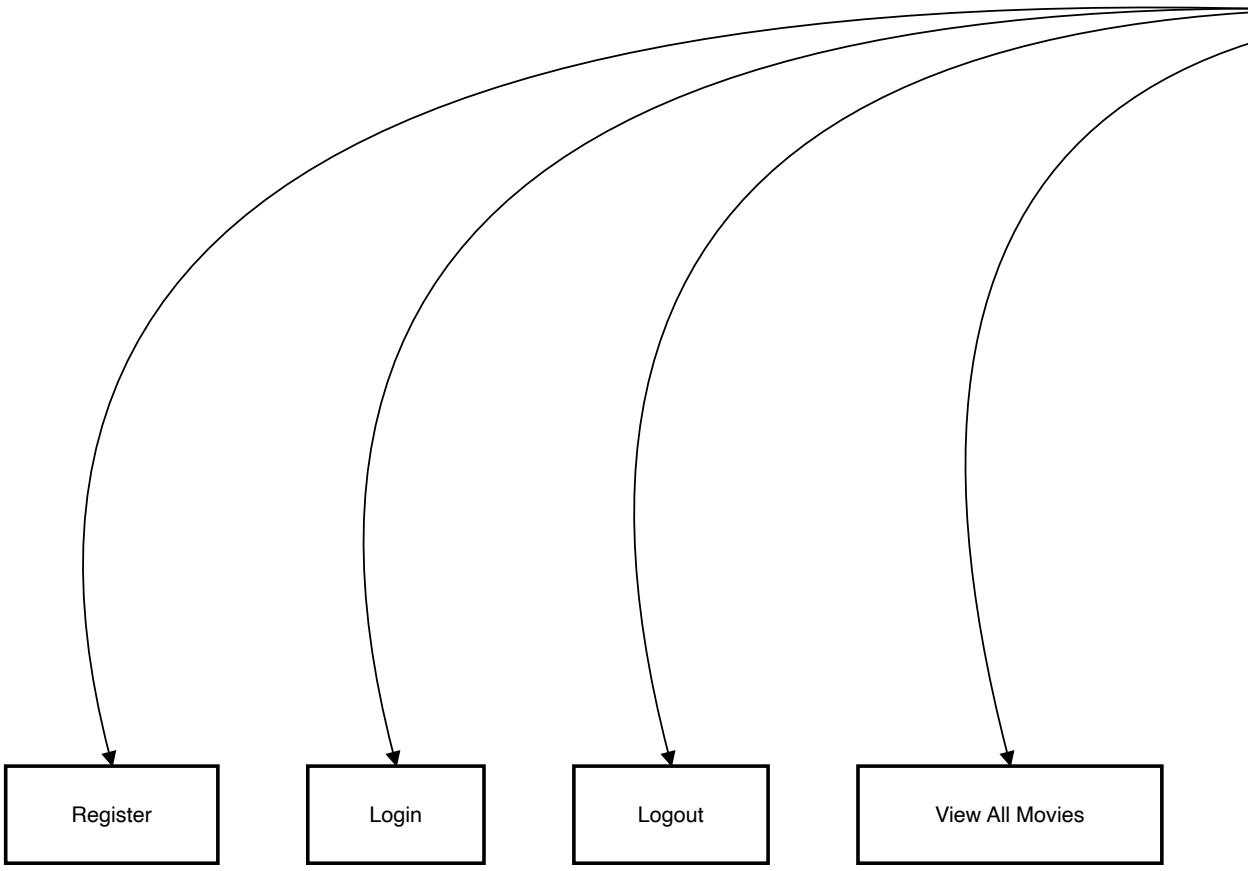
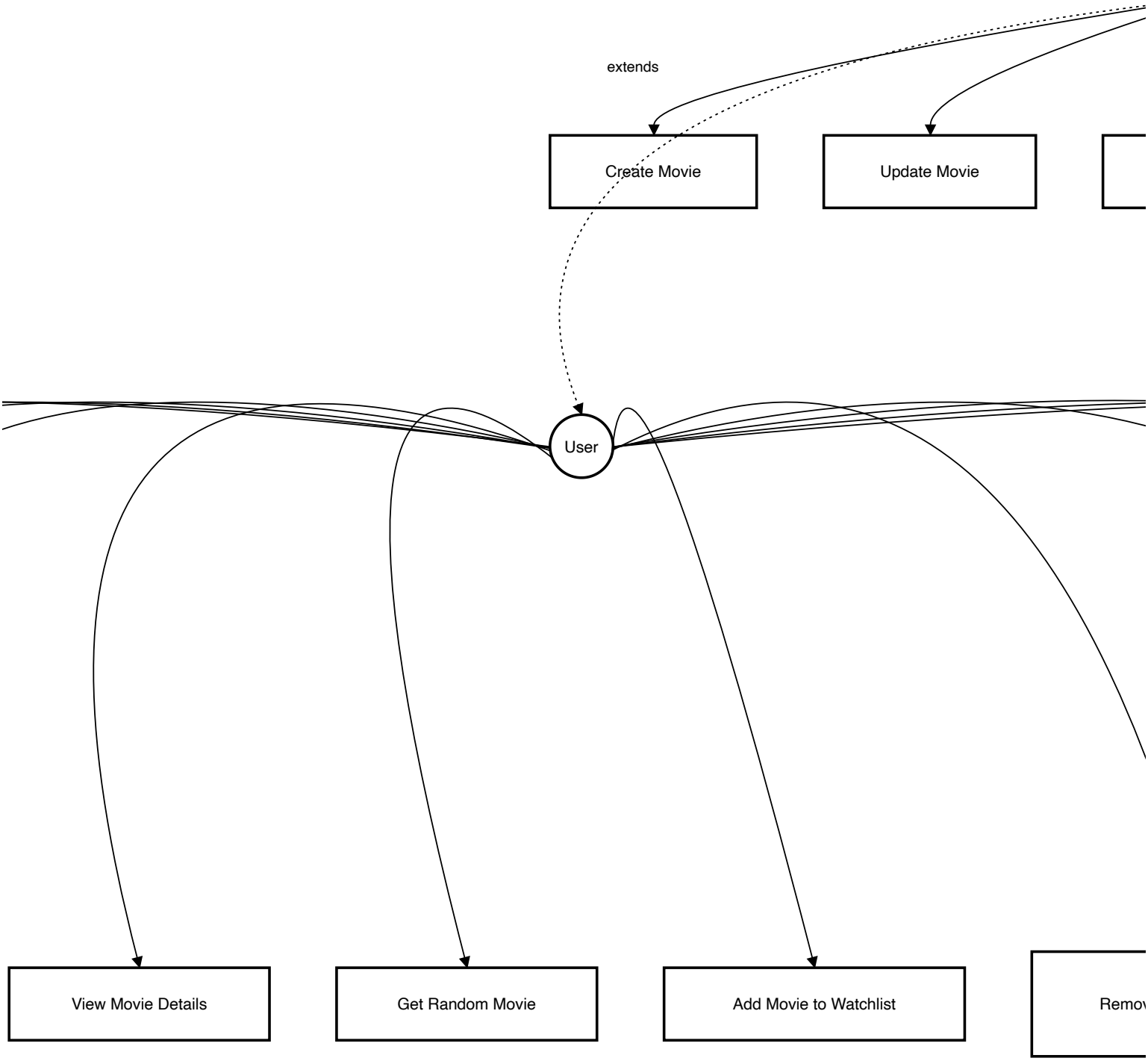
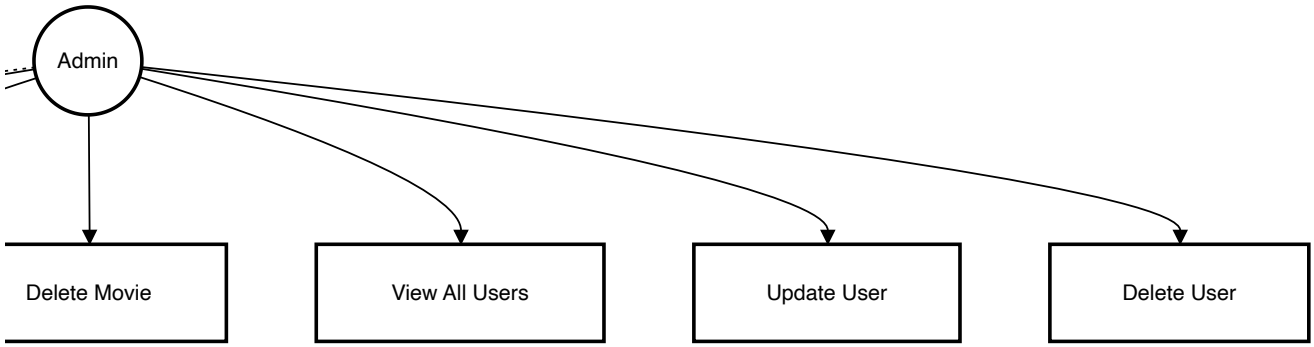
