**Project 2 (Bonus) Description**

For this project, you are not required to write a front end or any actual full application. You are simply meant to demonstrate your knowledge of MongoDB through writing the proper scripts for the functionalities mentioned below. Please ensure that you are separating your scripts logically, so that the demo can go quickly and smoothly. Hard-code the scripts (no need for external input) but prepare for potential changes during the demo. Demo day will be Tuesday, May 15th. As a final note, please ensure that your database is built in NoSQL thinking. The following items below *certainly* do not represent tables, nor should you separate them into separate collections for the purposes of this project. As always, I am available and accessible via eMail. We will have a lab session on Wednesday the 9th to discuss any help you may need for the project. This project is for 10% bonus. Each script is worth 0.5%.

**Functionalities**

Build a Facebook-like system that has the following:

* Users: Users profiles can be created, modified, or deleted
  + Required attributes
    - Name
    - Gender
    - Age
    - eMail
    - Username
    - Password
    - Profile Picture
    - Date account created
    - Any other attributes you think will be necessary from remaining requirements
  + Required scripts
    - Script for creating a user
    - Script for updating a user
    - Script for deleting a user’s account
* Posts: A user can create, modify, or delete a post
  + Required attributes:
    - Post text
    - Post date and time
    - Any other attributes you think will be necessary for remaining requirements
  + Required scripts:
    - Script for creating a user’s post
    - Script for editing a user’s post
    - Script for deleting a user’s post
* Pictures: A user can post pictures
  + Required attributes:
    - The actual picture
    - Caption
    - Any other attributes you think will be necessary for remaining requirements
  + Required scripts:
    - Script for creating a picture
    - Script for editing the picture’s caption
    - Script for deleting a picture
* Comments: A user can post comments on any post, any picture, or any comment
  + Required attributes:
    - Comment text
    - Commenter
    - Any other attributes you think will be necessary for remaining requirements
  + Required scripts:
    - Script for creating a comment on a user’s post
    - Script for creating a comment on a user’s picture
    - Script for creating a comment on a user’s comment
    - Script for editing any comment
    - Script for deleting any comment
* Reactions: A user can react to a user’s any post, any picture, any comment, or any subcomment
  + Suggested reactions:
    - Love
    - Like
    - Dislike
    - Sad
    - Angry
  + Required attributes:
    - Reaction
    - Reactor
    - Any other attributes you think will be necessary for remaining requirements
  + Required scripts:
    - Script for creating a reaction on a user’s post
    - Script for creating a reaction on a user’s picture
    - Script for creating a reaction on a user’s comment
    - Script for creating a reaction on a user’s subcomment
    - Script for editing any reaction
    - Script for deleting any reaction