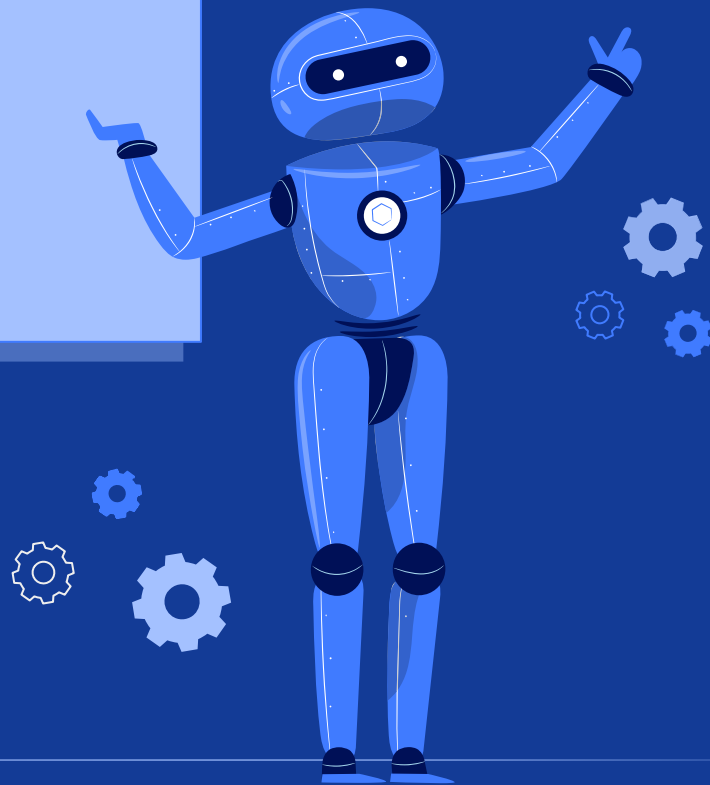




WeGroup

CS5500 Final Project

Design & present by
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Ruizi Dong, Hongdan Zhu, Linyi Gao,
Siyu Liu



Agenda

01

About

Intro & purpose

04

Methodology/Process

The development
methodology
/process

02

Features

The major features
of WeGroup

05

Future/Organization

The future for
WeGroup and
organization of the
repository

03

Technologies

The technologies
used in WeGroup

06

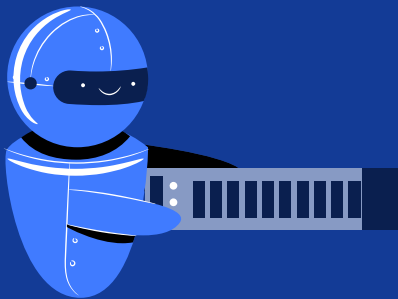
Demo

The demonstration
of the application

01

About WeGroup

Intro & purpose



Intro & purpose

Introduction

- **WeGroup** is a full-stack web communication platform developed by our group members. It can be used by all university faculties and students.
- WeGroup primarily competes with the similar service like Microsoft Teams and Piazza, offering posting, forming group, group chatting features. It allows users to make posts about course projects, form groups, collaborate with each other to share messages and check meeting time slots.



Intro & purpose

●●● *Purpose of this application*

- Due to the COVID-19 pandemic, all students are taking the online courses. It's hard for students to find teammates to complete a course project together.
- We came up with an idea that we can build up a platform for students to post their project ideas and find teammates. Professors can also use it to post course related information for students.
- We named our application "WeGroup" that means we group each other to form a group with the same dream.





Who are the user?

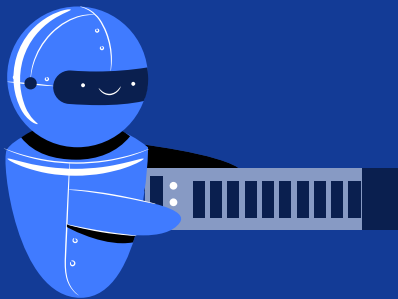
- Students
- Professor



02

Features

*The major features of
WeGroup*



Major features

It have the following features:

- ★ Sign up/ Log in
- ★ Post
- ★ Search
- ★ Group



The major features of the application

Sign up/ Log in

- User need to use their email to sign up our platform for the first time.
- Otherwise, user can just log in their account.

The image displays two screenshots of the WeGroup application's user interface, specifically the sign up and log in screens. Both screens feature a red header bar with the 'WeGroup' logo and a white main content area.

