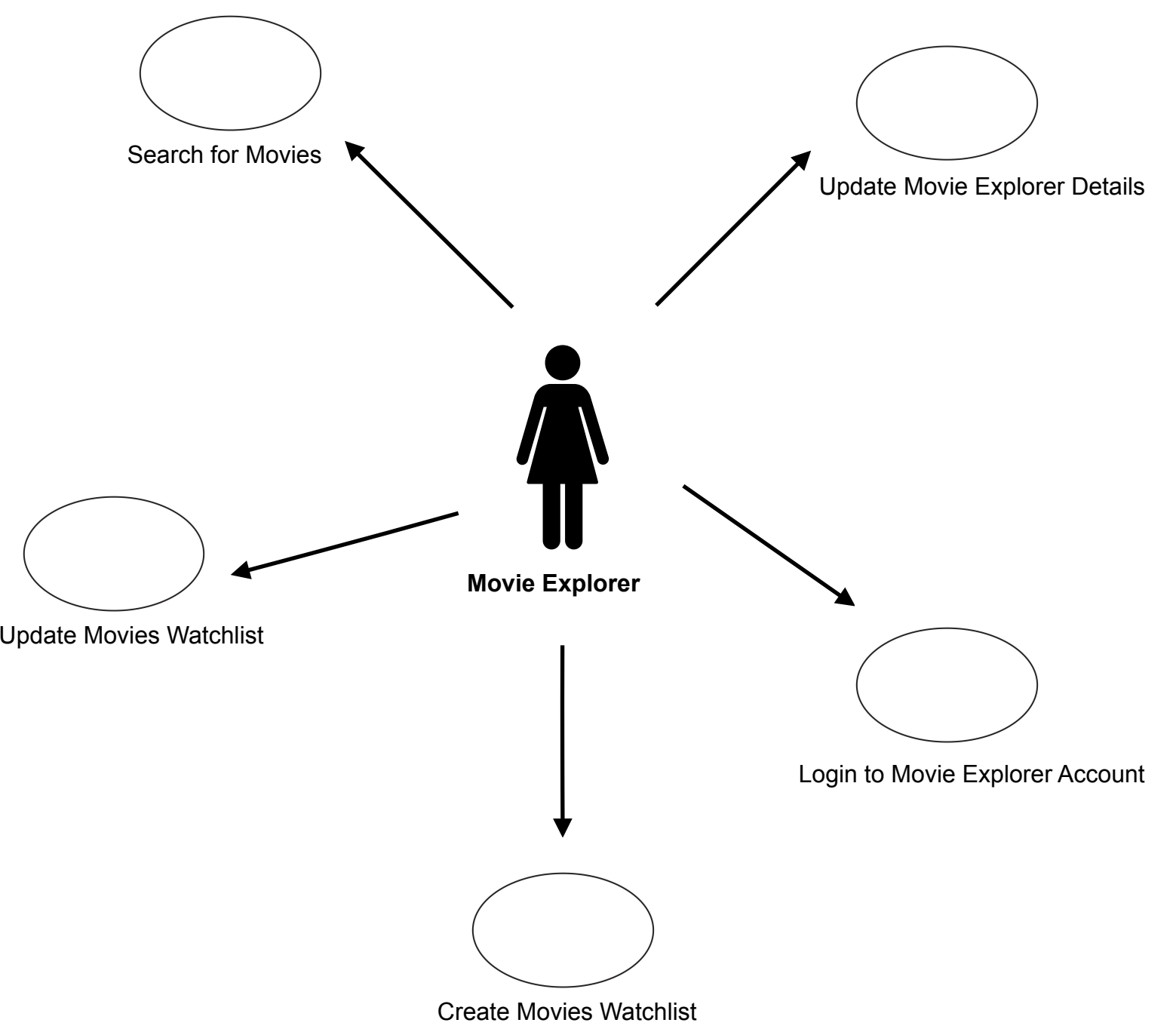| Data	Description
watchlist-counter	• It is calculated as the sum of how many people added a specific movie to their watchlist. Related to "Watchlist" field. Useful for broadcast manager. • Data Type: INT, can be null
DATA EDITOR	This is the last and one of the most effective views that serve mainly broadcast manager
name	• Each data editor will have a distinct name (in most cases) • Data Type: VARCHAR(50)
number	• Can be considered as "DataEditor_ID" to be unique for each movie entry.
email address	• The personal email address for the data editor. • Data Type: VARCHAR(50)

Assignment 3

• **NOTE**: Both Like and Dislike can't be ticked (having a value of yes), but can stay null.

