

# TwitterClone Project

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# Description of Project

- I have created project TwitterClone project using mern stack .
- Main purpose of creating this project is practice all skills that I have learnt through the internshala.
- I have explain all the the thing line by line.
- Ok lets start
- Starting with backend

# Backend

- I have used library like below mention
- Node.js (main backend language) .
- Express.js (framework based on nodejs to create REST APIs)
- Mongoose (to connect MongoDB with express.js)
- bcrypt (to encrypt password when stored in DB)
- multer (to upload images)
- Nodemon

- 1. Authentication using JWT token, i.e user login, and registration.
- 2. Create and Delete a Tweet.
- 3. Add an Image in a Tweet.
- 4. Like and Dislike a Tweet.
- 5. Add a reply to a tweet
- 6. Retweet
- 7. Read all the tweets in app
- 8. Create and Edit a User.
- 9. Follow and Unfollow User.
- 10. View a user profile details
- 11. Update Profile picture including uploading images using multer.

- I have created all the api that you mention in the documentation.
- I have created 7 files
- 1:Controller
- 2:Router
- 3:Model
- 4:route
- 5:upload
- 6:utils
- 7:..env

# I am explaining all files line by line

- Route:
- In the route file I have mention 4 component
- 1:authUser.js:
- In this file I have create login and register api with middleware.
- 2:file.js:
- Here I have created image uplaoding api using multer.

- 3:tweet:
- Here I have mention all the tweet related api like  
tweet,singletweet,multipletweet,retweet,reply ,comment ,like,unlike,etc.
- 4:User:
- Here I have created api like user related like
- Follow,unfollow,edit ,delete etc.

# 2:Controller

- Here I have create thre module
- 1:authUser:
- Here I have created all the function related authuser route like login user ,register user ,
- 2:tweets:
- Here I have created all the function realted tweet route like tweet,singletweet,multipletweet,retweet,reply,comment etc
- 3>User:
- Here I have created all the function related user route like edit,follow,unfollow,delete etc.



# module

- Here I have create two schema
- 1:User Schema:
- In the user schema I have added name ,username,location,password ,email, dob etc.
- 2:Tweet Schema:
- In the tweetSchema I have added content,imgeurl,tweetedBy,tweetedBy,likes,unlikes,comment,reply etc;

# 4:database

- In this file I have database module using mongoose.
- Through the module I have connect database to the server.

# 5:middleware

- In the middleware I have created authmiddleware module .
- Through this module I have check validation and that user authorized user are not before sending res to the the api.
- I have used jwt authentication to check user authorized or not.