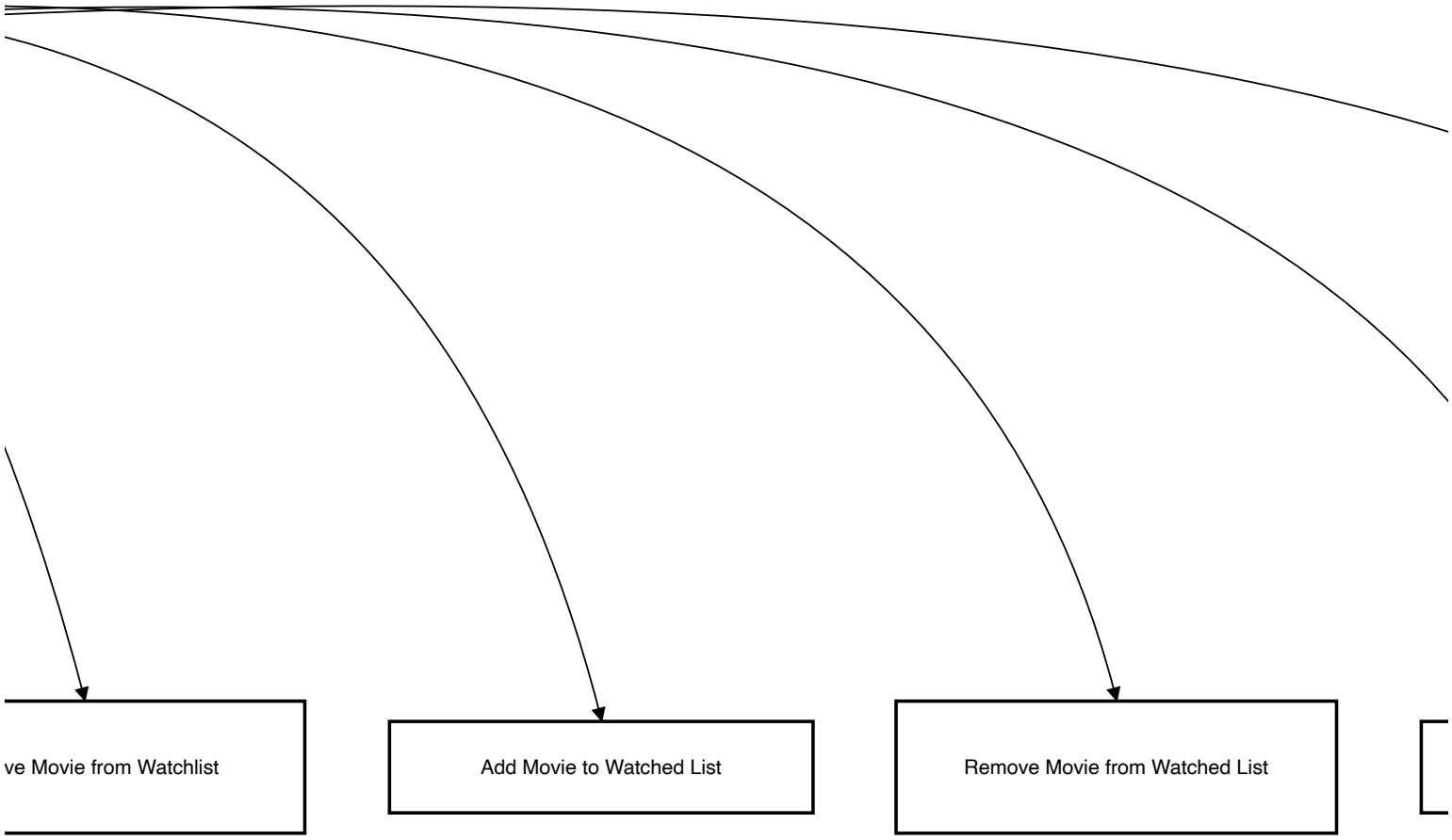
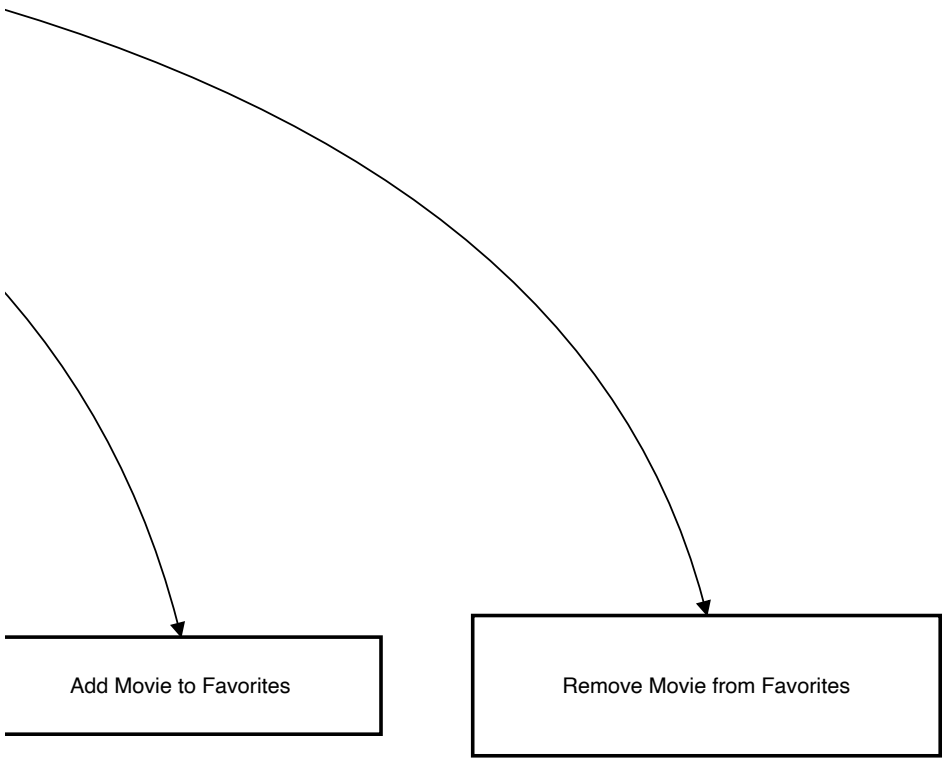
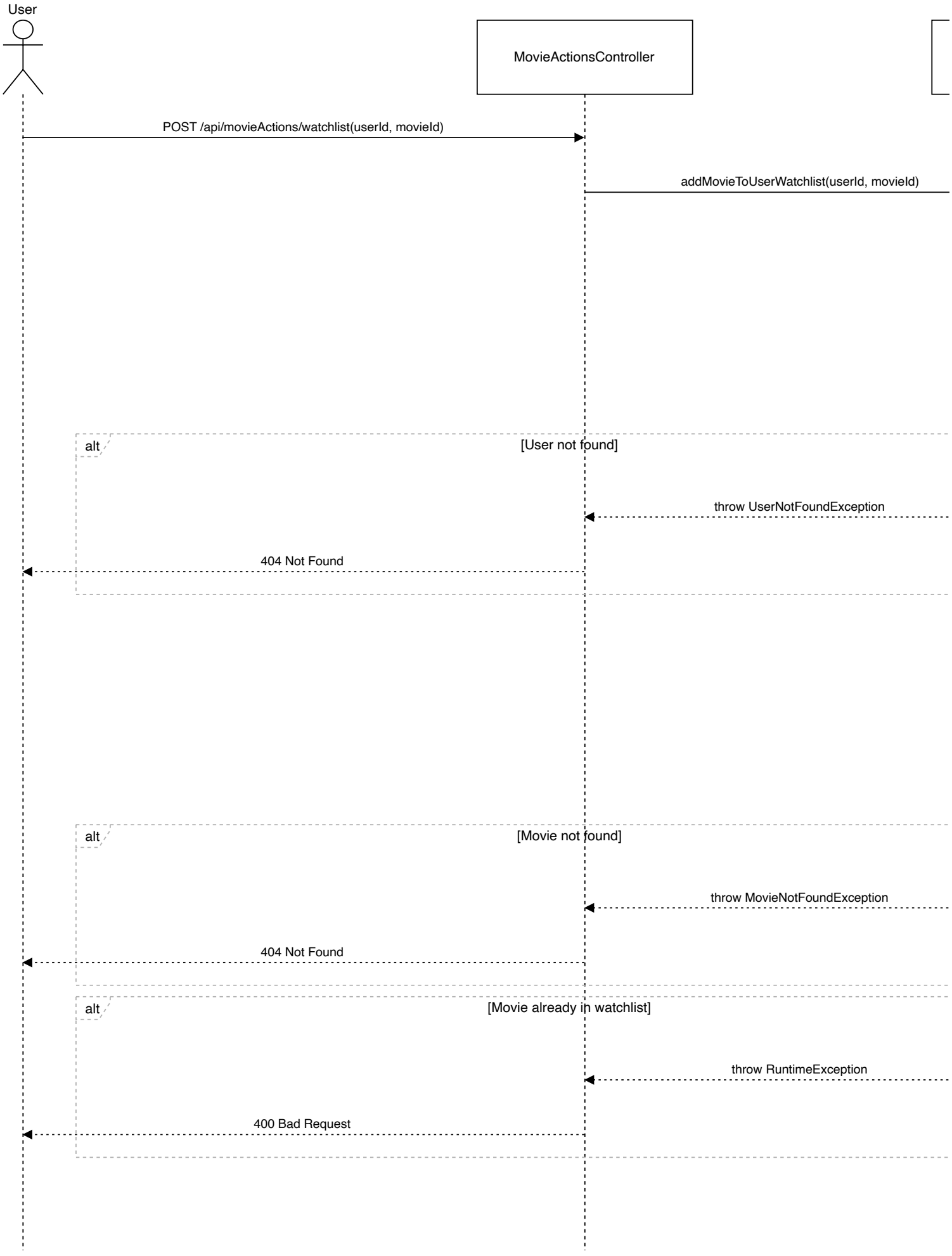