	Name	Release Year	Genre	IMDB Rating	Profit	Maturity Rating
Data Editor	X	X	X	X	X	X
Broadcast Manager	X	X	X		X	
Movie Explorer	X	X	X			X

	Actors	Soundtrack	Country	Similar Movies	Summary	Reviews
Data Editor	X	X	X	X	X	
Broadcast Manager	X	X	X			
Movie Explorer	X	X	X	X	X	X

	Duration	Watchlist-Counter	Likes	Dislikes	Awards	Watchlist
Data Editor	X				X	
Broadcast Manager	X	X			X	
Movie Explorer			X	X		X

Search for Movies

Update Movie Explorer Details

Movie Explorer

Update Movies Watchlist

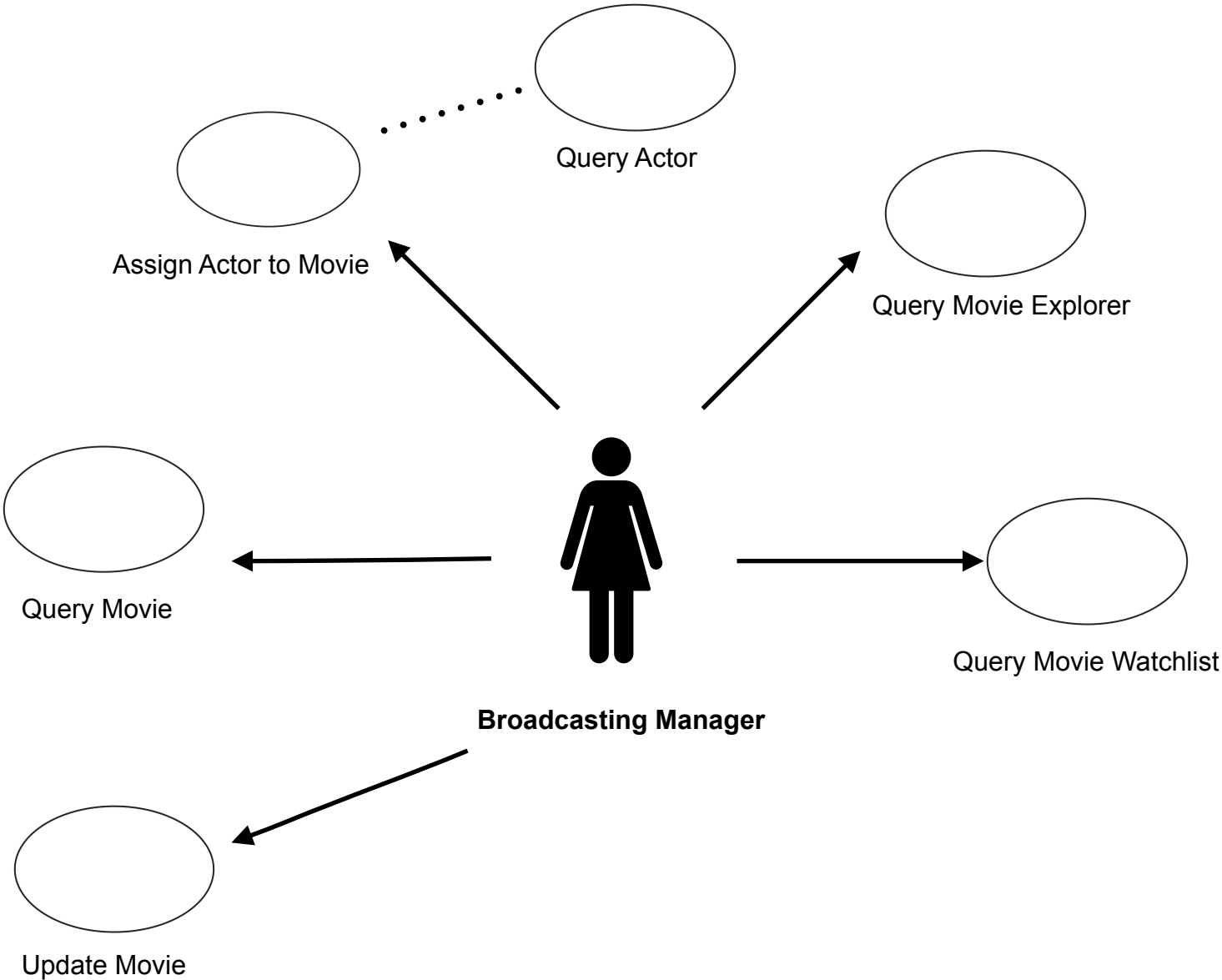Login to Movie Explorer Account

Create Movies Watchlist

Use case diagram for the Movie Explorer user view

Assignment 3

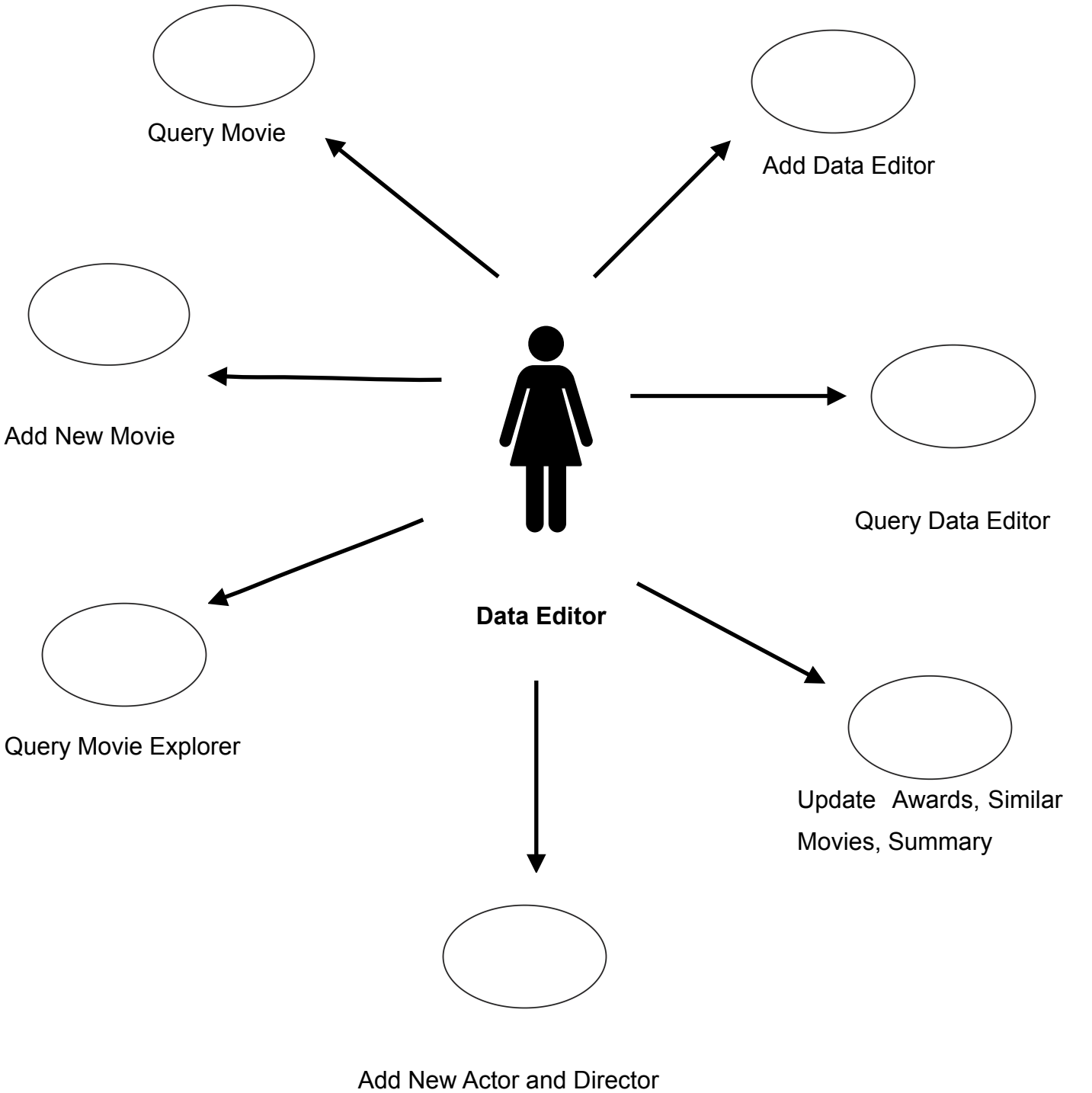| Movie Explorer	Descriptions
1. Search for Movies	To assist in the compilation of a watchlist, WOW for international movies web site provides a movie search facility including the ability to find a movie based on its title, main actors, and genre.
2. Update Movies Watchlist	A movie explorer can update the entries in his or her own movie watchlist.
3. Create Movies Watchlist	On completion of the online registration form, a new movie explorer is requested to identify the movies he or she watches to view, up to a maximum of 50 movies.
4. Login to Movie Explorer Account	A movie explorer email address/telephone number and password are requested whenever a moviegoer watches to access his or her account with WOW for international movies.
5. Update Movie Explorer Details	A movie explorer can update his or her on personal and login details.

Use case descriptions for the Movie Explorer user view

Query Actor