The top screenshot shows the sign up screen. It includes the 'WeGroup' logo, a 'WeGroup Email' input field, a 'Password' input field, and a red 'Sign up' button. Below the button, there is a link: '> Already had an account? Log in'.

The bottom screenshot shows the log in screen. It includes the 'WeGroup' logo, a 'WeGroup Email' input field, a 'Password' input field, and a red 'Log In' button. Below the button, there are two links: '> For get your password?' and '> Don't have an account? Sign up'.

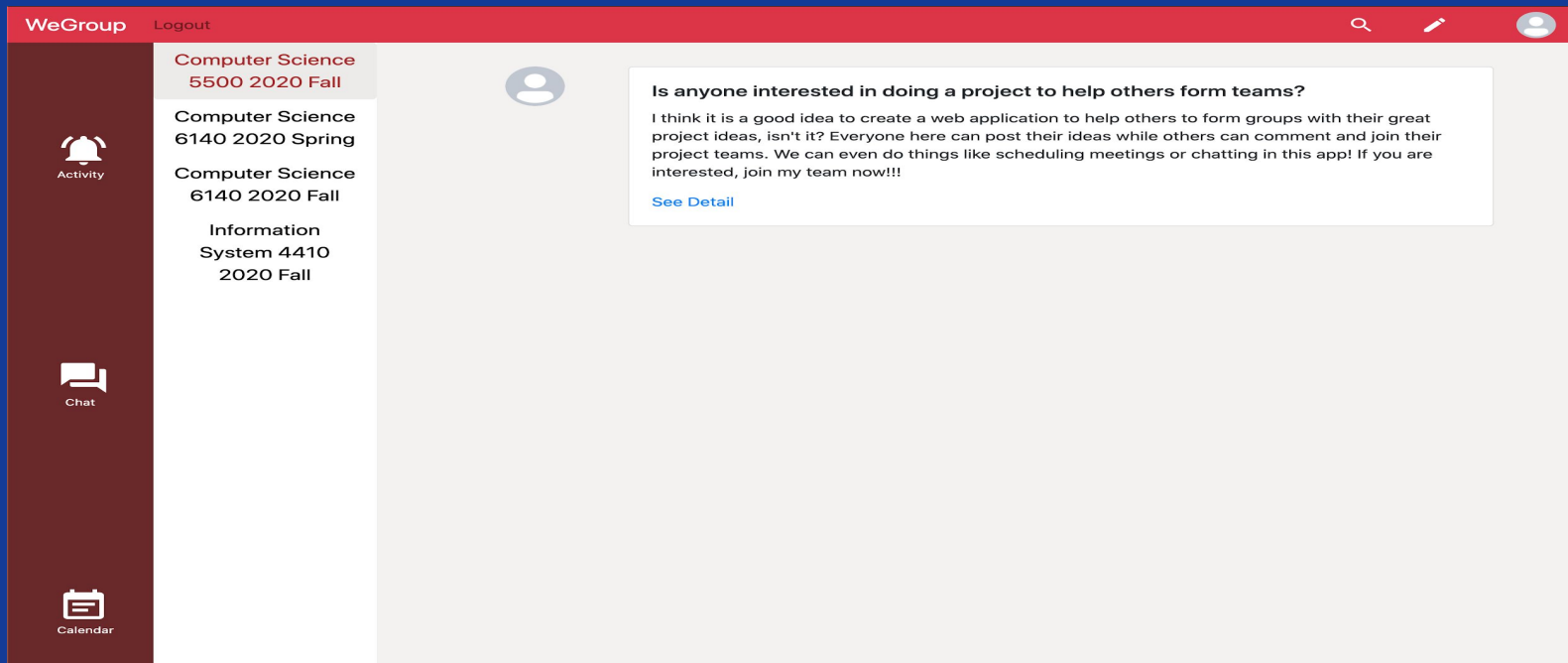
The major features of the application

Post

- Users can publicly make posts about projects, ask questions, answer questions. Professors can make posts about any course related information.
- Each post can be commented. Multiple students are allowed to contribute to each project post.

