বিসমিল্লাহির রাহমানির রাহিম

Mi-12 Assignment Requirement

🚩: 0 [If we have any update we will mention it here]. Do check frequently to see if any updates have been made.

Key Rules:

- Include a minimum of 20 notable GitHub commits on the client side

- Include a minimum of 12 notable GitHub commits on the server side

- Add a meaningful readme.md file with the name of your website, Admin username, password, and live site URL. Include a minimum of 10 bullet points to feature your website.

- Make it responsive for all devices. You must make it responsive for mobile, tablet, and desktop views. Make the dashboard responsive as well.

- After reloading the page of a private route, the user should not be redirected to the login page.

- Use the Environment variable to hide the Firebase config keys and Mongodb credentials.

- Don't use any Lorem ipsum text in your website.

- Show sweet alert/toast/notification for all the crud operations, successful authentication login, and sign-up. Don't use the default browser alert.
- Implement tanstack query in all the data fetching functionality (For GET method only)

Objective

Assessment Introduction: Collaborative Study Platform

This assessment focuses on creating a Collaborative Study Platform that connects students, tutors, and administrators to streamline study session scheduling, resource sharing, and user management. By integrating these functionalities into a single platform, we aim to enhance collaboration, improve access to study materials, and ensure effective management of educational activities. This project will outline the key features, design principles, and implementation strategies necessary to develop a user-friendly and robust platform that supports the dynamic needs of modern education.

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Authentication & Authorization

1. User Registration:
   a. Form for users to sign up as students, tutors, or administrators.
   b. Input fields: name, email, password, and role selection (student, tutor, admin).

2. User Login:
   a. JWT-based authentication.
   b. Token generation upon successful login to manage sessions securely.
   c. Implement social login functionality using Google, and GitHub.

Hints: While implementing social login, ensure the system gracefully assigns the user role as a student.

3. Role-Based Access Control:
   a. Middleware to check user roles and permissions.
   b. Protect routes to ensure only authorized users can access certain endpoints.

Main Tasks

HomePage:

The user can view 5 sections on the homepage, including the navbar and footer:
   1. Navbar
   2. Banner Section
   3. Study session section
   4. Tutor Section
   5. Footer

1. The Navbar includes a logo, website name, login button (when the user is not logged in), and sign-up button (when the user is not

logged in). If the user is logged in, the navbar should display the user profile picture, logout button, and dashboard button.

2. Create a beautiful banner section with a professional background image relevant to this website.

Note: Do the necessary beautification of this section.

3. Show study session card (minimum 3 session card and maximum 6 session card). Show a "see all sessions" button if the study session count exceeds 6 in the study session section. Each session has a title and description, ongoing/closed button (if the registration time is over, show closed, otherwise, show ongoing), and read more buttons.

Note: Show only approved sessions; don't show pending or rejected sessions (see points 13 and 20).

Hints: Check if the current date is greater than or equal to the registration start date and less than or equal to the registration end date.

4. If the user is not logged in, the user will be redirected to the login page by clicking the read more button. If the user is logged in, the user will be redirected to a page where they can view the following information about the selected session:
    a. Session Title
    b. Tutor name
    c. Average rating
    d. Session Description
    e. Registration start date
    f. Registration end date
    g. Class start time
    h. Class end date
    i. Session duration

j. Registration fee (Registration fee can be free (See points 20-b))

k. Reviews of the study session provided by students (see pints 8)

l. Book now button (if the registration time is over, this button will be replaced by a registration closed (disabled) button)

m. Any other necessary information relevant to this session.

Note: Disable the Book now button if the logged user is an admin or tutor.

Hints: filter all reviews and ratings by study session ID (see points 8).

5. If the registration fee is not free (registration fee is 0. 0 means it is free) , by clicking the Book Now button, the user will be redirected to a payment page. After successful payment, the session will be booked successfully. If it is free, the session will be booked without payment.

Hints 1: Create a collection named "bookedSession" to store session info.
Hints 2: save all information about the study session **including logged-in student email, study session ID (You will find _id from study session data. Set this _id value as study session ID value), and tutor email.**

Hints 3: You will find the tutor email from the study session data.

6. Create a tutor section to show all tutors.

Student Dashboard (Private Route):

7. Student dashboard has the following route:
    a. View booked session
    b. Create note
    c. Manage personal notes

d. View all study materials provided by the tutor

8. (View booked sessions route) Students can view his/her booked sessions. Each session has a view detail button. By clicking this button:
    a. Students view detailed information about the session.
    b. Create a review section on the detailed page. Students can post a review and rating for the study session.

