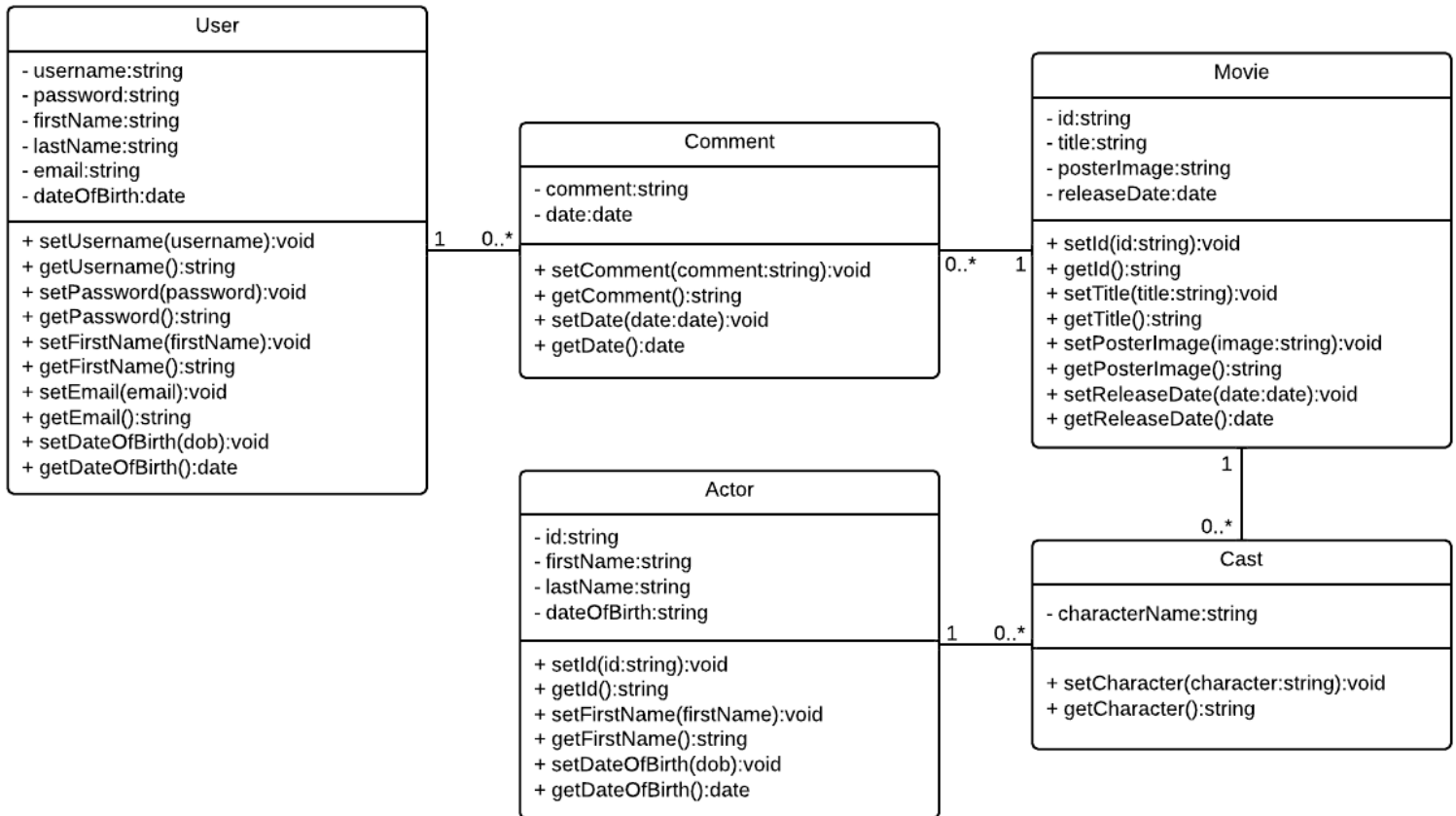


JPA Assignment

Consider the following class diagram:



(25pts.) Implement the following entity classes. Use appropriate JPA annotations. Change data types where appropriate.

1. User.java
 - a. int id
 - b. String username
 - c. String password
 - d. String firstName
 - e. String lastName
 - f. String email
 - g. Date dateOfBirth
 - h. List<Review> reviews
2. Movie.java
 - a. int id
 - b. String title
 - c. String posterImage

- d. Date releaseDate
 - e. List<Cast> cast
 - f. List<Reviews> reviews
- 3. Review.java
 - a. int id
 - b. String comment
 - c. int stars
 - d. Date dateCommented
 - e. Movie movieReviewed
 - f. User reviewer
- 4. Actor.java
 - a. int id
 - b. String firstName
 - c. String lastName
 - d. Date dateOfBirth
 - e. List<Cast> moviesIn
- 5. Cast.java
 - a. int id
 - b. Movie movieActedIn
 - c. Actor actorInMovie
 - d. String character
 - e. Date dateActedInMovie

Using JPA Code First technique described in class fully implement a data access object that implements the methods listed below. Feel free to use example source code discussed in class. Change the method signatures or add new methods as needed:

- 1. (15pts.) User
 - a. void createUser(User newUser);
 - b. List<Review> getReviewsForUser(int userId)
 - c. void addReviewForMovie(int userId, int movieId, Review review)
- 2. (15pts.) Review
 - a. void createReview(int userId, int movieId, Review review)
 - b. Review getReview(int reviewId)
 - c. void updateReview(int reviewId, Review review)
 - d. void deleteReview(int reviewId)
- 3. (15pts.) Movie
 - a. List<Movie> listAllMovies()
 - b. List<Review> getReviewsForMovie(int movieId)
 - c. List<Cast> getCastForMovie(int movieId)
- 4. (15pts.) Cast
 - a. void createCast(int actorId, int movieId, Cast cast)
 - b. Cast getCast(int castId)
 - c. List<Cast> getCastForMovie(int movieId)
 - d. void changeCharacterForCast(int castId, String newCharacter)

5. (15pts.) Actor

- a. void createActor(Actor newActor)
- b. List<Actor> getAllActors()
- c. List<Cast> getCastForActor(int actorId)
- d. List<Movie> getMoviesForActor(int actorId)