Register
Login
Logout
View All Movies

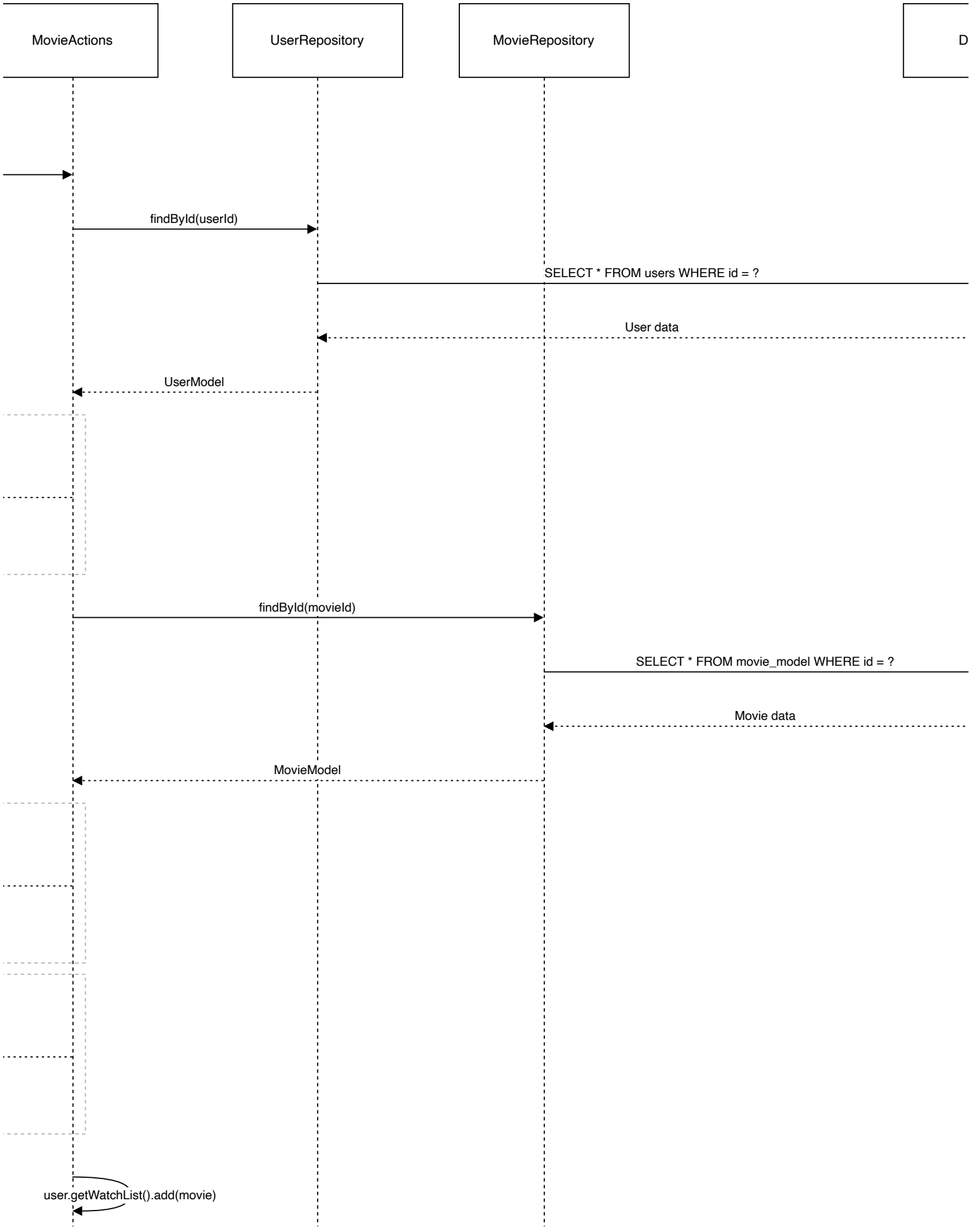

extends
Create Movie
Update Movie
User
View Movie Details
Get Random Movie
Add Movie to Watchlist

