QUICK NOTES

CS315

COURSE PROJECT

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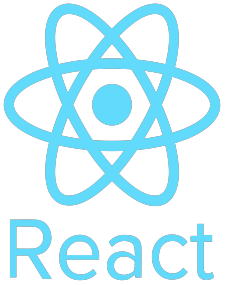
Introduction

- **Quicknotes** is an brief notes creation web application powered by **Database makers**
- With QuickNotes, users can easily create, update, and delete notes, making it an ideal tool for keeping track of important information. Whether you need to jot down a quick reminder or organize your thoughts, QuickNotes is a convenient and intuitive solution.

Tech Stack & Installation



CS315 workspace GitHub Repository

What’s in our DATABASE?

Schema :

1) _id : automatically generated by mongoDB for each user
2) username: use for authentication
3) Password: Hashed password
4) email: user input
5) createdAT : Time when user is created
6) updatedAT : Time when user is updated

Primary keys are :

1) _id : automatically generated by mongoDB
2) username
3) email

User database


```
_id: ObjectId('64384c62666fc2fed6fc2886')
username: "xyz"
password: "$2b$12$4YnkdXi3KS1Wv0ur6uK6Ae0Xb7Mj68T7W9ZPmu4kpmoHiazHURNq."
email: "xyz@abc.com"
createdAt: 2023-04-13T18:39:30.468+00:00
updatedAt: 2023-04-13T18:39:30.468+00:00
```

What's in our DATABASE?

Schema:

1) _id: automatically generated by mongoDB
2) title: user input
3) description: user input
4) tag: user input
5) user: user input
6) createdAt: time when note is created
7) updatedAt: time when note is last updated

Primary key are :

1) _id : automatically generated by mongoDB

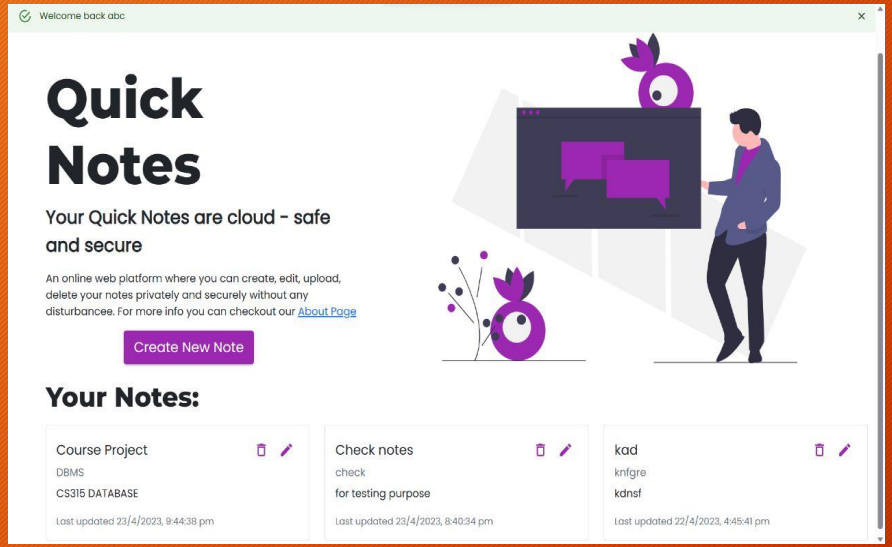
Foreign Key :

1) user : each user can access notes corresponding to their user_objectid.

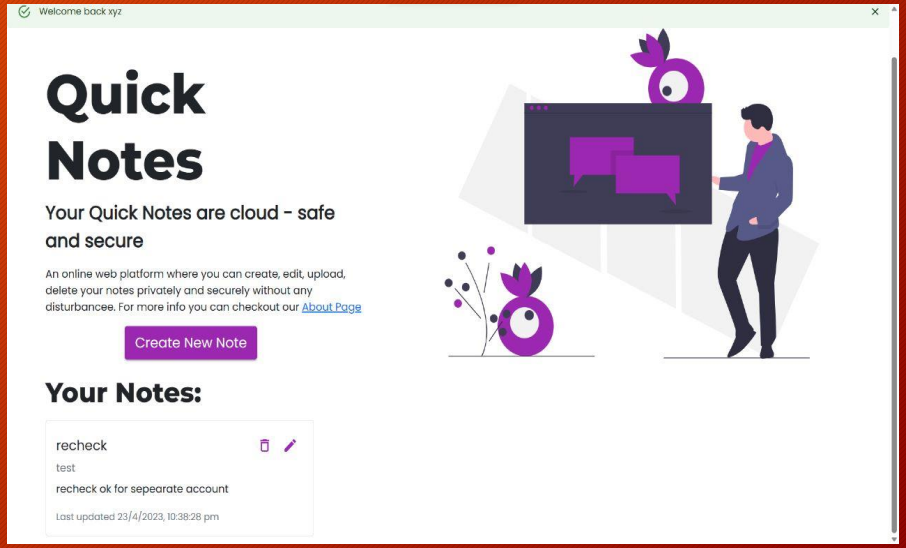
Notes database

```
_id: ObjectId('64384dfc666fc2fed6fc288a')
title: "recheck"
description: "recheck ok for sepearate account"
tag: "recheck "
user: ObjectId('64384c62666fc2fed6fc2886')
createdAt: 2023-04-13T18:46:20.321+00:00
updatedAt: 2023-04-13T18:46:20.321+00:00
```

Quick Notes

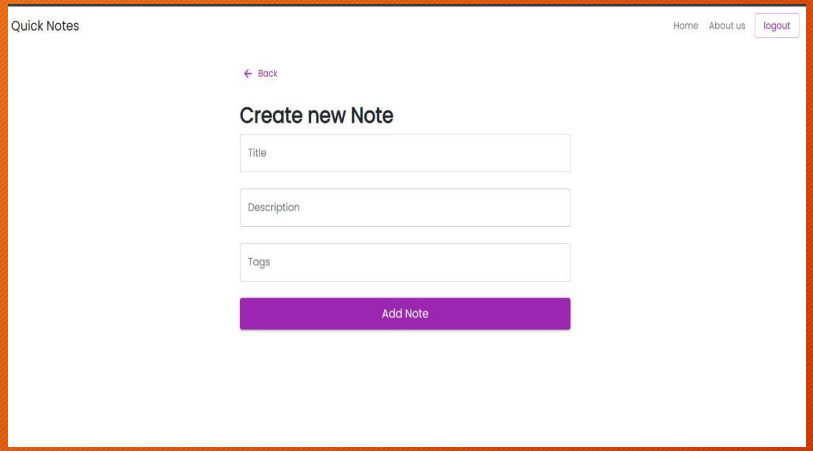


Displayed on main screen after logging in for that user



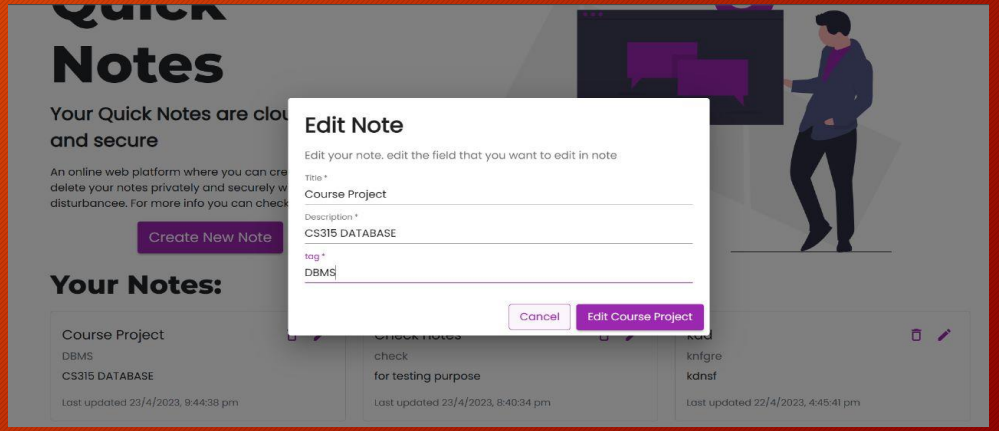
Your notes are sorted descendingly based on last updated time

NOTES

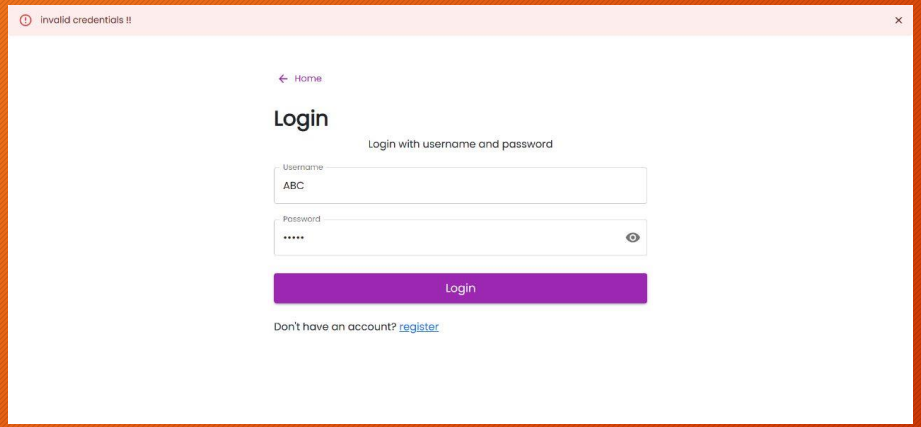


Create new note creates a new note and inserts it into notes database

Edit note fetches that note and changes it into notes database

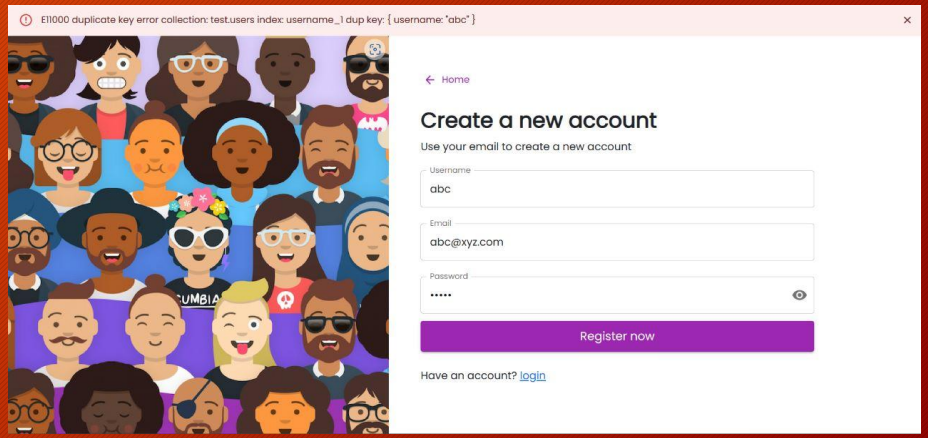


USER



Login user looks into user database for entered credentials and authenticate

Register user adds user entry into user database



3NF Database

- We can show that our database is in 3NF-
- The User schema-
  - _ID, username, email are candidate keys
  - Password depends directly on username
  - Creation and updation time depends directly on _ID
- The Notes schema-
  - _ID is a candidate key
  - All other keys depends directly on _ID

Queries

- Register User:
  - Post request : Push username, email id and password on database
  - Get request : Acknowledgment user has been created
- Login
  - Post request : Validate if username and password matches with that in database or not.
  - Get request : Successfully logged in.
- Create notes
  - Post request : Push input fields and createAt and updateAt on database server
  - Get request : Acknowledgement new note has been created
- Update notes
  - Put request : Update input fields and updatedAt time on database server
  - Get request : Acknowledgement note has been updated
- Show notes
  - Get request : Fetch all notes created by the user in sorted order wrt update time
- Delete notes
  - Delete request : Delete the note from the database

Search features

- Search notes by Text :
  The user can search for all their notes that contain a particular keyword.

- Filter notes by date :
  The user can also filter notes created/updated between specific dates.

Features

- Each user has its own unique id (foreign key) to access notes from notes database.
- Each user can create, read, update and delete their notes.
- User cannot access notes of created by other users
- Notes are sorted in descending order wrt their updated date.
- Username and email id are unique for each users.

Thank You!