Hints 1: Create a collection to store all reviews and ratings. Save reviews with a session ID that comes from booked session data (see points 4 and 5).

9. (Create note route) Students can create his/her notes. This page will have a form with the following fields:

    a. Email readOnly (Logged in user email)
    b. Title
    c. Description

Hints: Create a collection to store notes.

10. (Manage personal notes route) Students can view all personal notes. There will be update and delete buttons for each note to update and delete note.

11. (View all study materials route) Students can access study materials categorized by study session.

    a. They can access only the materials of the sessions he booked.
    b. They can see the images and link (Google Drive link)
    c. They can download the images. Add a download button to each image.
    d. By clicking the link they can visit the URL (Google Drive link)

Hints 1: At first, show all booked sessions. By clicking a single session all materials of the session should be displayed.

Hints 2: Find the materials by study session ID. You will find the session ID in the booked session data.

Tutor Dashboard (Private Route):

12. The tutor dashboard has the following route:
    a. Create study session
    b. View all study sessions created by a tutor
    c. Upload materials
    d. View all materials
    e. View all notes

13. (Create study session) Tutor will create a session with the following fields:
    a. Session Title
    b. Tutor name read-only (Logged in user name)
    c. Tutor email read-only (Logged in user email)
    d. session Description
    e. Registration start date
    f. Registration end date
    g. Class start date
    h. Class end date
    i. Session duration
    j. Registration fee read-only (default 0) (**only admin can modify this field, just set it to 0**)
    k. Status (default pending)
    l. Any other necessary info if you need

14.(View all study sessions route) The tutor can see his/her approved and rejected sessions.

      a. The tutor can send another new approval request to the admin for rejected sessions.

      b. After a new request is sent, the status changes from reject to pending.

Hints: create a new study session with status (pending)

15. (Upload materials route) The tutor will upload materials for his/her approved sessions. He can upload an image and link (Google Drive link) as materials. He can upload multiple materials for a single study session. There will be a form with the following fields:

      a. Title

      b. Study session ID read-only (This ID comes from the study session data he wants to upload)

      c. Tutor email read-only (Logged in user email)

      d. Image upload

      e. Link (Google Drive link)

Hints 1: Create a view link for images and save this link in the database (You can use ImgBB).

Hints 2: Fetch all approved sessions and add an upload material button to each one.

Hints 3: just set an input text field to get the Google Drive link

Hints 4: Create a collection to store materials with the study session ID.

16.(View all materials route) The tutor can view all the materials he uploaded. He can also delete and update the materials.

Admin Dashboard (Private Route):

17. Admin dashboard has the following route:
    a. View all users
    b. View all study session
    c. View all materials

18. (View all users) Admin views all users with the given roles.
    a. He can update a user role

19. (View all users) This page has a search bar. admin can search a user by name or email. The search implementation functionality should be done in the backend.

20. (View all study sessions route) Admin can view all sessions created by the tutor (see point 13).
    a. He can approve a pending session or reject it.
    b. If he approves, a modal popup will appear. This popup will contain these input fields:
        i.   Is the session free or paid?
        ii. If it is paid, he should specify the amount.
        iii. If it is free, just set the value to 0
    c. After successfully rejecting, the rejected session will be removed from the pending list.

21. (In "view all study sessions route") Show an update button and a delete button with approved sessions. Don't show these buttons with pending study sessions The admin can update and delete a session by clicking them.

22. (View all materials route) Admin can view all materials and remove inappropriate and outdated content.

Challenges requirements

***Implement tanstack query in all the data fetching functionality (For GET method only) ***

1. Implement JWT on login (Email/Password and social) and store the token. Make sure to store the token in local storage. Don't use cookies

2. Implement pagination (at least 2 pages)

3. Admin Dashboard:
4. If the admin rejects a study session, a modal popup will appear. This popup will contain these input fields:
   a. Rejection reason
   b. Feedback

5. Tutor Dashboard:
   a. The tutor views the rejection reason and feedback

Optional Tasks

1) Implement Axios interceptor.
2) Create a route in the admin dashboard to make an announcement.
3) Add a menu in the navbar to show all announcements the admin made. This route will be public.
4) Add a route in the student dashboard to show all classmates for each study session he booked.

What to Submit

1. Assignment variant :
2. Admin email:
3. Admin password:
4. Front-end Live Site Link:
5. Client Side Github Repository Link:
6. Server Side Github Repository Link: