**CS 3750 In-Class Discussion 1- Trinity Kerr**

* You want to build a new social networking site. The first thing to do is to implement user account management. Feel free to have a look at Gmail or Facebook to get clues. You may need to consider all the aspects of user account management system carefully.
  1. How will the user account management look like?

A login or a sign up option, Organization or App logo on the page. Login option will have text boxes for username/email and password. Sign up option will take user to a new page with more text boxes to enter personal information and create an account.

* 1. What are the use cases? What are some user stories?
     + User types username and password in text boxes and the user is taken to the home page of their account
     + User types username and password in text boxes and the user is information is not found, an error message is presented on the screen
     + User selects sign up option and is taken to the sign up page and enters personal information into text boxes and clicks sign up to create their account successfully, they are then taken to their new account homepage
     + User wants to update their profile, so they select update profile and enter the new information that they want to change and press save
  2. What are the different components of user account management?
     + password, email, first name, last name, profile photo, security question, backup email, phone number, usertype
  3. What are functional requirements?

-find matching credentials from user database and authenticate

-if credentials do not match inform the user

-take authenticated to their home page

-take new users to sign up page

-Saves new user data into database / User Creation

-Update User information

* 1. What are some non-functional requirements?
     + Quick response time
     + Easy to navigate screen (simple)
     + Security to protect users information
     + Always log in user to the correct account
  2. How will the UI look like?

The UI will be simple, there will be two text boxes on the main page. One for username/email and the other for password. Underneath those textboxes, there will be a link to sign up if there is a new user, or a button to click login

* 1. What technologies will you use? If you must build a fully functional end-to-end user management system.

I would use sql server database and C# to create this end to end user management system.

* 1. What are possible errors that may occur during user account management? How will you handle it?

System could log user into the wrong account, which is definitely a security issue. To handle this I would go back and look at the sql statements that are selecting which account information to display to the user and correct the problem.

Another issue could be the user has valid credentials, but the system is telling them they are not in the system. I would go through a similar process above to fix this problem.

* 1. Anything else you want to share?

N/A

* 1. If you have 4 team members, how many hours will it take to build such a system?

If I had 4 team members, I would say it would take about a week to get everything fully polished and running for this User Account Management system.