

# Project Requirements

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This is an engineering proof of concept. The goal is to exercise the technologies we learnt in this course.

**A group consists of 3~4 members.**

**While during project, you have conflicts with team members. Please solve by yourselves, try your best not come to me. Teamwork is important during project.**

If you need to use a new technique which isn't covered in this course, you must get permission first. Otherwise, you're gonna lose points in your group project grade.

You are **NOT** allowed to use Angular or React completely for the front end.

*Group Submission - DueDate: 5PM December 20th, 2019 (Thursday)*

1. Document include WHO did WHAT – **VERY IMPORTANT: Not everyone in the same group will get the same grade.**
2. Document all the techniques for the project. And listed where you used them.
3. Document how to configure /Install Application
  - o Application should have pre-populated data.
4. Source code or Github links
5. Presentation slides if you have one
6. One group submit only one – for the source code.
7. **Every student needs to submit a project summary about what you did. In the summary, provide a screenshot of project commit history.**

## Project Topic – Social network

1. Users: Admin, User
2. Features of Admin
  - a. Login/Logout
  - b. Can push Advertisements to all users, targeted users. Targeted users are like: Users are 20 years older, or live certain areas, etc.
  - c. A system automatically filters user's unhealthy posts, notify and shows those posts to admin. Admin then can decide to disable or enable the posts.
  - d. For malicious users (if the user has more than 20? unhealthy posts), the account should automatically be deactivated, and notify user by email at the same time. After user's claim, admin can active user's account again.
3. Features of User
  - a. Register as a new user
  - b. Login/Logout
  - c. Manage Profile (name, profile photo...)
  - d. Can follow other users.
    - i. On the home page, should load the latest posts from followers' posts and own posts order by created Date. You shouldn't load all posts at

- one time, find a way to solve the problem.
- ii. Provide a way to manage following list.
- iii. Able to see following's profile and timeline
- e. Can send posts with photos and texts. User can choose to notify followers. If notification is allowed, system should notify all followed users. If user already logs in, it should happen without refresh current viewing page. If not logged in, it shows next time when logs in.
- f. User's timeline: show all posts created by itself. You shouldn't load all posts at one time, find a way to solve the problem.
- g. User can like, comments on others' posts.
- h. User can search posts. Search posts made by user itself and all followers'.
- i. Necessary validation should be added.

#### 4. Features with extra points

- a. (0.5 point) Use JWT & OAuth
- b. (0.5 point) Posts with Videos, be able to play videos
- c. (0.5 point) Present on Wednesday

### **Project Presentation**

- 1) Present individually unfortunately, no time for group project.
- 2) Only allowed to use 1 laptop
- 3) Each student presents own tasks
- 4) Maximum presentation time is 30 minutes
- 5) Grade is based on the completion of features above.