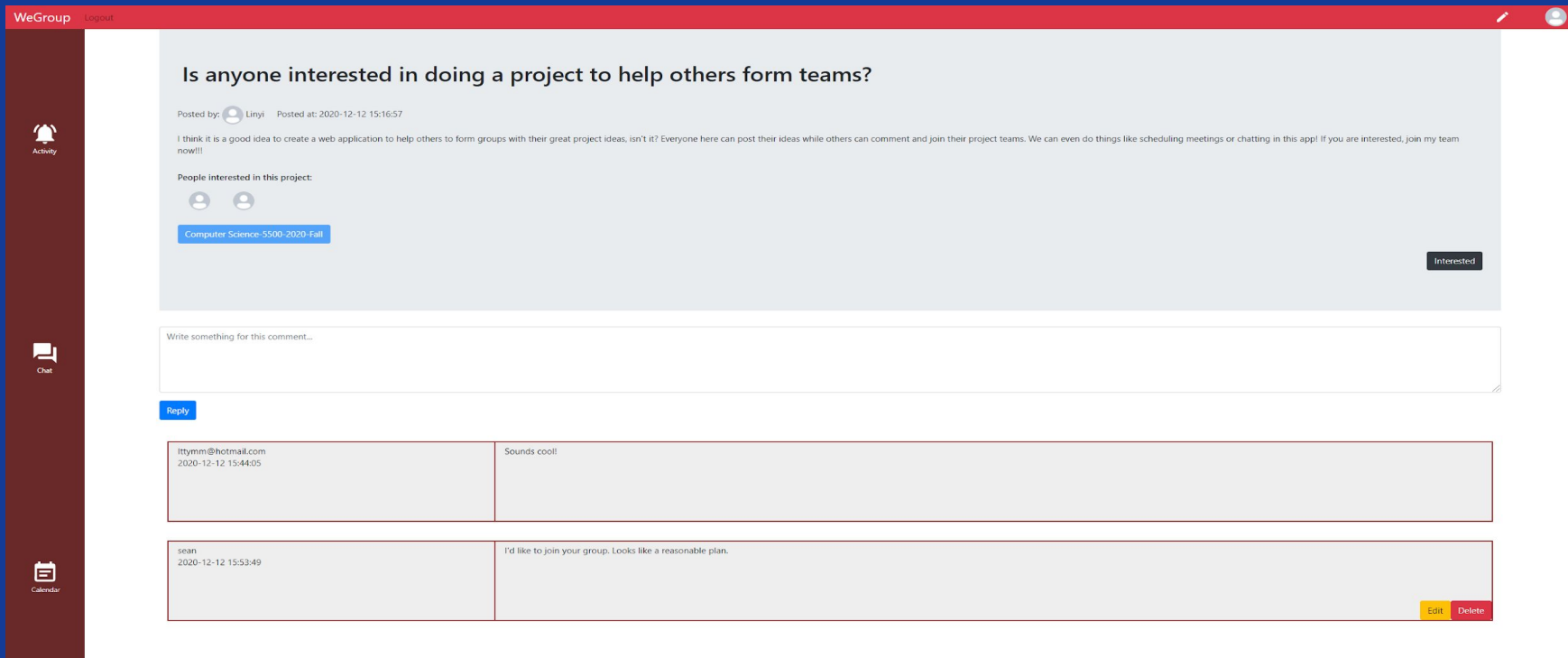
The major features of the application

- The post interface consists of the tags, project names, list of project posts, and a central panel for viewing and commenting to individual posts.



The major features of the application


- We also have an unique feature that allow students to show their interest. If student want to join this project can simply click the “Interested” button on the post.





The major features of the application

WeGroup

Logout


Activity


Chat


Calendar

Title

Project Design

Upload Design Image

Browse

Project Description

Tags

Select...

