Final Project Database Proposal

Group name： Stevens Syndicate

Group members:

Tao Deng

Jiazhen Liu

Wentao Zhang

Mingxiang Zhao

Collections: User, Movie, Comment

User collection is used to store id, username and password. We have three documents in this collection: profile, comments and favorites. In profile, we have contact information such as email address and phone number. In comments document, we store comments of users for all movies the user review. This document has three field: movie ID, rate and comment ID. We put the id of users' favorite movie in favorites. That's what we do about users.

Movie collection stores all information of a movie: id, name, released date, director, actors, genres (contains genre like science fiction), rating (like PG-13), score (average score graded by users), galleries (contains path of movie's pictures) and comments (contains comment ID).

In comment collection, we have all comments. Every comment has its ID, the user and movie it belongs to, score and content.

**Sample document in JSON format:**

User

{

"\_id": "6f5b8a8b-bfc7-4148-ad94-6b93b5ddce78",

"user\_name": "user1",

"password": "user1Password",

"profile": {

"email": "user1email@gmail.com",

"phone": "2012012001"

},

"comments": [

"7bd16251-10af-4729-bbdc-18b0c9d1a2a9"

],

"favorites": [

"d88c3d80-1d82-44b3-8978-9ab4e1429c98",

"48777632-b26a-4a4e-8637-810236b549c8"

]

}

Movie

{

"\_id": "d88c3d80-1d82-44b3-8978-9ab4e1429c98",

"name": "The Godfather",

"released\_date": "March 24, 1972",

"actors": [

"Marlon Brando",

"Al Pacino",

"James Caan",

"Richard S. Castellano"

],

"director": "Francis Ford Coppola",

"genres": [

"Crime",

"Drama"

],

"rating": "R",

"score": 5.0,

"galleries": [

"./pic/godfather1",

"./pic/godfather2"

],

"comments": [

"7bd16251-10af-4729-bbdc-18b0c9d1a2a9",

"85722b29-061f-414d-a848-493b6e553b6a"

]

}

Comment

{

"\_id": "7bd16251-10af-4729-bbdc-18b0c9d1a2a9",

"user\_id": "6f5b8a8b-bfc7-4148-ad94-6b93b5ddce78",

"movie\_id": "d88c3d80-1d82-44b3-8978-9ab4e1429c98",

"score": 5,

"content": "A great movie"

}

**Field description:**

User

{

\_id: string, the user’s id generated by uuid.

user\_name: string, a username named by user.

password: string, user's password.

Profile: {

email: string, user's email

phone: int, usually a 10-digit number

}

Comments: [

comment\_id: string, referenced by comment\_id in comment collection

]

Favorites: [

movie\_id: string, referenced by movie\_id in movie collection

]

}

Movie

{

\_id: string, an id generated by uuid

name: string, movie's name

released\_date: date, movie's released date.

actors: [

actor: string, a list of actors' names here

],

director: string, director's name

genres: [

genre: string, a list of the movie's genre

],

rating: string, the rating of movies like "PG-13" or "R"

score: double, average score of all the rates of the movie

galleries: [

path: string, the path of the pictures related to the movie.

],

comments: [

comment\_id: string, referenced by the id in comment collection.

]

}

Comment

{

\_id: string, an id generated by uuid

user\_id: string, user's id referenced by user collection

movie\_id: string, movie's id referenced by movie collection

score: int, rated by user and between 1 to 5.

content: string, the content of the comment.

}