Assign Actor to Movie

Query Movie Explorer

Query Movie

Query Movie Watchlist

Broadcasting Manager

Update Movie

Use case diagram for the Broadcasting Manager user view

Assignment 3

Broadcasting Manager	Descriptions
1. Query Movie Explorer	To view movie explorer address details to post requested movie(s).
2. Query Movie Watchlist-Counter	Identifying movies that a movie explorer would like to watch.
3. Assign Actor to Movie	When a new movie record is created, one or more actors are assigned to a movie.
4. Query Actor	To view actor details.
5. Update Movie	To update movie details.
6. Query Movie	To view movie details.

Use case descriptions for the Broadcasting Manager user view

Assignment 3

Query Movie

Add Data Editor

Add New Movie

Query Data Editor

Data Editor

Query Movie Explorer

Update Awards, Similar Movies, Summary

Add New Actor and Director

Use case diagram for the Data Editor user view

Data Editor	Descriptions
1. Add Data Editor	To create a record for each member of data editor. Each member of data editor is identified using a data editor number, name and email.
2. Query Data Editor	To view data editor details.
3. Update Awards, Similar Movies, Summary	To update movie details that may change over time.
4. Query Movie Explorer	To view movie explorer details.
5. Query Movie	To view movie details.
6. Add New Movie	The data editor can add new movies to be visible for the other users in the system
7. Add New Actors and Directors	The data editor has the ability to add and assign new actors and directors with present movies.

Use case descriptions for the Data Editor user view

Directed by,