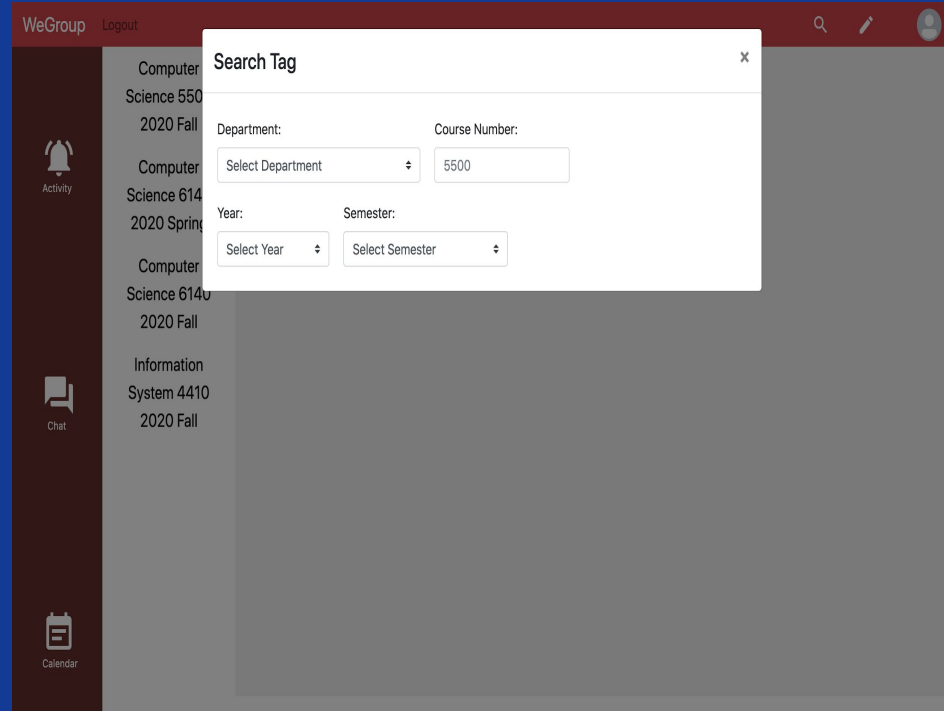
create new tag

Submit

The major features of the application

Search by Tags

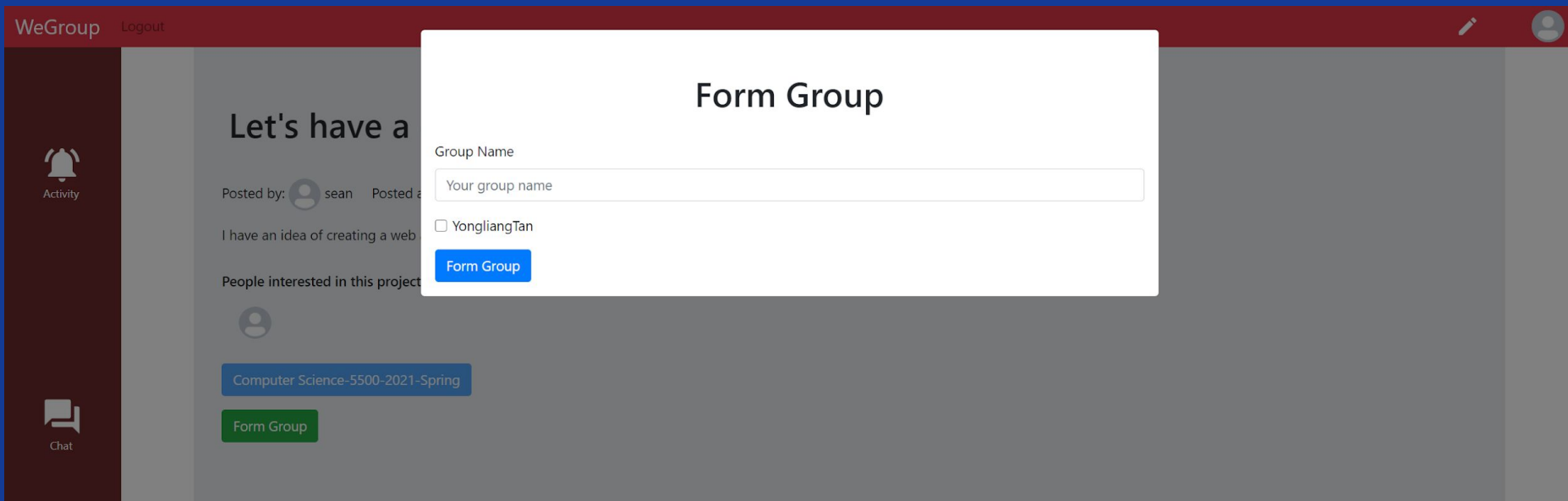
- WeGroup allows users to search their interested project by project tags.
- The tag including four fields such as semester, course number, year and department. You could filter by those four fields to find the best match one.



