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CRC Cards

Class Name: Interface - DAO

Subclasses (if any): List all the subclasses separated by a comma

Responsibilities

- Create a post
- Create a club
- Search for clubs given a substring
- Prioritize all the posts based on their priority member
- Authenticate and login users
- Search for users given a substring

Collaborators

- Post
- User
- Club

Class Name: User

Subclasses (if any): Student, Professor, Department

Responsibilities

- Has an ID
- Knows username/password
- Knows clubs that user is following
- Knows role
- Knows timestamp when created

Collaborators

Club

Class Name: Club

Subclasses (if any): List all the subclasses separated by a comma

Responsibilities

- Stores users as members
- Stores users as executives
- Stores its own information
- Will store posts related to that club
- Determines if a club is official or not based on the owners' email
- Knows timestamp when created
- Has ID

Collaborators

User

Class Name: Post

Parent Class (if any): List the parent class if applicable

Subclasses (if any): List all the subclasses separated by a comma

Responsibilities

- Has ID
- Knows posting user
- Knows posting time
- Has title of post
- Has description of post
- Has a priority number
- Has comments
- Knows club that posted it
- Has image url link of post

Collaborators

- User
- Club
- Comment

Class Name: Comment

Parent Class (if any): List the parent class if applicable

Subclasses (if any): List all the subclasses separated by a comma

Responsibilities

- Has ID
- If it's root
- Replies
- Knows commenting user
- Knows commenting time

Collaborators

- User
- Post

Architectural Diagram

App.js - the page with properties applied to all other pages (e.g. navbars). Also conditionally renders LoginComponent.js instead of the app if the user is not logged in

Left_Navbar - part of the Navbars

Top_Navbar - another part of the navbar. Users can navigate to club creation, user search pages etc

Search_bar.js - component responsible for searching functionality. Gets as props placeholder value and the function, which will run when the form is submitted

Club-list-search-interface - wrapper component for searching for posts. Adds functionality of searching clubs by tags or club names. Gets a function as a prop to change the state of the father component

User-list-element.js - component responsible for styling user data

Users-list is - component for rendering users, returned in accordance with Search bar is input

Clubs-feed - component, which renders all posts and does the filtering for them (Comment: later will be done using another endpoint). Also posts can be searched by title there using search bar

Clubs-post - component, which takes props of data from the Model and applies styling to it. Used in Clubs-feed component

Clubs-list-component - gets and renders all clubs in the Model and allow them to access that specific club page

```
Create-club-component - creates club by values passed from the user (
Comment: not yet implemented
)

Edit-club-component - allows user to edit chosen club if the user is club owner (
Comment: not yet implemented
)
```

Post-create-component - allows users to create posts that have can have vary properties like if the post is public or private, if it is an announcement, etc

Club-Page-Component - Allows users to see all posts for the specific club they accessed. Only the Owner of the club or Executives of that club will be able to see the form to submit a Post for that club (The owner is hardcoded as it depends on User Sessions)

Login_component - Allows users to login (and be redirected to the home page) if the valid username and password is provided. Will return an error if invalid username or password is provided.

comment_management_component - (props: post ID and comments array) - Responsible for handling commenting posts (not replying), also globally stores which comment/post we are commenting/replying

comment - (props: post ID, handler for replying, author, comment ID, content, date, and replies) - Responsible for comment UI and main functionalities: conditionings for opening text area for replying, replies functionalities, what we do when submitting the reply, where we store text we typing to text area related to replies

textAreaForm.js (props: onChange function running when text changed in textarea, placeholder, button text, onSubmit function running when submitting) - Responsible for textarea UI and functionalities

LoginComponent.js - Responsible for registering and logging in. It also displays errors to users if something goes wrong

store/index.js - component used to set the Redux up, ie its states, stores. Also uses redux-persist library so that the data is still stored whenever the page is refreshed

The backend endpoints do what their name says (except for /:id's ones, they can get and delete data, depending on the request type)

Another assumption made about our document is that it is assuming you are using our default database which is:

ATLAS_URI=mongodb+srv://Manager:ManagerPassword@cluster0.mc9b6f1.mongodb.net/?retryWrites=true&w=majority

And it should be located in .env which is inside the setup/backend folder

We are using a Three - tier architecture ->

https://en.wikipedia.org/wiki/Multitier_architecture#/media/File:Overview_of_a_three-tier_application_vectorVersion.svg

