

CSE 4410
DATABASE MANAGEMENT SYSTEMS II LAB

Mongo_Scenario

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- Think of a scenario of a social media platform that allows users to create profiles, post, follow other users, and like posts. Generally, the user provides his basic information, such as name, email, password (here you don't have to think of a hashing password), phone number, date of birth, and address, and profile creation date is also stored automatically(system Date) and manually. Other than that users may add their working status (like what is he/she doing currently, and how long they are doing this), bios, hobbies, and so on. Any user can post content, the post creation date is stored too. Anybody can like and comment on that post where the liker's and commenter's name and id would be stored too. Additionally, a user can follow and make friends with other users.

Now, your task is to:

1. Create a database named "Social Media".[You can breakdown all the information into two collections namely users and posts.]
2. In case of the user's document make sure a user must have to provide his/her name, password, and email. [hint: use validator]
3. In case of the post's document there must be content. [hint: use validator]
4. Insertion
 - (a) An entry of a user with only email, name and password.
 - (b) An entry of users with basic info and hobbies (consider a user may have multiple hobbies).
 - (c) Two entries of users with basic info and telephone number (work and personal). [hint: use insertMany]
 - (d) Four posts with the content, creation time. [hint: use insertMany]
5. Update
 - (a) Add multiple followers for multiple users.
 - (b) Add multiple friends for multiple users
 - (c) Add multiple users who like a post.
 - (d) Add at least two comments for two posts with the commenters.
6. Data Retrieving
 - (a) Display the total number of posts.
 - (b) Display the most recent to oldest posts along with their poster(s).
 - (c) Show all the posts that were created from yesterday.
 - (d) Show all the users who are following more than 3 users.
 - (e) Show all the users who were born within 1990-2000.
 - (f) Show three profiles that were created the earliest.
 - (g) Show all the posts where commenter "ABC" commented.
 - (h) Show the user's detail who posted "Life is too good".
7. Delete the users who don't have any work phone number.