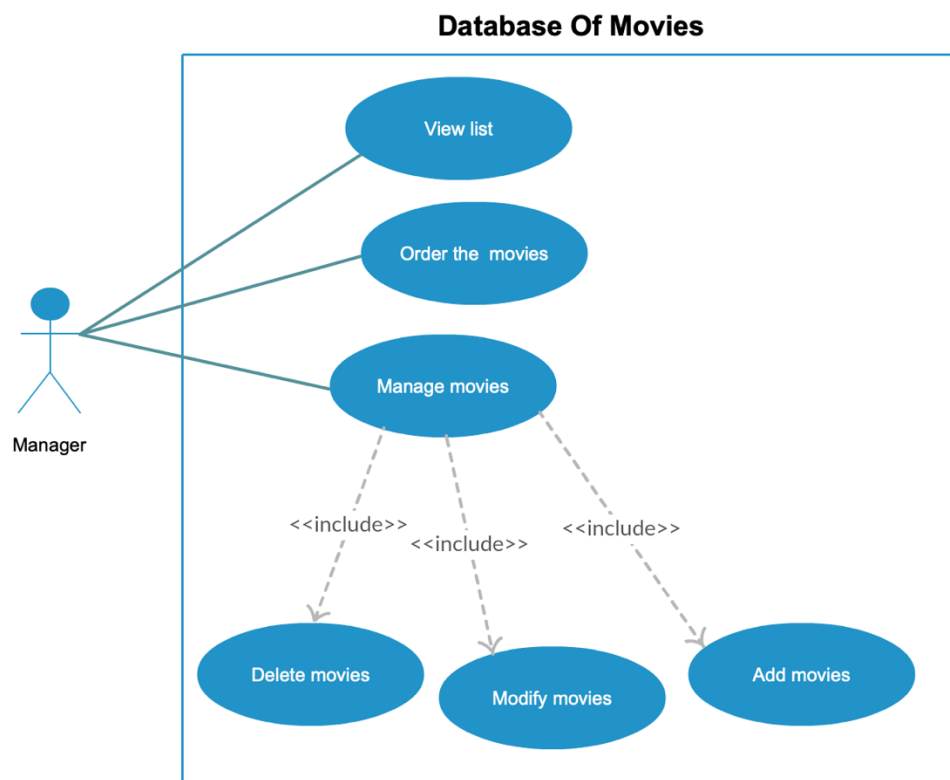# Homework specification

General Information:

Project Title: database of movies

Describe Of Project:

- Store at least the title, director and year of each movie
- Be able to add, delete and modify movies
- Be able to order the movies by title, director or year
- Have a graphical user interface
- Be able to save and load the list of movies from files

Use-Case Diagrams And The Descriptions Of The Use-Cases

Use case diagram:

Database Of Movies

Describe of the use case:

Title	View list
Description	The manger views what movies are on the list
Actors	Manager
Main success scenario	**1.** The system load the file of movies list **2.** The manager see the list which may ordered by some rules.

Title	Order the movies
Description	The manager orders movies by title, director or year
Actors	Manager
Main success scenario	**1.** The system load the file of movies list **2.** Create a new list ordered by some rules.

Title	Manage movies
Description	The manger manage movies in the database
Actors	Manager
Main success scenario	**1.** The manager add, delete or modify movies

Title	Add movies
Description	The manger adds movies to the database
Actors	Manager
Main success scenario	**1.** The manager add movies **2.** The system save the new data to file

Title	Delete movies
Description	The manger deletes movies from the database
Actors	Manager
Main success scenario	**1.** The manager delete movies **2.** The system save the new list to file
Alternate scenario	**1.A** The manager deletes a movie from the database
Alternate scenario	**1.B** If there is not such a movie in database, then send error

Title	Modify movies
Description	The manger modifies movies in the database
Actors	Manager
Main success scenario	**1.** The manager modify movies **2.** The system save the new list to file
Alternate scenario	**1.A** The manager modifies a movie in the database
Alternate scenario	**1.B** If there is not such a movie in database, then send error

a) Swing-based GUI
   i. either a menu bar and one of the classes: JTable, JTree, JComboBox
   ii. or using low-level graphics routines (Graphics class)
b) Collections framework
c) File output and input using Java serialization
d) Unit tests (JUnit)

With the requirement of homework,
1. I will create a GUI (using Swing-base) which can fulfil the case which showed front.
2. I will use Collections framework, to identity the movies like input the name of movies, it will show the data of movie
3. Save the database and load the database using java serialization
4. Using Junit to test my project