Project: Movie Recommendation System

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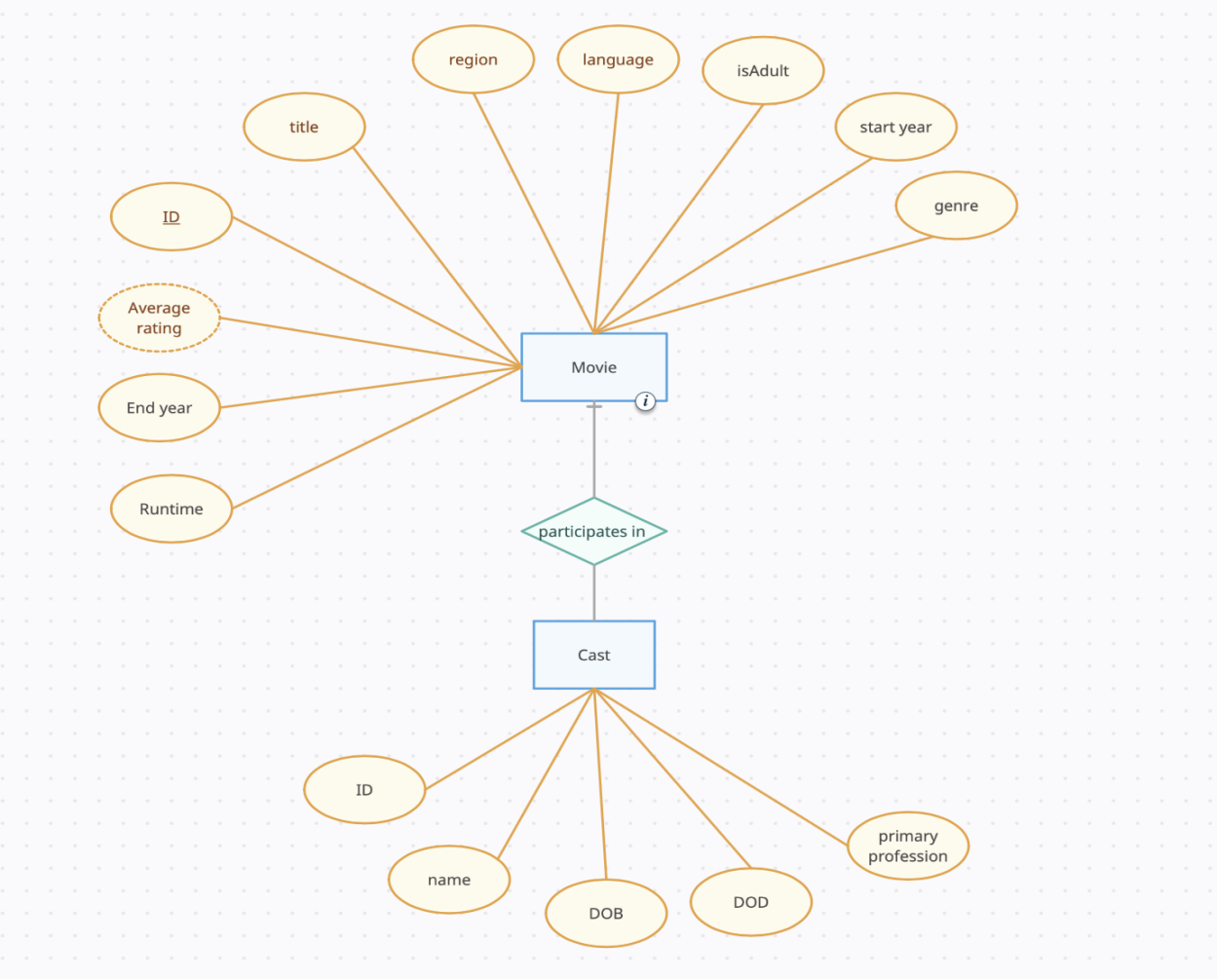
Tentative ER Schema



Relational Schema

```
-- Create movies table
CREATE TABLE movies (
    movieID INT PRIMARY KEY,
    genre VARCHAR(255),
    runtime INT,
    region VARCHAR(255),
    isAdult BOOLEAN,
    language VARCHAR(255),
    averageRating FLOAT,
    startYear INT,
    title VARCHAR(255),
    endYear INT
);

-- Create cast table
CREATE TABLE cast (
    castID INT PRIMARY KEY,
```

```
    primaryProfession VARCHAR(255),
    dateOfBirth DATE,
    dateOfDeath DATE,
    name VARCHAR(255)
);
-- Create ratings table
CREATE TABLE ratings (
    movieID INT,
    averageRating FLOAT,
    FOREIGN KEY (movieID) REFERENCES movies(movieID)
);
-- Create participates table to represent the many-to-many relationship between movies and cast members
CREATE TABLE participates (
    movieID INT,
    castID INT,
    PRIMARY KEY (movieID, castID),
    FOREIGN KEY (movieID) REFERENCES movies(movieID),
    FOREIGN KEY (castID) REFERENCES cast(castID)
);
```

Roles For Phase 3

Admire:

- Complete the conversion of the ER schema into the relational schema, ensuring that it is in a normal form.
- Create and populate the database and the tables needed for our project;

Taku:

- Devise (preliminary) example SQL queries that showcase the different ways that the user would interact with your database;

Josue

- Ensure that the server has all the necessary software for the database
- Begin implementing the end-user interface

Software Installed

- PostgreSQL
- Microsoft Visual Studio(for HTML, CSS, Javascript)- to come
- Django-to come

Open Questions/ Issues

1. The IMDB database has LOTS of missing data; Do we get rid of some columns or do we find a new dataset?
2. Recommending an actual movie might be too complicated; If we continue with this as our goal, are we going to incorporate machine learning models for movie recommendations?
3. If we change our goal, what's the minimal thing that our website can do but still being unique and different from the already existing websites?