

QUICK NOTES

CS315
COURSE PROJECT

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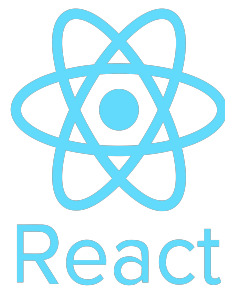
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Introduction

- **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

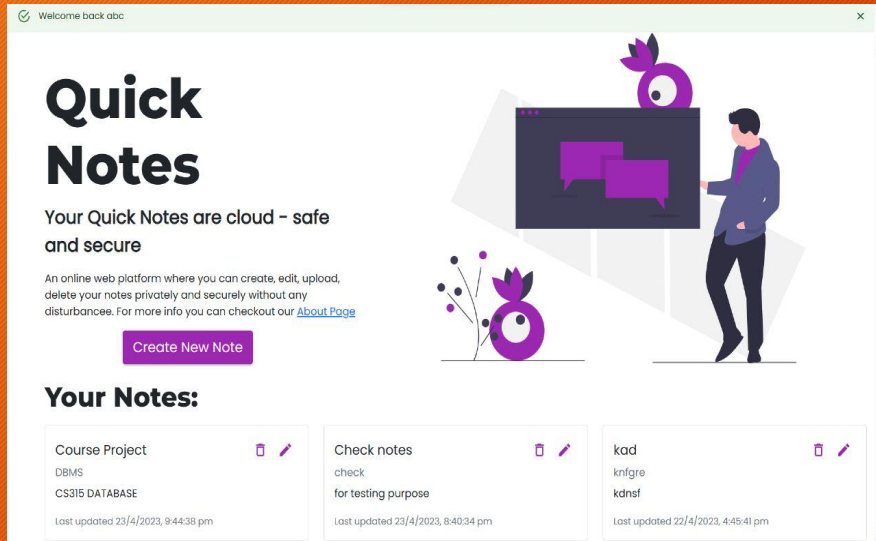
Foreign Key :

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

Notes database

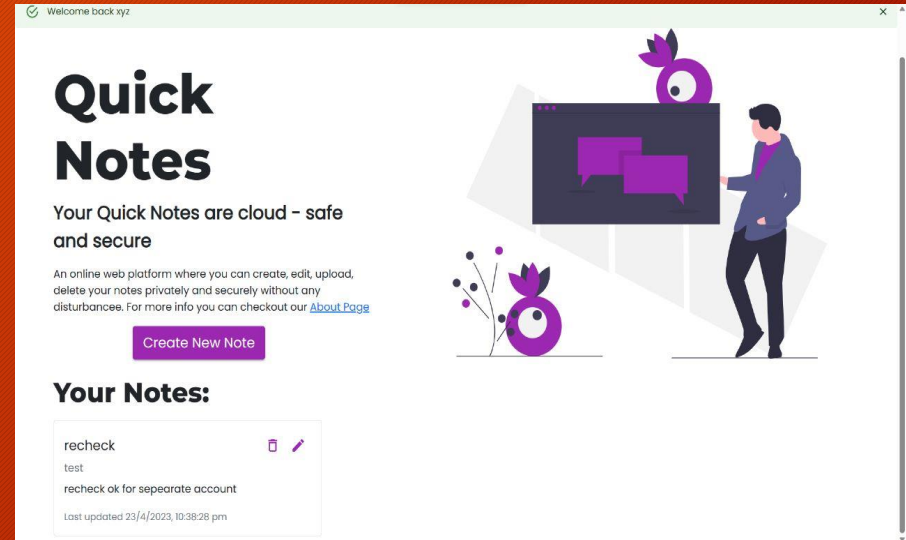
```
_id: ObjectId('64384dfc666fc2fed6fc288a')  
title: "recheck"  
description: "recheck ok for sepearate account"  
tag: "recheck "  
user: ObjectId('64384c62666fc2fed6fc2886')  
createdAt: 2023-04-13T18:46:20.321+00:00  
updatedAt: 2023-04-13T18:46:20.321+00:00
```

Quick Notes



Your notes are sorted
descendingly based on last
updated time

Displayed on main screen after
logging in for that user



NOTES

Quick Notes Home About us logout

[← Back](#)

Create new Note

Title

Description

Tags

[Add Note](#)

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

Edit note fetches that note and changes it into notes database

Quick Notes

Your Quick Notes are cloud-based and secure

An online web platform where you can create, edit, delete your notes privately and securely without any disturbances. For more info you can check [About us](#)

[Create New Note](#)

Your Notes:

Course Project	check notes for testing purpose	knfgr kdnst
DBMS		
CS315 DATABASE		
Last updated 23/4/2023, 9:44:38 pm	Last updated 23/4/2023, 8:40:34 pm	Last updated 22/4/2023, 4:45:41 pm

Edit Note

Edit your note, edit the field that you want to edit in note

Title *

Course Project

Description *

CS315 DATABASE

tag *

DBMS

[Cancel](#) [Edit Course Project](#)

USER

Invalid credentials !!

[← Home](#)

Login

Login with username and password

Username
ABC

Password

Login

Don't have an account? [register](#)

Login user looks into user database for entered credentials and authenticate

Register user adds user entry into user database

E10000 duplicate key error collection: test.users index: username_1 dup key: {username: 'abc'}

[← Home](#)

Create a new account

Use your email to create a new account

Username
abc

Email
abc@xyz.com

Password

Register now

Have an account? [login](#)

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!