Library Management System

Assignment_ID: assignment_category_0008

Requirements video [Link]

Website Theme

This website focuses on Library Management, allowing users to borrow and return books across different categories. Users can also add or update books. For further understanding, please read the detailed requirements below.

Main Requirements

- 1. Make sure your design and website idea is unique. First, finalise your idea (what type of website you want to build). Then google the site design or visit `themeforest` to get your website idea. [You can visit this blog to collect free resources for your website]. However, your website `can not be related to your previous assignments or any demo project displayed in the course or in our conceptual sessions`
- 1. Home page will have a navbar, banner/slider, footer and at least 4 types of book categories having the following information: `relevant image` and `category name`, `relevant button`.
- 2. The navbar will have a website name with the logo, Home, Add Book, All Books, Borrowed Books, and Login. Your website will have these routes. Except for the Home route, other routes will be private.
- 3. After successfully performing any CRUD Create, Read, Update, Delete operation, please, show a relevant toast/sweet alert. (Don't use the browser alert() function. otherwise, marks will be reduced)
- 4. Add two extra sections to the home page in addition to the sections mentioned above.
- 5. Create an `Add Book` page where there will be a form for the user to add a book. The form will have:
 - Image
 - Name
 - Quantity of the book
 - Author Name
 - Category (for example Novel, Thriller, History, Drama, Sci-Fi, etc.)
 - Short description
 - Rating [must]
 - Add button

This will be a private/protected route.

- 6. Book categories are simply the topics of the books. You can choose from [here]. Clicking a category will redirect the user to the page having books based on that category(at least 4 books will be there). Each book will have:
 - Image
 - Name
 - Author Name
 - Category
 - Rating [use React Rating package or any relevant package]
 - Details button
- 7. Clicking the Details button will take the user to the book details route. Each route should display detailed information about the book. What you will include in the detailed information is entirely up to you but make sure it is relevant. Make sure to implement the `Borrow` button, and `Read` button.
- Clicking the `Borrow` button, a modal will pop up. The modal will have a form requiring a return date and a Submit button. Email and Name fields will be filled by the currently logged-in user's email and displayName. By clicking the Submit button, the quantity of that specific book will be reduced by 1. Also, the book will be added to the `Borrowed Books`. If the quantity reduces to 0, disable the `Borrow` button. The quantity can't be negative.
- On the `Borrowed Books` page a user will only see the books that he/she has borrowed(filter borrowed books based on the email of the logged-in user), each book card will have -
 - Image
 - Name
 - Category
 - Borrowed Date
 - Return Date
 - Return Button
- Clicking the "Return button" will increase that specific book quantity by 1, and remove the book card from the "Borrowed Books" page.
- -Clicking on the "Read" button will take the user to a different page where the user can read some content of that book.
- 8. The detailed route will be a private/protected route. Please make sure that if the user is not logged in, the private route redirects to the login page.
- 9. In the All Books route, all the books will be shown with the required information.
 - Image
 - Name
 - Author Name
 - Category

- Rating [use React Rating package or any relevant package]
- Update button
- 10. There will also be a Filter button. By clicking this button, only available books (Quantity > 0) will be shown.
- 11. Each book will have an Update Button. Clicking on the 'Update button' will redirect the user to a form page where the form will have the following fields:
 - Image
 - Name
 - Author Name
 - Category (must use dropdown menu)
 - Rating
 - Submit button

Clicking the Submit button will update the information. This will be a private/protected route.

- 12. You Must implement Email and password-based Authentication. This means you will have to implement the Registration and the login page. Users should be able to toggle between Login and Registration view.
- > **Note**: Do not enforce the `forget or reset password feature` and the `email verification method`, as it will inconvenience the examiner. If you want, you can add email verification/forget the password after receiving the assignment result.

On the Registration page, display errors when:

The password

- is less than 6 characters
- don't have a capital letter
- don't have a special character

On the Login page, display errors when:

- password doesn't match
- email doesn't match

You can take the error message from Firebase. You can show the error below the input fields or via alert/toast. If you use alert/toast, do not implement the browser alert.

- 14. Also, implement at least 'one extra login' which could be (facebook, github, google, etc).
- 15. Once logged in, the user name, profile picture and the logout button should appear on the navbar. If the user clicks on the logout button, make sure to log him/her out.
- 16. Add a 404 page (not found page)

Bonus Requirements

- 1. Use JWT token for doing the CRUD operations in the "All Books" and `Add Book` routes.
- 2. **Commits & readme:**
 - Minimum 10 meaningful git commits on the client-side repository.
 - Minimum 5 meaningful commits on the server-side repository.
- Create a readme for client-side and write about your project (at least 5 bullet points). ** Remember to add your client-side live link to your website here.**
- 3. After reloading the page of a private route, the user should not be redirected to the login page.
- 4. Make the website responsive. Make sure the site looks different on desktop and mobile responsive. Tablet responsive is optional
- 5. Implementing a dark/light theme toggle for the home page. It's optional to implement the theme toggle for the entire website.
- 6. Don't allow borrowing a book twice for a single user. But after returning a book, the user can borrow that specific book again.

Optional Requirements

- 1. You can add a "librarian" role to a specific email/password registered user. By using that account, the user can navigate the "All Books" route, and perform all the adding or updating operations. But a normal user, not having a "librarian" role, can't do these operations. If you can do this, please, provide the email and password of the account which has the "librarian" role in the README.md file.
- 2. Use Axios interceptors for handling network requests.
- 3. Use Swiper JS for banner and slider.
- 4. Use the React Hook Form for handling any form.
- 5. Use ReactToPDF or any relevant package to make the PDF version of the "Read" page of a book.

Additional information

- 1. You cannot load the data from a .json file. The data must be stored in the database and you must use data from the database.
- 2. You can use a local or host image anywhere or use pictures from the internet. And it's ok if you have the image url, but the image link doesn't work.
- 3. You can use vanilla CSS or any CSS library.
- 4. Try to host your site on Firebase (Netlify hosting will need some extra configurations)
- 5. Host your server-side application on Vercel. If needed, you can host somewhere else as well.
- 6. Make Sure you deploy server-side and client-side on the first day. If you have any issues with hosting or GitHub push, please join the "Github and deploy" related support session.

What to submit

- 1. Your github client-side repository
- 2. Your github server-side repository
- 3. Your live website link

Deadline

Read the Text Instruction.

No Pain, No Gain:

- The most beautiful moments in life comes after going through hardships and challenges.