The major features of the application

Group

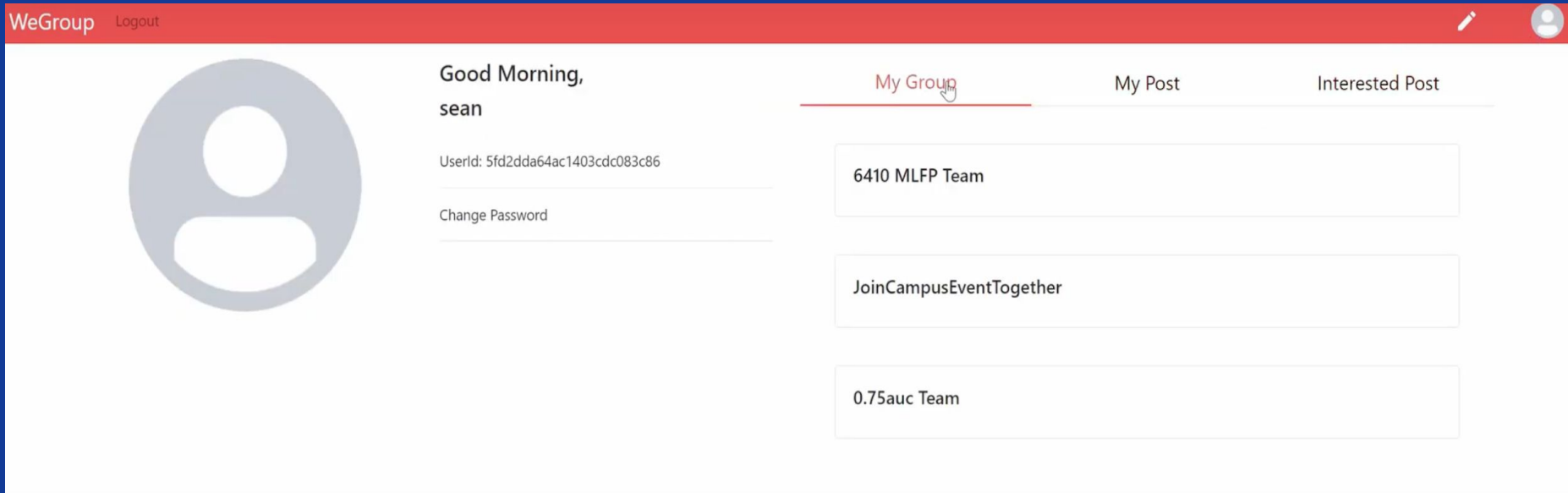
- The post owner can select his/her project member from the interested list and form a project group.



The major features of the application

Group

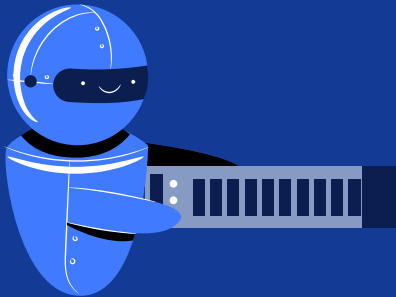
- User can view which group he/she involved from their profile.



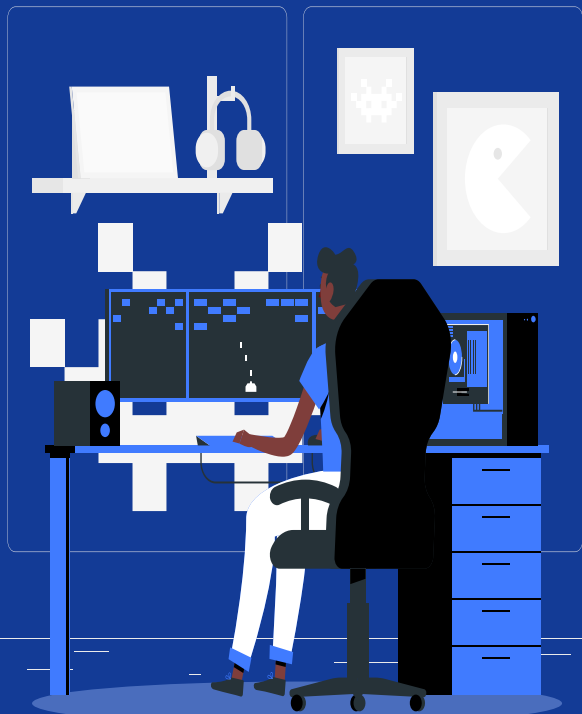
03

Technologies

*The technologies used in
the application*



Technologies Used



Frontend

We use React/Redux as the frontend framework.

Test

We use Postman to test backend APIs.

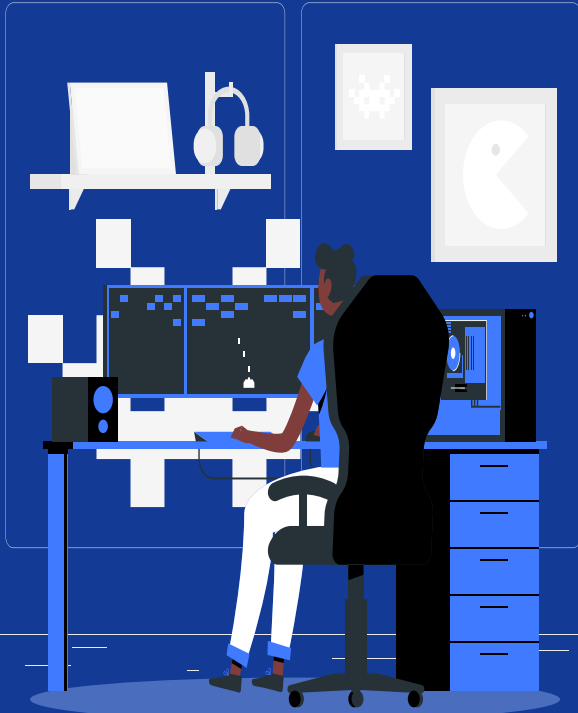
Backend

We use node.js + express for the backend development.

Database

We use MongoDB to store our data.

Feature Implementation



Authentication

We use bcrypt,
jsonwebtoken

Image Upload

We use uuid/v4,
Multer

Test

The screenshot shows the Postman application interface. At the top, there's a navigation bar with 'New', 'Import', 'Runner', and 'Workspace' tabs. Below this, a 'My Workspace' dropdown and an 'Invite' button are visible. The main area is divided into 'History', 'Collections', and 'APIs' tabs. The 'Collections' tab is active, showing a list of collections: 'FR Browser' (5 requests), 'PETVisualizer' (12 requests), 'Rettex' (104 requests), 'Rettex Main API' (135 requests), and 'VDR' (7 requests). A 'New Collection' button is also present. The 'Untitled Request' section is active, showing a POST request to 'http://localhost:8080/post'. The 'Body' tab is selected, displaying a JSON payload in the 'Pretty' view:

```
{
  "id": "5fd44f6408261f5b2aa0c85",
  "userId": "5fcd8a11a4dd615f1b5ac6",
  "tagId": "5fcd8a11a4dd615f1b5ac6",
  "createdAt": "2020-12-12T09:45:00.365Z",
  "text": "abc",
  "img": "http://localhost:8080/public/0fb11c99-00a6-493e-843c-5e8712b83d53-screen-shot-2020-12-11-at-9.02.37-pm.png",
  "hasFormGroup": false,
  "__v": 0
}
```

The bottom status bar shows 'Status: 200 OK', 'Time: 195 ms', 'Size: 602 B', and a 'Save Response' button.

The screenshot shows the MongoDB Compass application interface. The title bar indicates 'MongoDB Compass - cluster0.tpbel.mongodb.net:27017/WeGroup.users'. The left sidebar shows a tree view of the database structure: 'Local' (3 DBS, 11 COLLECTIONS), 'WeGroup' (comments, posts, tags, teams, users), and 'admin'. The 'WeGroup.users' collection is selected, showing 5 documents. The 'Documents' tab is active, displaying a list of documents with their details:

- Document 1: `{ "_id": ObjectId("5fcd8a11a4dd615f1b5ac6"), "userId": "5fcd8a11a4dd615f1b5ac6", "tagId": "5fcd8a11a4dd615f1b5ac6", "createdAt": "2020-12-12T09:45:00.365Z", "text": "abc", "img": "http://localhost:8080/public/0fb11c99-00a6-493e-843c-5e8712b83d53-screen-shot-2020-12-11-at-9.02.37-pm.png", "hasFormGroup": false, "__v": 0 }`
- Document 2: `{ "_id": ObjectId("5fd44f6408261f5b2aa0c85"), "userId": "5fcd8a11a4dd615f1b5ac6", "tagId": "5fcd8a11a4dd615f1b5ac6", "createdAt": "2020-12-12T09:45:00.365Z", "text": "abc", "img": "http://localhost:8080/public/0fb11c99-00a6-493e-843c-5e8712b83d53-screen-shot-2020-12-11-at-9.02.37-pm.png", "hasFormGroup": false, "__v": 0 }`
- Document 3: `{ "_id": ObjectId("5fd44f6408261f5b2aa0c85"), "userId": "5fcd8a11a4dd615f1b5ac6", "tagId": "5fcd8a11a4dd615f1b5ac6", "createdAt": "2020-12-12T09:45:00.365Z", "text": "abc", "img": "http://localhost:8080/public/0fb11c99-00a6-493e-843c-5e8712b83d53-screen-shot-2020-12-11-at-9.02.37-pm.png", "hasFormGroup": false, "__v": 0 }`
- Document 4: `{ "_id": ObjectId("5fd44f6408261f5b2aa0c85"), "userId": "5fcd8a11a4dd615f1b5ac6", "tagId": "5fcd8a11a4dd615f1b5ac6", "createdAt": "2020-12-12T09:45:00.365Z", "text": "abc", "img": "http://localhost:8080/public/0fb11c99-00a6-493e-843c-5e8712b83d53-screen-shot-2020-12-11-at-9.02.37-pm.png", "hasFormGroup": false, "__v": 0 }`
- Document 5: `{ "_id": ObjectId("5fd44f6408261f5b2aa0c85"), "userId": "5fcd8a11a4dd615f1b5ac6", "tagId": "5fcd8a11a4dd615f1b5ac6", "createdAt": "2020-12-12T09:45:00.365Z", "text": "abc", "img": "http://localhost:8080/public/0fb11c99-00a6-493e-843c-5e8712b83d53-screen-shot-2020-12-11-at-9.02.37-pm.png", "hasFormGroup": false, "__v": 0 }`

The bottom status bar shows 'Status: 200 OK', 'Time: 195 ms', 'Size: 602 B', and a 'Save Response' button.

Methodology/Process

04.

The development methodology

04.

The development process



METHODOLOGY



Agile Software
Development



Our Roles:
Product Owner
Developers
Scrum Master



Scrum software
development framework



Workflow:
Sprint
Daily Scrum
Grooming



Milestones



Milestone 1

- 1, Project planning
- 2, Frontend and backend design
- 3, Demo design (in team and to stakeholders)



Milestone 2

- 1 login/Signup
- 2 Post/Comment
- 3 Search Posts
- 4 Create Team



Milestone 3

- 1, Team Chatting Room
- 2, Calendar Feature

PROCESS

11/1 - 11/30

Planning and Design

Frontend

Backend Design

Demonstration and Collect

Feedback

Sprint 1

01

12/1-12/7

Build frontend and backend API
for post and create team

Sprint 2

02

12/8-12/14

Connect backend with
database, connect frontend
to backend

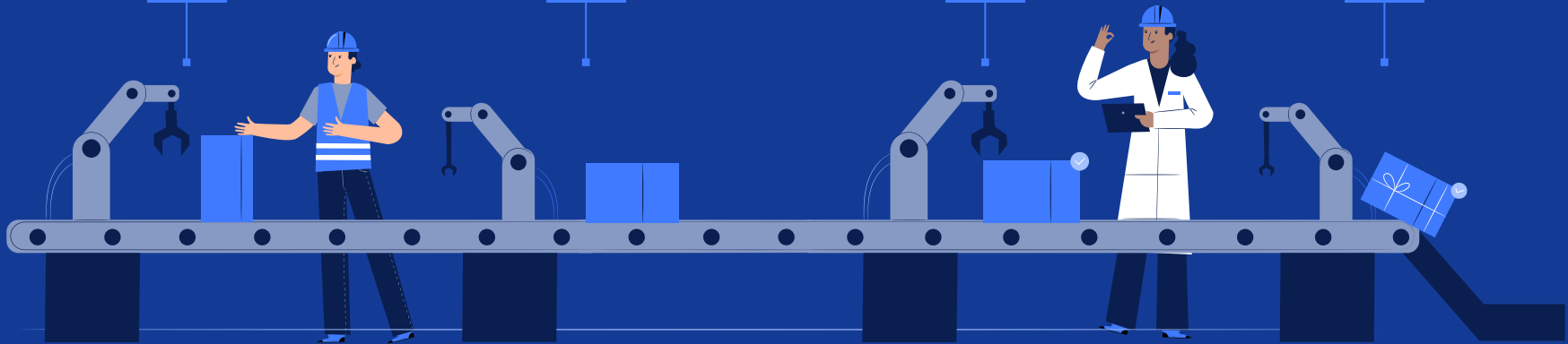
Sprint 3

03

Future Plans

Sprint 4

04



The future features of the application

Chat

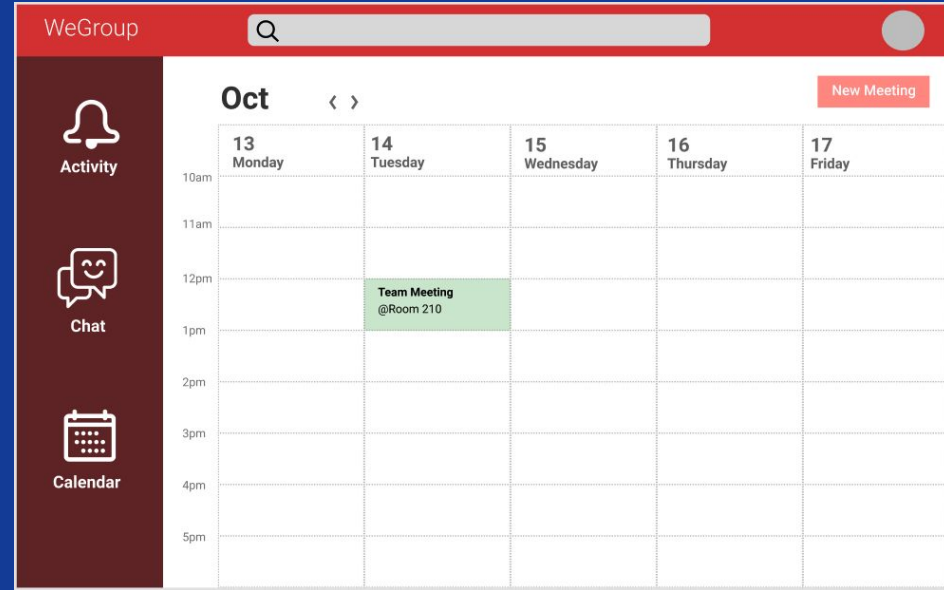
- WeGroup allows users to communicate through Chats.
- Chats in WeGroup are persistent. So users need not to check Conversation History.
- WeGroup allows users to format text, use emojis, during chats. Users can mark the message as Important.



The future features of the application

Calendar

- Provide the calendar icon for everyone to see the meeting time for this project. The calendar would be put in an obvious place on the webpage.
- Allow user to put meeting time and let other students that are interested in this project to pick the available meeting time.



Future



Chat

Enable users to chat with each other in this website.



Calendar

Enable users to set up time schedule like meetings and give users notifications.



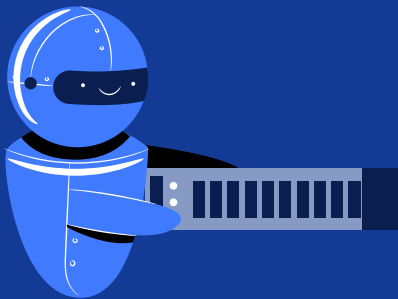
Scalability

Enable more users from different universities to visit and use our project website.

05

Organization

The organization of the repository





- Frontend code folder
- Backend code folder
- Related documents
- Readme file for our users
- WIKI page

The organization of the
repository





master ▾

project-hqrryyls / backend /



seantanty update postdetail page to make it work

..



middleware



models



public



routes



package.json



seeds.js



server.js



master project-hqryyls / frontend / wegroup /

liaoqing21 Merge pull request #71 from 2020FACS5500SV/qing ...

..

public Add Login and Si

src Merge pull reque

README.md initial setup

package.json update calendar

master

project-hqryyls / frontend / wegroup /



seantanty Merge branch 'master' of <https://github.ccs.>

..

actions

components

containers

reducers

route

services

styles



 master ▼

project-hqrryyls / docs /



hongdanzhu Add files via upload

..



CS5500 WeGroup Document.pdf



communication plan -WeGroup .pdf



index.html



script.js



style.css



Demo

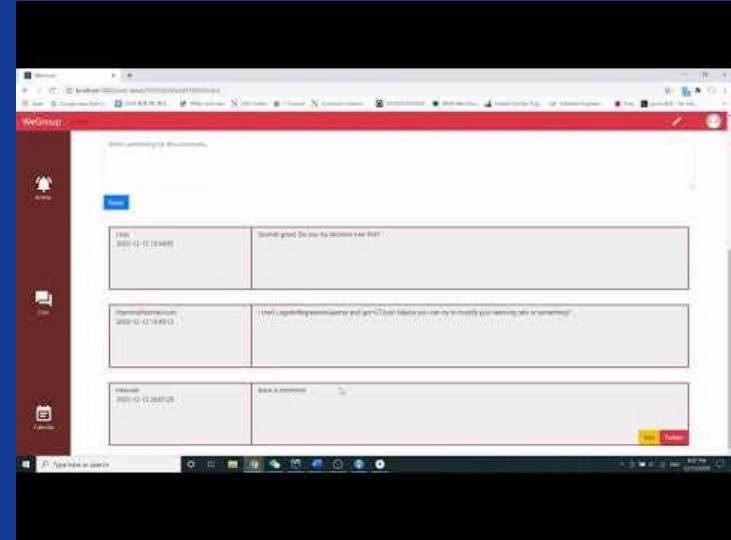
06.

06.

Demonstration of
the application



DEMO





Does anyone have
any questions?

THANKS !