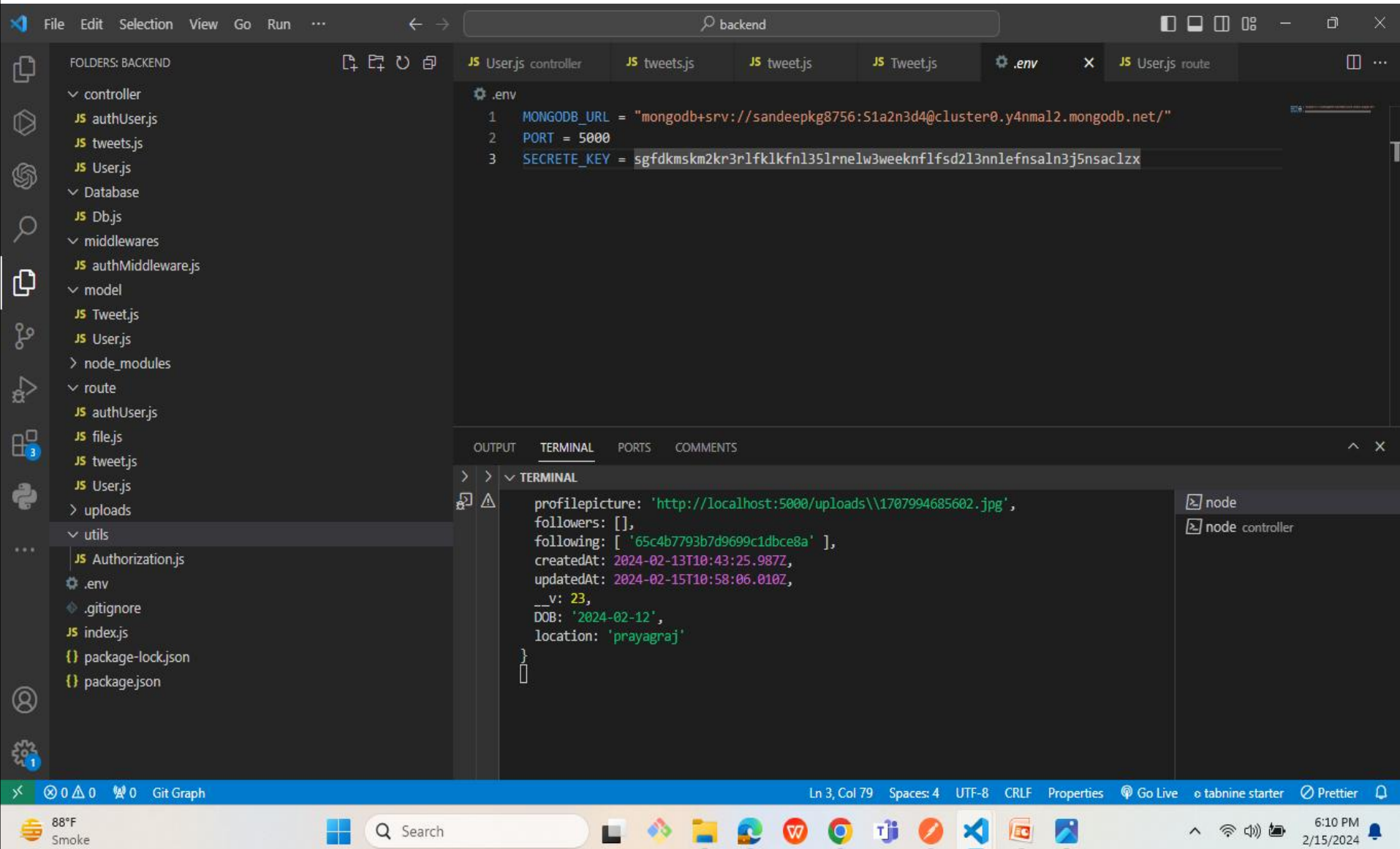
## 6:utils

- Here I have store all the unique function that are used all the files.
- Here I have created function to convert to the password In to the bcrypt password and return it.
- And also created a that verify password that are matched or not return

# 7:..env file

- Please when we unzipped file please added in the backend below file
- MONGODB\_URL =  
"mongodb+srv://sandeepkg8756:S1a2n3d4@cluster0.y4nmal2.mongodb.net/"
- PORT = 5000
- SECRETE\_KEY =  
sgfdkmskm2kr3rlfklkfnl35lrnelw3weeknflfsd2l3n  
nlefnsaln3j5nsaclzx

# Screenshot of structure of all file



# Frontend Part

- I have used all library to create frontend that you mention in the documentation except bootstrap in the place of bootstrap I have used tailwind css and daisyui framework.
- I have mention all the screen related the application .
- We have started from structure of application component.

# File Strucutre

The image shows a screenshot of the Visual Studio Code interface. The left sidebar displays the 'FOLDERS: CLIENT' tree structure:

- public
- src
  - assets
  - components
    - common** (selected)
      - JS CommentBox.jsx
      - JS FriendProfile.jsx
      - JS PostItem.jsx
      - JS Retweet.jsx
      - JS TweetBox.jsx
      - JS TweetPage.jsx
      - JS UpdateProfile.jsx
    - routePage
      - JS Home.jsx
      - JS Profile.jsx
      - JS Sidebar.jsx
    - pages
      - JS Layout.jsx
      - JS Login.jsx
      - JS Register.jsx
    - redux
      - JS authSlice.jsx
      - JS axiosConfig.js
      - JS Store.jsx
    - # App.css
    - JS App.jsx
    - JS data.jsx
    - # index.css
    - JS main.jsx