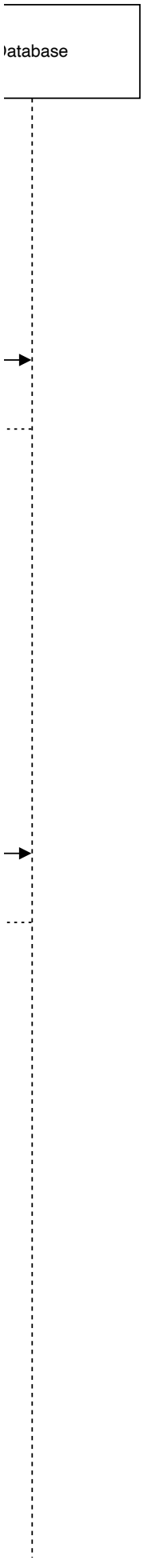

Admin
Delete Movie
View All Users
Update User
Delete User

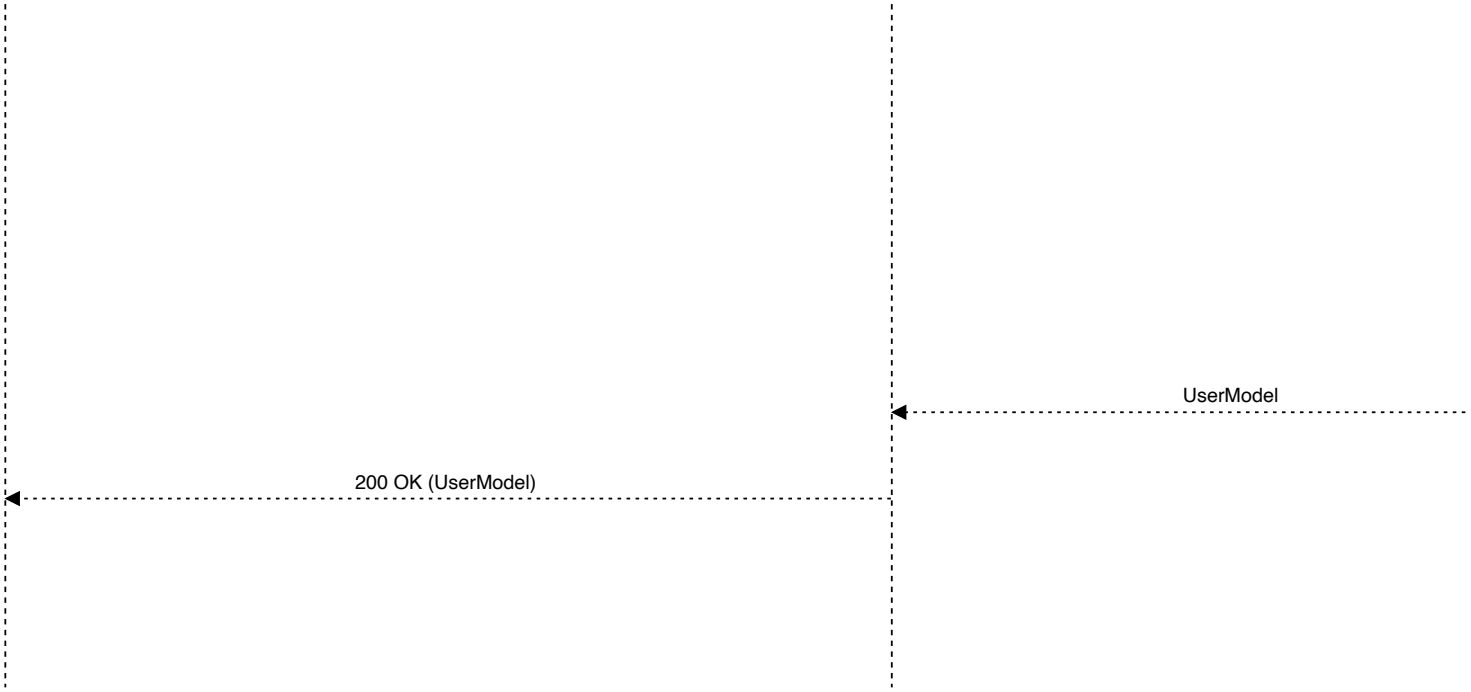

ve Movie from Watchlist
Add Movie to Watched List
Remove Movie from Watched List

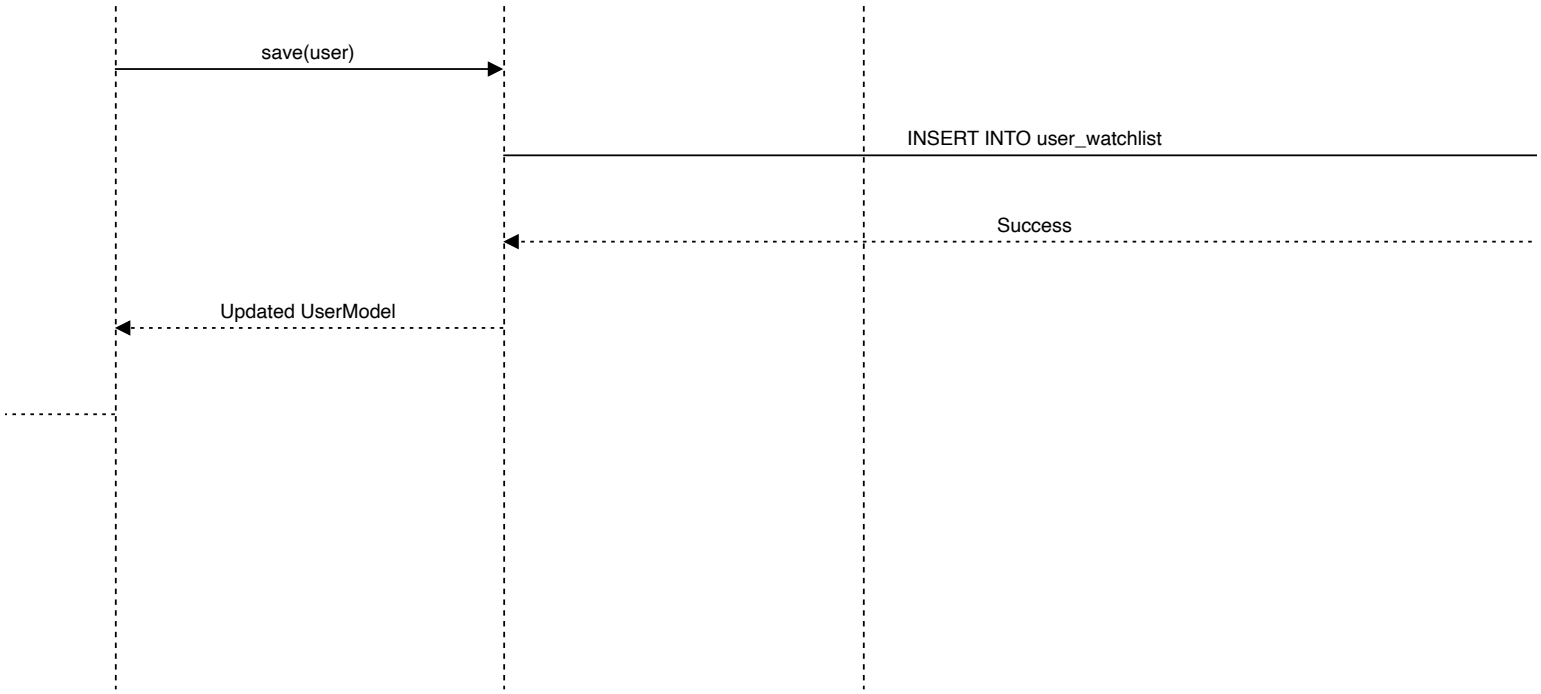

Add Movie to Favorites
Remove Movie from Favorites

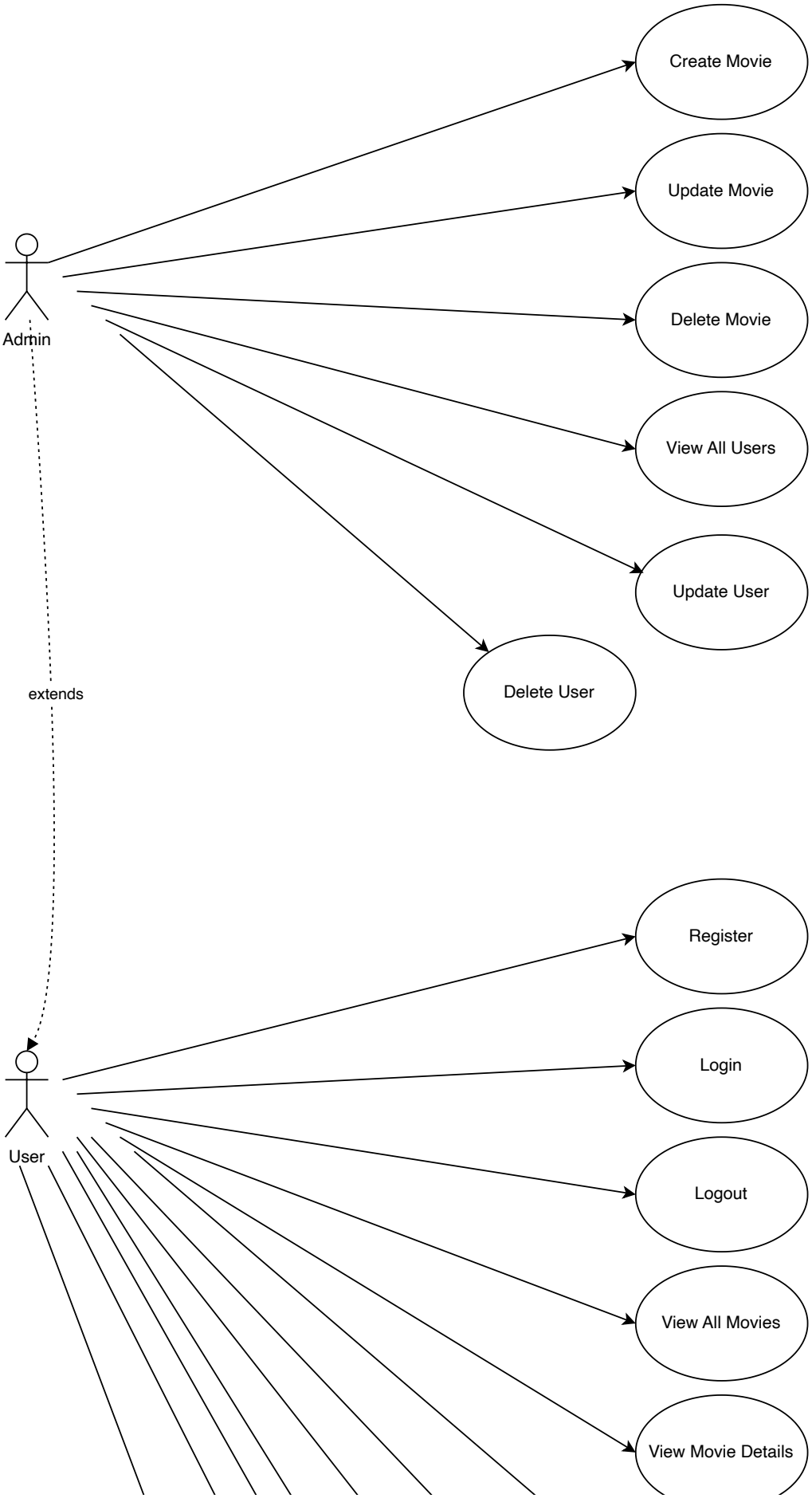

User
MovieActionsController
POST /api/movieActions/watchlist(userId, movieId)
addMovieToUserWatchlist(userId, movieId)
alt
[User not found]
throw UserNotFoundException
404 Not Found
alt
[Movie not found]
throw MovieNotFoundException
404 Not Found
alt
[Movie already in watchlist]
throw RuntimeException
400 Bad Request

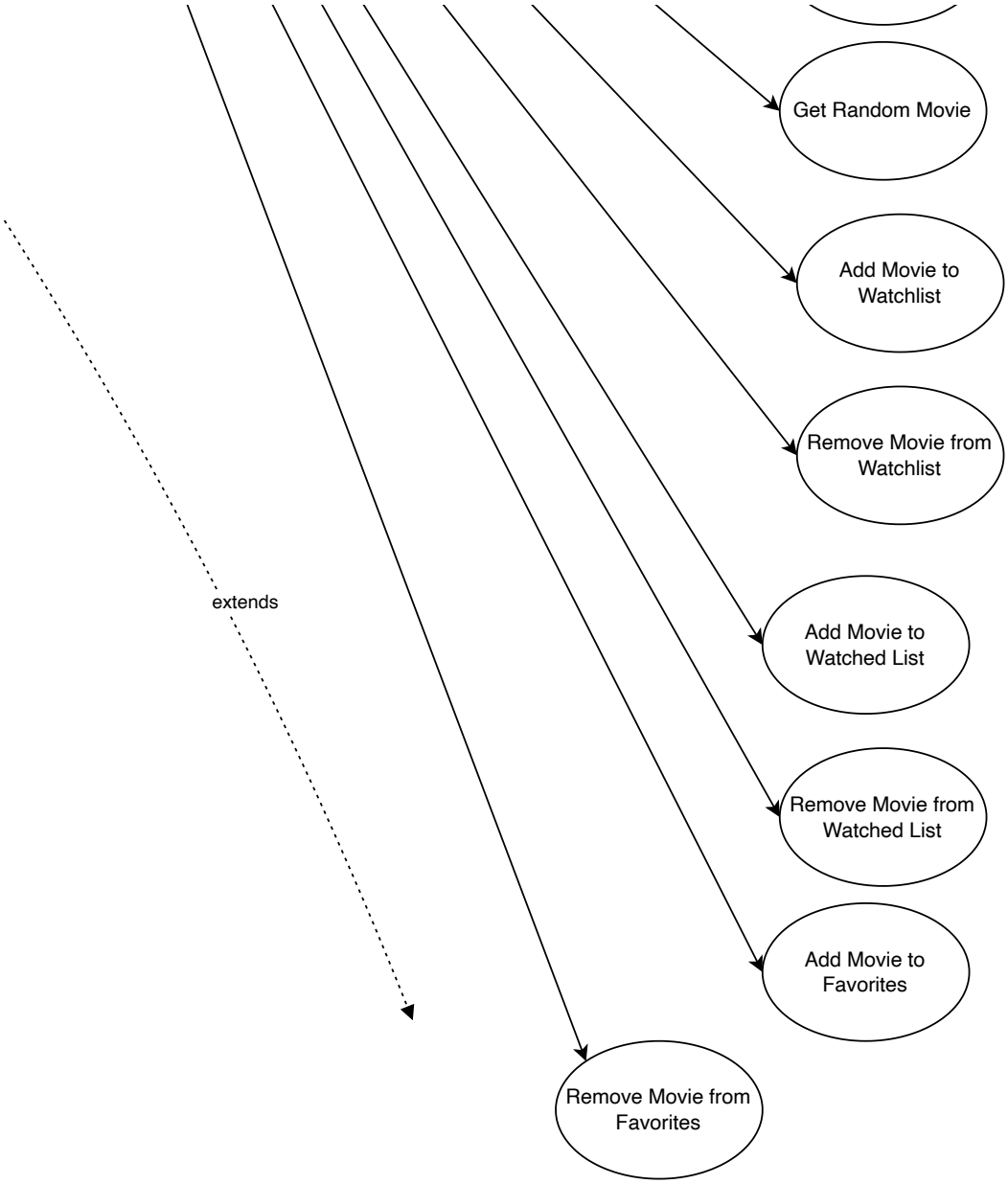

MovieActions
UserRepository
MovieRepository
D
findById(userId)
SELECT * FROM users WHERE id = ?
User data
UserModel
findById(movieId)
SELECT * FROM movie_model WHERE id = ?
Movie data
MovieModel
user.getWatchList().add(movie)

