

# Relational Schema

Movies (Title, Duration, Release Date, Rating, Company, Genre, Adapted From, Investment Amount, Box Office, Stage Photos, DirectorName)

Actors (AName, Gender, Nationality, Birthday, Photo)

Directors (DName, Gender, Nationality, Birthday, Photo)

Cast (MovieTitle, ActorName)

## Functional Dependencies:

Title -> Duration, Release Date, Rating, Company, Genre, Adapted From, Investment Amount, Box Office, Stage Photos, DirectorName

AName, Nationality, Birthday -> Gender, Photo

DName, Nationality, Birthday -> Gender, Photo

# Databases and Software Platforms/Languages

Databases: MySQL

Language: React, Django

# Data Acquisition

Using R and Python to crawl the movie information on the IMDB and Rotten Tomato website ([www.imdb.com](http://www.imdb.com), [www.rottentomatoes.com](http://www.rottentomatoes.com))

# Labor Division

FE = Frontend Web Development

BE = Backend Web Development

Database work will be split fairly evenly, as outlined below:

1. Shuiling Yu: FE 55% BE 45%

2. Yekai Chen: FE 50% BE 50%

3. Zheyang Lu: FE 30% BE 70%

4. Chin-Han Lin: FE 20% BE 80%

# Project Timeline

Setup Development Environment - 2019/03/05

- Data Acquisition - 2019/02/24
- Data preprocessing - 2019/03/03

Initial Demo - 2019/03/30

- Frontend and backend development

Final Demo and Report - 2019/04/19

- Application improvement - 2019/04/08
- Data analysis - 2019/04/14
- Final report and video demo - 2019/04/19