

Design of Campus Social Media

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Purpose of the product:

- Enhance communications among people on campus
- Release important news and info to make sure everyone on campus know it.
- Manage time for students by using to do list and class list

Problem description:

Social Media App for University (eg. UC Irvine)

Audience: students, teachers, staff

Demand: login, profile, post whatever you want(e.g. Text, photos, videos), add new friends, message, board

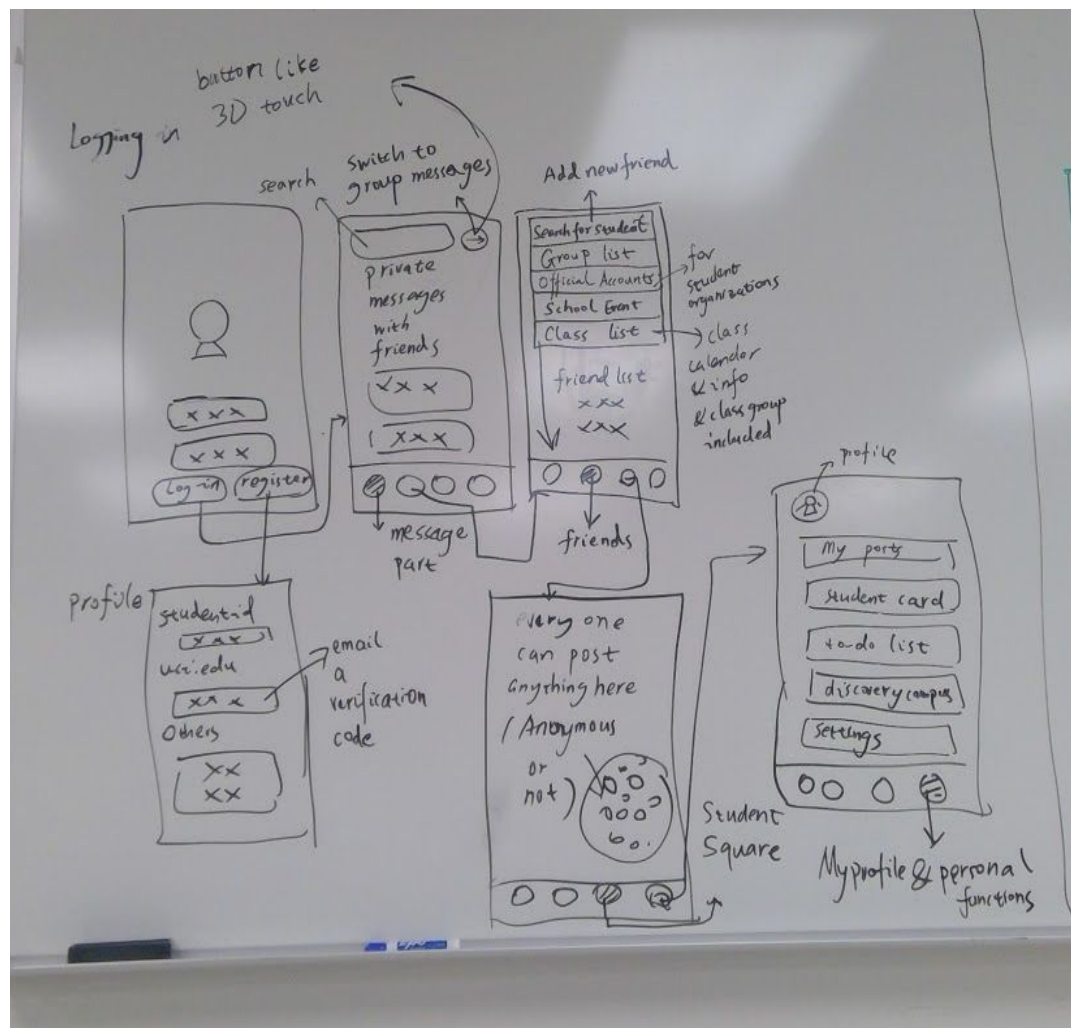
Constraints: scale

Message type: text, picture, voice

Group: friend, class, the student organization

Design:

GUI:



General functions: login, register, profile, friends, message, posts.

- Login: users should input their name and password, the front-end encrypts it and send it to server, then the backend validates it with user database.
- Register: basically the same as login, but validate user's identity with email or phone number and stuff, server stores them in the user database.
- Show profile: allow users to manage and check their account, view account of their friends.
- Add new friends: users can add friends by searching user id, or by scanning QR code.
- Send messages: users can chat with a specific friend, chat in a group. Except text messages, users can send pictures, voice messages, videos.
- Posts: users can post ideas, his friends can like the idea and write comments under the post. Users can hide his posts to some people by setting.

- Board: students' organization, school office can post public events and news on board, on which all users can have access to these information.
- Group messages: there is a group leader who can manage the group.
- Anonymous posts: users can post ideas anonymously which all users in this app can see.
- Class calendar: students can check their class schedule.

Database:

Users(**account**, password, ID, name, age, gender, email, phone, collage, title)

Friends(account1, account2)

Message(**account1**, **account2**, time, content)

Post(**account**, **post_id**, time, content, image_url)

Commnet(**account1**, **account2**, **account2_post_id**, content) account1 will comment account2

Like(**account1**, **account2**, **account2_post_id**) account1 will like account2

Group(**group_id**, group_name, manager_id)

Member(**group_id**, **account**)

Structure:

Front End: Phone Applications, Web, HTML/CSS/JS

Back End: Java, AWS

Database: MySQL, dedicated space.