**Homework - DB #2**

This homework is splitted into three parts:

* Database part
* REST API part
* ExpressJS part

This is the first database part.

In this homework we are going to write an express.js RestFul API server to simulate the Friend Circle in WeChat with MongoDB.

Part I: Database

**Database Design**

* Start running MongoDB in your local or in your preferred cloud enviroment (e.g. MLab), create a new database called wechat.
* In database wechat, we will have three collections:
  + user - to store users
  + post - to store posts in Friend Circle
  + like - to store likes for posts
* Every document in user collection should have:
  + id (You can use the default \_id created by mongoDB)
  + name
  + gender
  + location
  + bio
* Every document in post collection should have:
  + id (You can use the default \_id created by mongoDB)
  + content
  + created\_at - the time when you create this post
  + userId - which user this post belongs to
* Every document in like collection should have:
  + id (You can use the default \_id created by mongoDB)
  + userId - who makes the like
  + postId - which post this like belongs to

**Make Schemas for those three collections in your server**

After we have the basic structure and design for what our database will look like, it's time to create the Schemas in server using mongoose.

* Create Schema for user collection.
* Create Schema for post collection.
* Create Schema for like collection.

**Create Models based on Schemas**

Once you have the schema ready, you need to create three different Models using mongoose based on those three Schemas.

Now, you can create code for

* Get all instances of user, post and like
* Insert instances to user, post and like
* Delete instances of user, post and like
* Edit instances of user, post and like