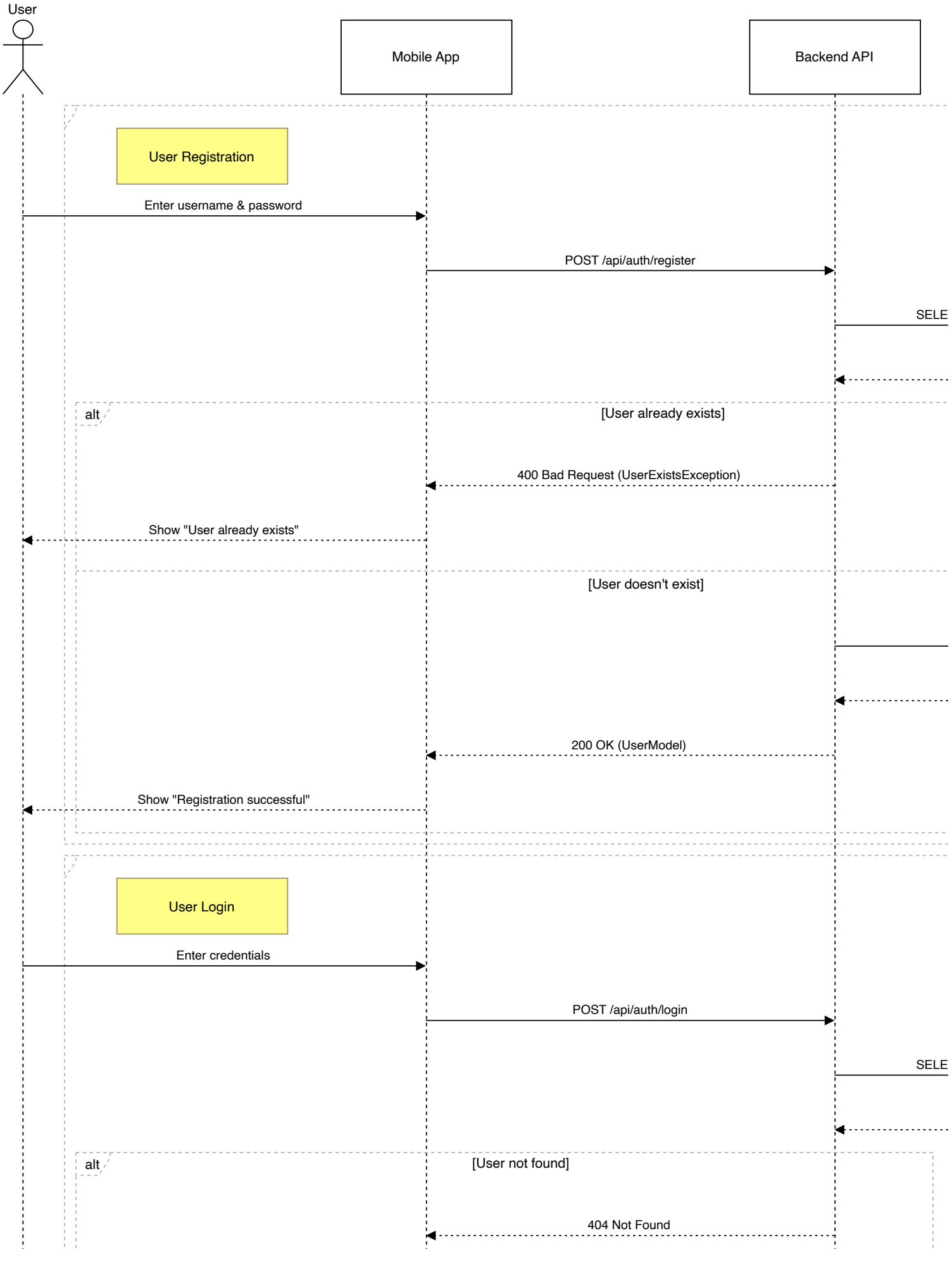

atabase

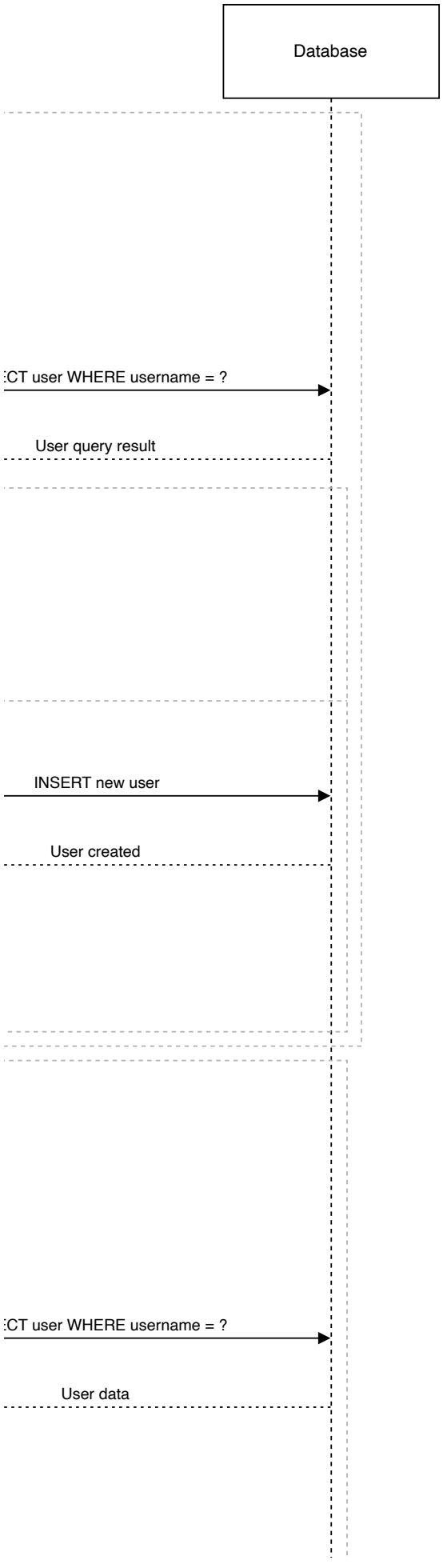

UserModel
200 OK (UserModel)

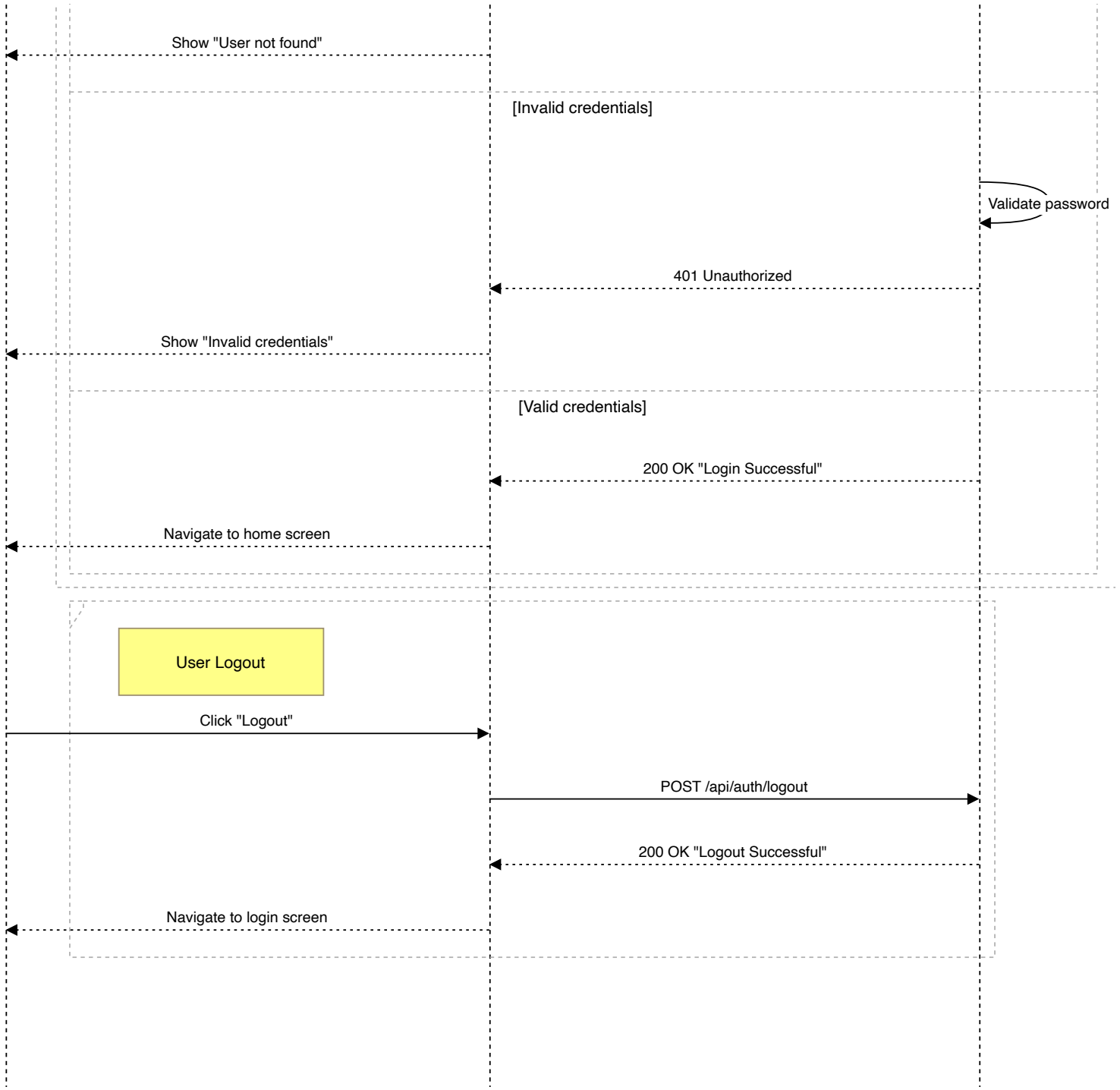

save(user)
INSERT INTO user_watchlist
Success
Updated UserModel

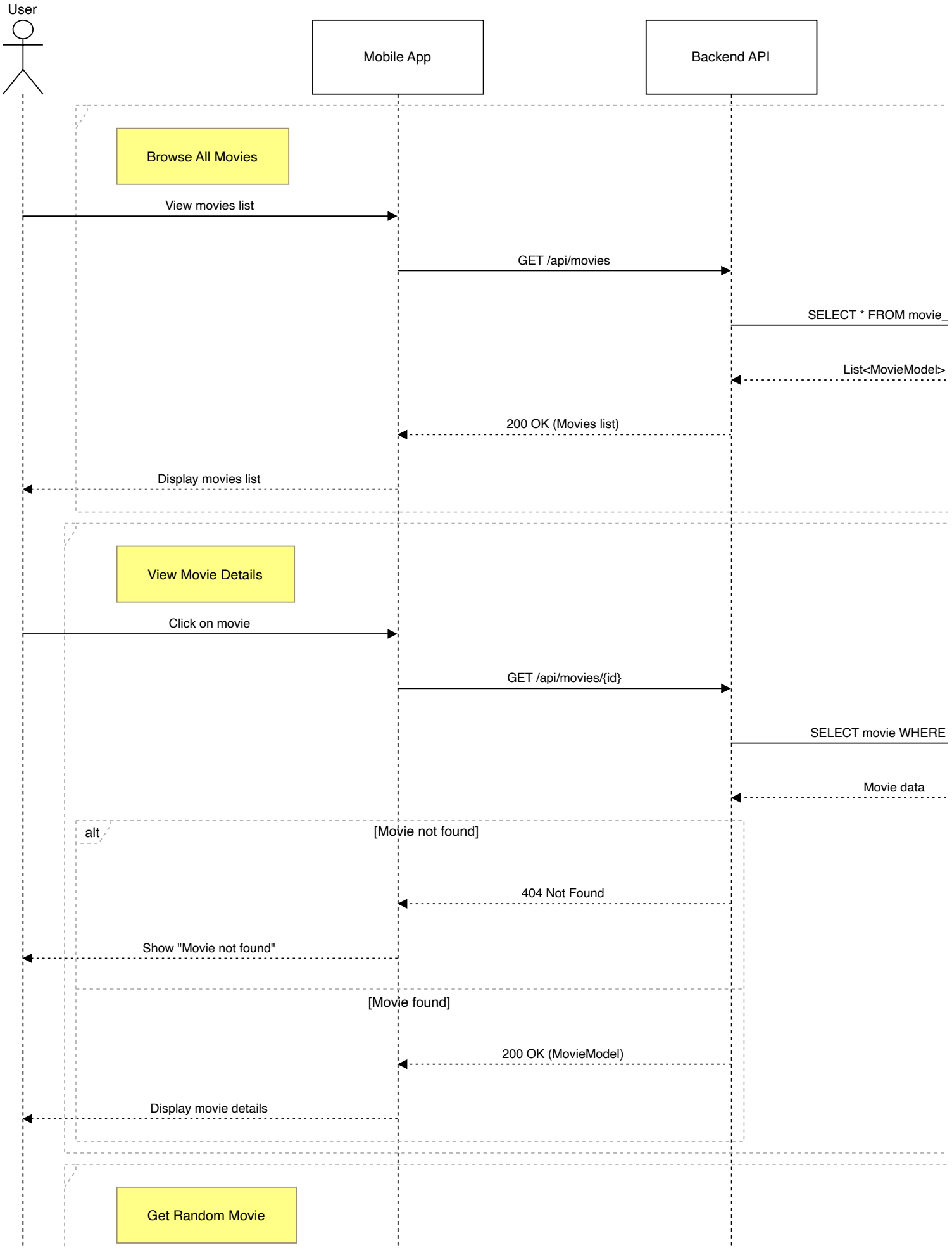

Create Movie
Update Movie
Admin
Delete Movie
View All Users
Update User
Delete User
extends
Register
Login
User
Logout
View All Movies
View Movie Details

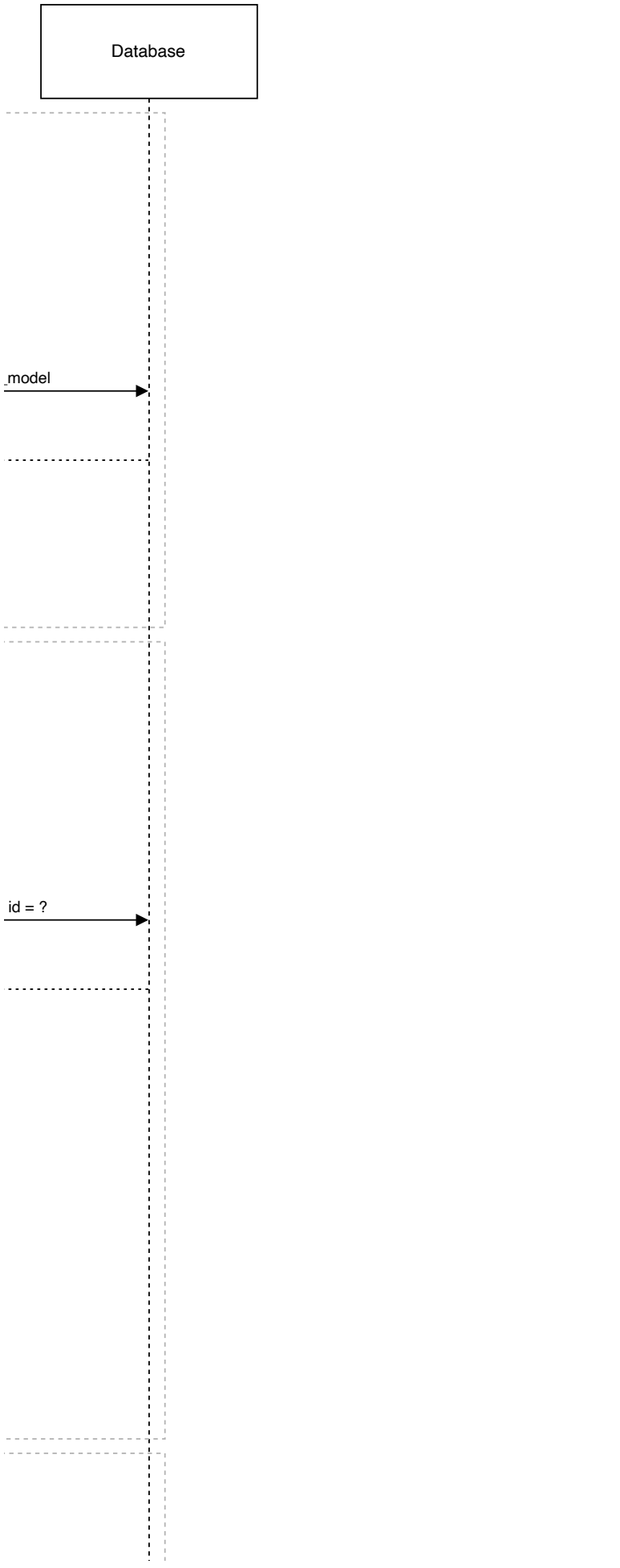

Get Random Movie
Add Movie to Watchlist
Remove Movie from Watchlist
extends
Add Movie to Watched List
Remove Movie from Watched List
Add Movie to Favorites
Remove Movie from Favorites

