

Final Project Database Proposal

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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.
}
```