Project name

Umbrella

Synopsis

Umbrella is a web app targeted to university research laboratories for managing the laboratory equipment. Users can sign up to join the system. Lab administrators can add their labs to the system and add equipments to their lab. Students can manage their profile and join labs to book the lab's equipment.

Requirements and installation

Local installation
1. Install nodejs on your machine
2. Install mongodb on your machine and run it on default port
3. Clone the repository from :https://github.com/priyank-purohit/csc309-a5.git
4. Run: npm install
5. Run: npm start
6. Open browser and enter url: http://localhost:3000/

Heroku hosting
- Access the web application at http://umbrella-resource-management.herokuapp.com/.

Usage

Here is the sample local use scenario:
1. First user to sign up is the super admin
2. All subsequent users to sign up are regular users
3. Second user joins and creates a lab, and becomes the admin of that lab
    a. List labs page is empty because the super admin has not approved the lab yet
4. Super admin logs in and approves the lab
5. The second user (now a lab admin) can now see the lab in the system, and has the option to view and add equipment to it
6. Another user signs up, and sends request to join lab
7. The lab admin has the option to manage lab members, and sees the request from the third user
8. Lab admin approves the request to join lab
9. Now when the third user goes to list labs there is an option to view the lab's details because the user is now a member of that lab. Now the user can book equipments in that lab, post comments, rate lab, and view members etc…
10. The lab admin has the option to remove the third user from lab

Note: even a lab admin has to get permission to view another lab

Note: super user can view all labs, and can remove lab members

How to

For the Heroku app, you can use the following login details (email + password):
SUPER ADMIN:
superadmin@mail.com + pass
ADMIN with an approved lab:
admin@mail.com + pass

Note: we chose to not implement localhost:3000/admin … instead use the above to see admin functionality! The professor confirmed that this is okay.

Add lab to system:
- Log into the system
- Click on create new lab
- Enter all information and click add lab
- <u>Wait</u> for super admin approval

Approve a lab (super admin only):
- Super admin logs in
- Click on "list all labs" tab
- A list of labs will be displayed with options to view lab, or approve lab (if not approved yet)
- Click approve lab so lab admin can now view and manage the lab

Access lab page:
- Log in and click on "list all labs" tab
- Click on "view lab" button (assuming the super admin has approved it)

Add equipment (lab admin only):
- Access lab page
- Click "add equipment" button (restricted to lab admin)
- Enter all fields
- Click "add item" when done

Manage and view lab members (lab admin only):
- Access lab page
- To view lab members: click "view members"
- To manage members (approve or remove lab members): click "manage members"

Join a lab
- Click on "list all labs"
- Click on "join this lab" and <u>wait</u> for lab admin to approve it

Book equipment:
- After request to join lab is approved by admin:
- Access lab page
- Select desired equipment
- Click "book this equipment"
- A booking table will be displayed, choose the desired slot in the desired day and click "book"

Comment/rate on labs:
- Access lab page
- Under lab ratings:
  - Select a rate and click "post rating"
  - The rate will be displayed right underneath along with other users' ratings
  - Also an average of all the rates is displayed in the lab details under lab rating
- Under lab comments:
  - Write up your comment and click "post comment"
  - The comment will be displayed right underneath along with other users' comments

Comment/rate on equipments:
- Access lab page
- Under lab equipment list, select the desired equipment and:
  - Select a rate and click "post rating"
  - The rate will be displayed in the "average rating" field for that equipment
  - This is the average of all ratings posted, it also shows the number of ratings posted so far
- For equipment comments:
  - Write up your comment in the equipment comment section and click "post comment"
  - The comment will be displayed right underneath along with other users' comments

View and edit one's profile (super admin can edit anyone's profile)
1. Log in and click on the "list all users" tab
2. Your profile will be the default one displayed. Click "edit" underneath your profile picture
3. You can update your personal info, upload new profile picture or update your password

Send private message:
- Login and click on the "list all users" tab
- From the side menu, click on the user you wish to send message to
- Type message inside the box where it says "type your message here"
- Click "send private message"

View messages:
- Log in and click on "view my messages" tab
- A list of messages will be shown (if there are any)
- If there is a messages, it shows from sender, the messages, option to write and reply the message or delete the message

Recommended lab
- We have a feature where we do matching between user's personal info and the labs in the system and we see which lab could be of interest to a given user
- In the main page, we have a recommended lab section a user can find that lab and join it