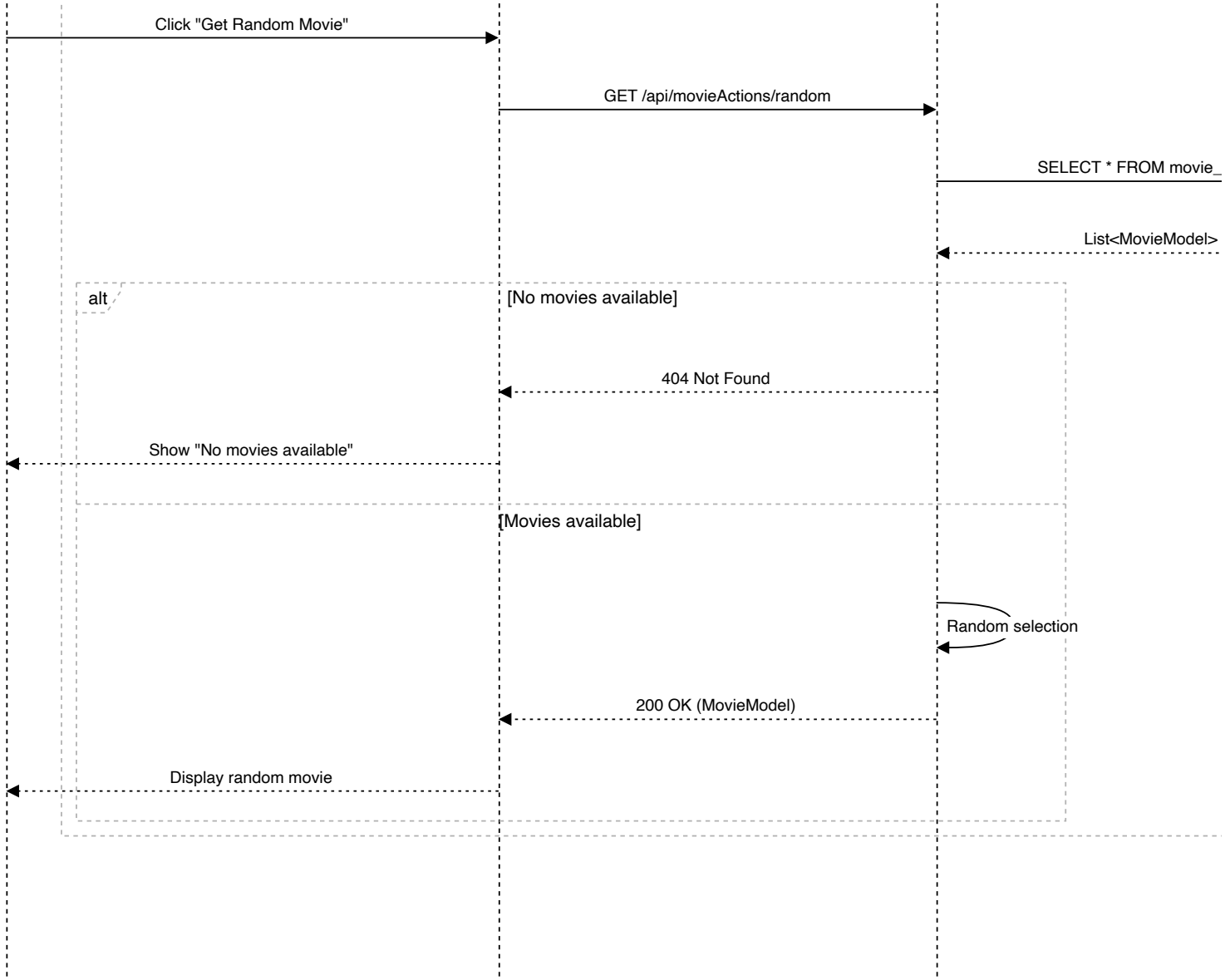

User
Mobile App
Backend API
User Registration
Enter username & password
POST /api/auth/register
SELE
alt
[User already exists]
400 Bad Request (UserExistsException)
Show "User already exists"
[User doesn't exist]
200 OK (UserModel)
Show "Registration successful"
User Login
Enter credentials
POST /api/auth/login
SELE
alt
[User not found]
404 Not Found


Database
CT user WHERE username = ?
User query result
INSERT new user
User created
CT user WHERE username = ?
User data

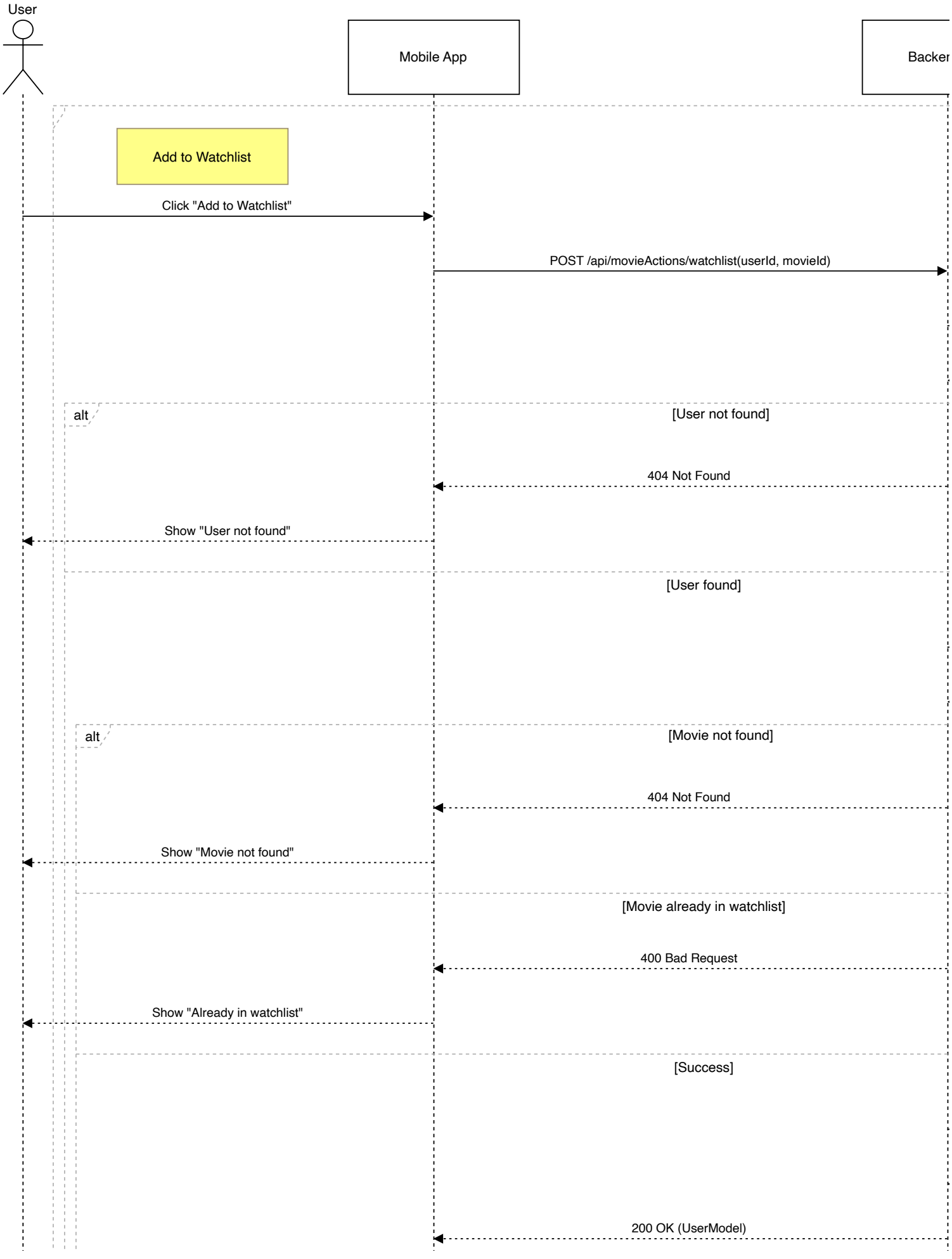

Show "User not found"
[Invalid credentials]
Validate password
401 Unauthorized
Show "Invalid credentials"
[Valid credentials]
200 OK "Login Successful"
Navigate to home screen
User Logout
Click "Logout"
POST /api/auth/logout
200 OK "Logout Successful"
Navigate to login screen

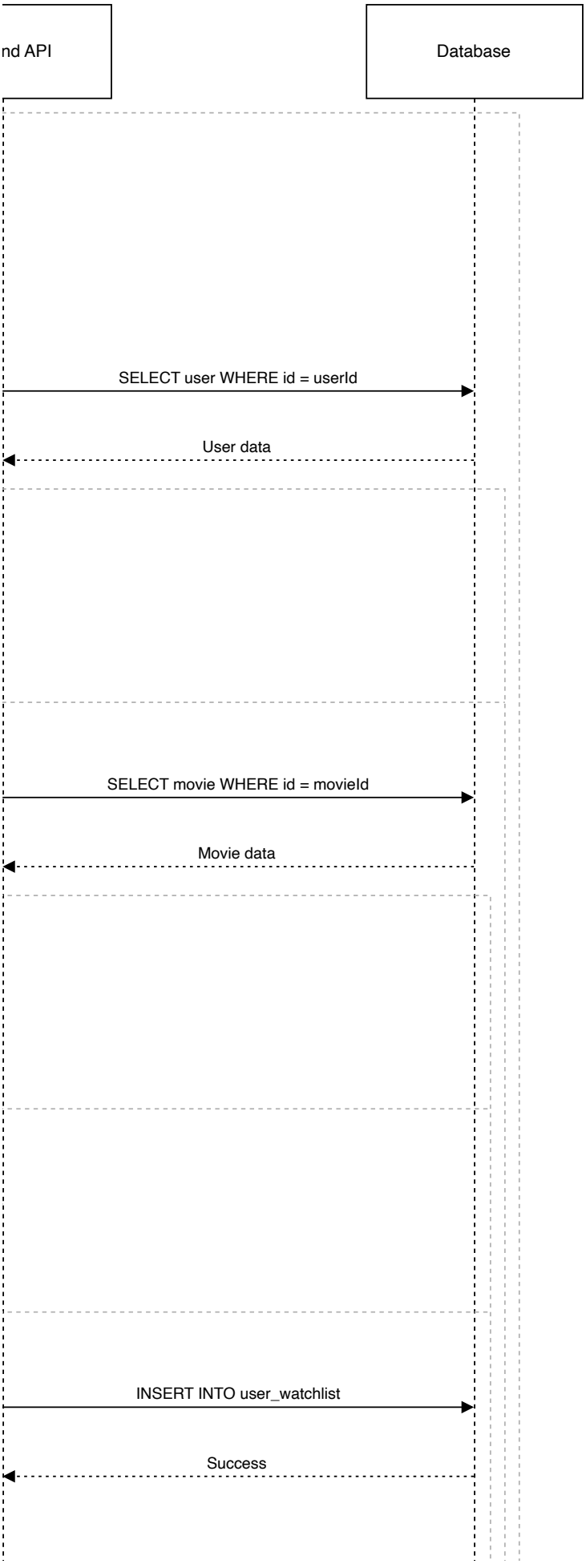

User
Mobile App
Backend API
Browse All Movies
View movies list
GET /api/movies
SELECT * FROM movie_
List<MovieModel>
200 OK (Movies list)
Display movies list
View Movie Details
Click on movie
GET /api/movies/{id}
SELECT movie WHERE
Movie data
alt
[Movie not found]
404 Not Found
Show "Movie not found"
[Movie found]
200 OK (MovieModel)
Display movie details
Get Random Movie

