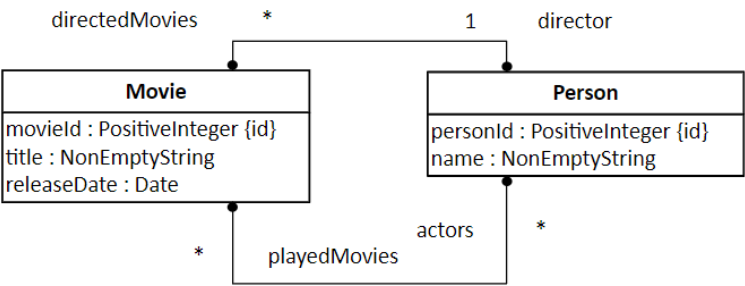


Design model:



OO class model:

Movie	Person
<code>movieId[1]: PositiveInteger{id}</code> <code>title[1]: NonEmptyString</code> <code>releaseDate[1]: Date</code> <code>director[1]: Person</code> <code>actors[*]: Person</code>	<code>personId[1]: PositiveInteger{id}</code> <code>name[1]: NonEmptyString</code> <code>/directedMovies: Movie {inverse of Person}</code> <code>/playedMovies: Movie {inverse of Person}</code>

JavaScript class model:

Movie
<code><<set/get>> movieId[1]: Number(int){id}</code> <code><<set/get>> title[1]: String</code> <code><<set/get>> releaseDate[1]: Date</code> <code><<set/get>> director[1]: Person</code> <code><<set/get>> actors[0..*]: Person</code>
<code><u>checkMovieId(in movieId: Integer): ConstraintViolation</u></code> <code><u>checkMovieIdAsId(in movieId: Integer): ConstraintViolation</u></code> <code><u>checkMovieIdAsIdAsRef(in movieId: Integer): ConstraintViolation</u></code> <code><u>checkTitle(in title: String):ConstraintViolation</u></code> <code><u>checkReleaseDate(in releaseDate: Date): ConstraintViolation</u></code> <code><u>checkDirector(in d: Person): ConstraintViolation</u></code> <code><u>checkActors(in a: Person): ConstraintViolation</u></code> <code>addActor(in actor: Person)</code> <code>removeActor(in actor: Person)</code>

Person
<code><<set/get>> personId[1]: Number(int){id}</code> <code><<set/get>> name[1]: String</code>
<code><u>checkPersonId(in personId: Integer): ConstraintViolation</u></code> <code><u>checkPersonIdAsId(in personId: Integer): ConstraintViolation</u></code> <code><u>checkPersonIdAsIdRef(in personId: Integer): ConstraintViolation</u></code> <code><u>checkName(in name: String):ConstraintViolation</u></code>