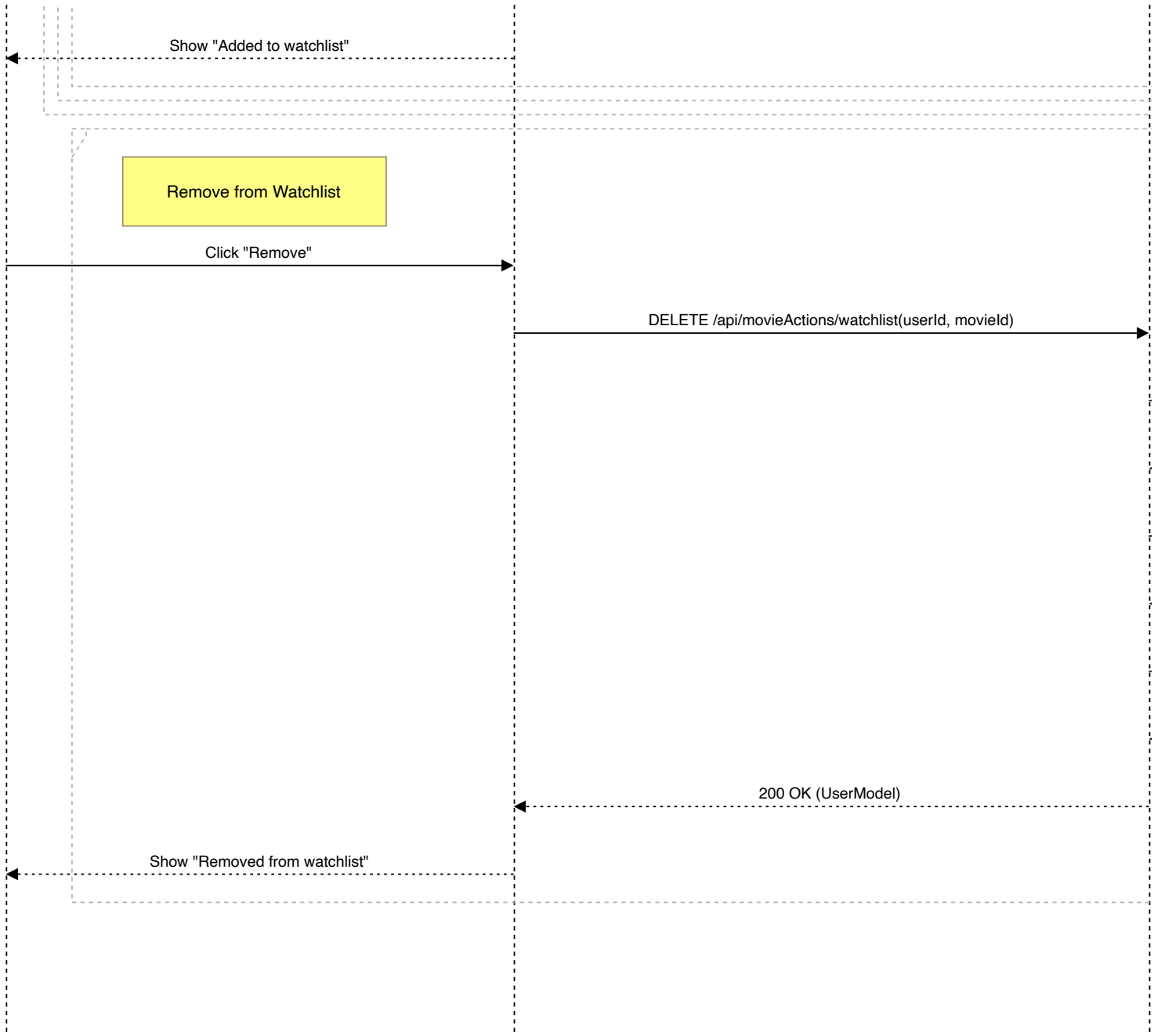

Database
_model
id = ?

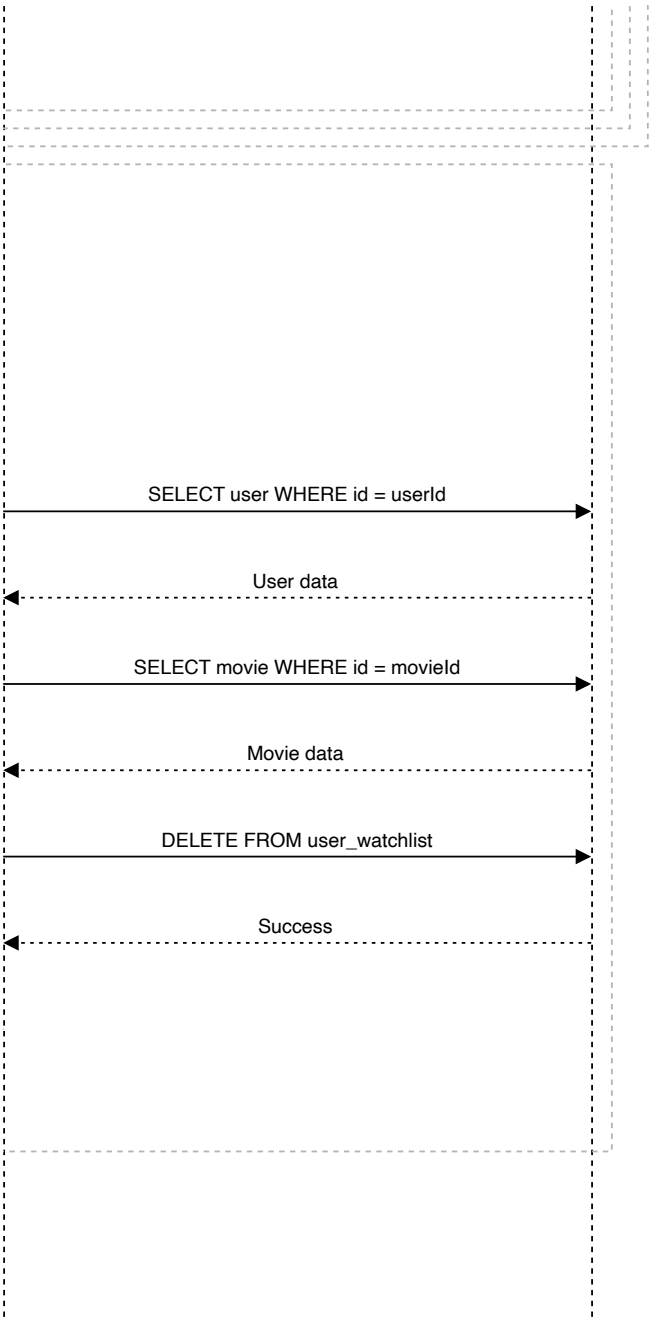

Click "Get Random Movie"
GET /api/movieActions/random
SELECT * FROM movie_
List<MovieModel>
alt
[No movies available]
404 Not Found
Show "No movies available"
[Movies available]
Random selection
200 OK (MovieModel)
Display random movie

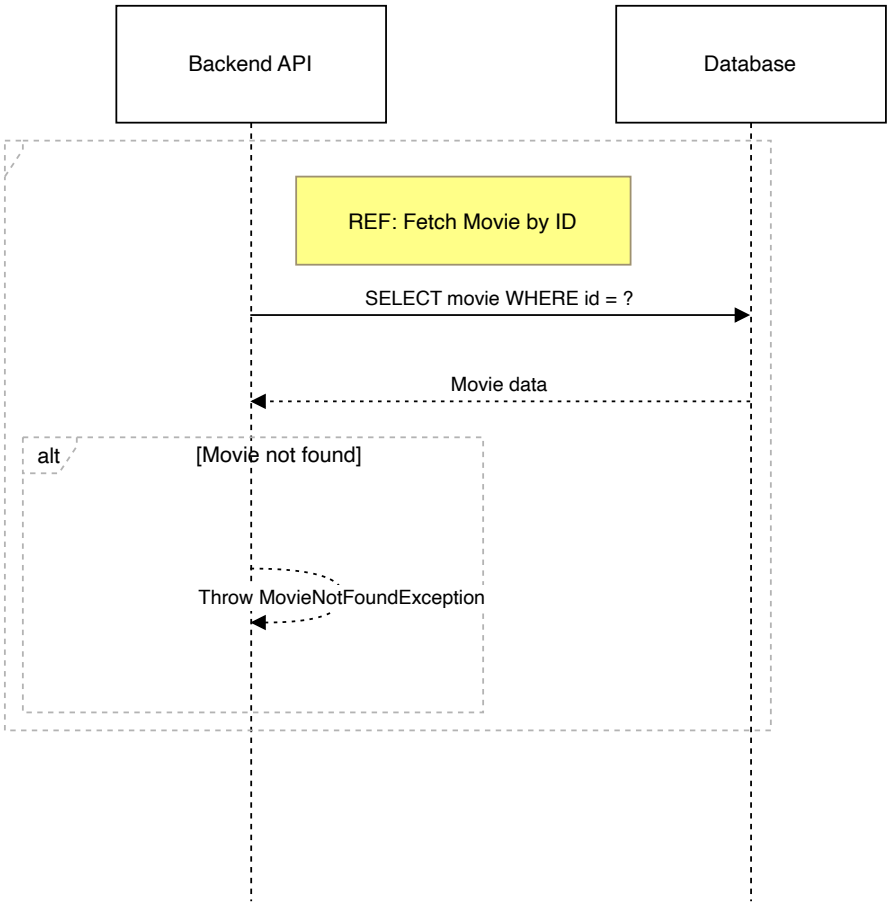
model


User
Mobile App
Backer
Add to Watchlist
Click "Add to Watchlist"
POST /api/movieActions/watchlist(userId, movieId)
alt
[User not found]
404 Not Found
Show "User not found"
[User found]
alt
[Movie not found]
404 Not Found
Show "Movie not found"
[Movie already in watchlist]
400 Bad Request
Show "Already in watchlist"
[Success]
200 OK (UserModel)


nd API
Database
SELECT user WHERE id = userId
User data
SELECT movie WHERE id = movieId
Movie data
INSERT INTO user_watchlist
Success


Show "Added to watchlist"
Remove from Watchlist
Click "Remove"
DELETE /api/movieActions/watchlist(userId, movieId)
200 OK (UserModel)
Show "Removed from watchlist"


SELECT user WHERE id = userId
User data
SELECT movie WHERE id = movieId
Movie data
DELETE FROM user_watchlist
Success


Backend API
Database
REF: Fetch Movie by ID
SELECT movie WHERE id = ?
Movie data
alt
[Movie not found]
Throw MovieNotFoundException