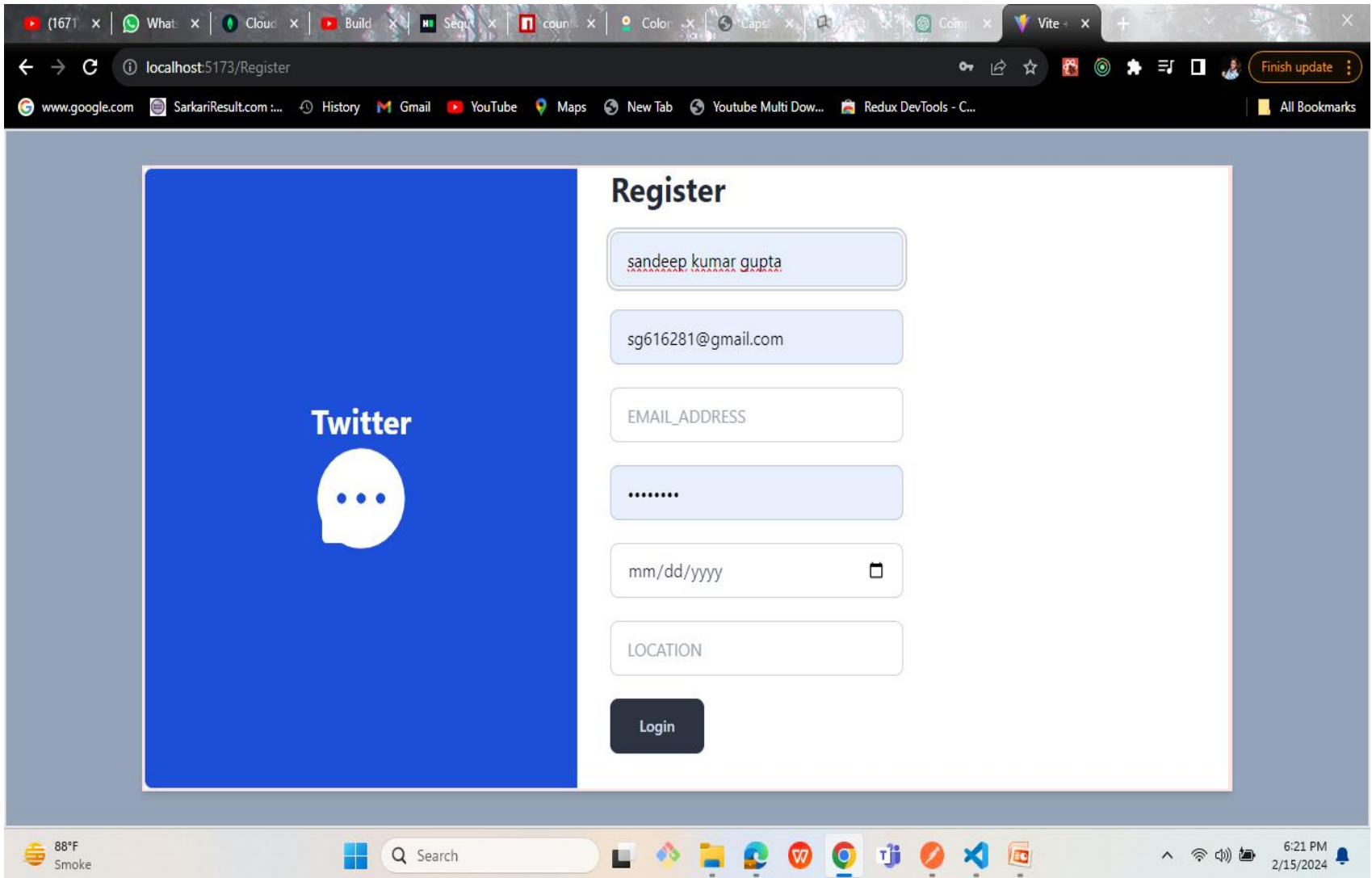
The main editor area displays a large, faint VS Code logo. The bottom panel shows the 'TERMINAL' tab with the following content:

```
> > > nc/components/Sidebar.jsx, /src /index.css (x28) [ ]
```

Below the terminal, there are buttons for 'node' and 'powershell Twitter-Clone'. The status bar at the bottom indicates the temperature is 88°F, the location is Smoke, and the time is 6:19 PM on 2/15/2024.



# Register Page



The screenshot displays a web browser window with the address bar showing `localhost:5173/Register`. The page layout includes a blue sidebar on the left with the Twitter logo and a white main content area on the right. The main area is titled "Register" and contains several input fields for user registration. The first field contains the text "sandeep kumar gupta". The second field contains the email address "sg616281@gmail.com". The third field is labeled "EMAIL\_ADDRESS". The fourth field contains a series of dots. The fifth field is labeled "mm/dd/yyyy" and includes a calendar icon. The sixth field is labeled "LOCATION". Below the input fields is a dark blue "Login" button. The browser's taskbar at the bottom shows the system clock as 6:21 PM on 2/15/2024, along with various application icons and a search bar.

Register

sandeep kumar gupta

sg616281@gmail.com

EMAIL\_ADDRESS

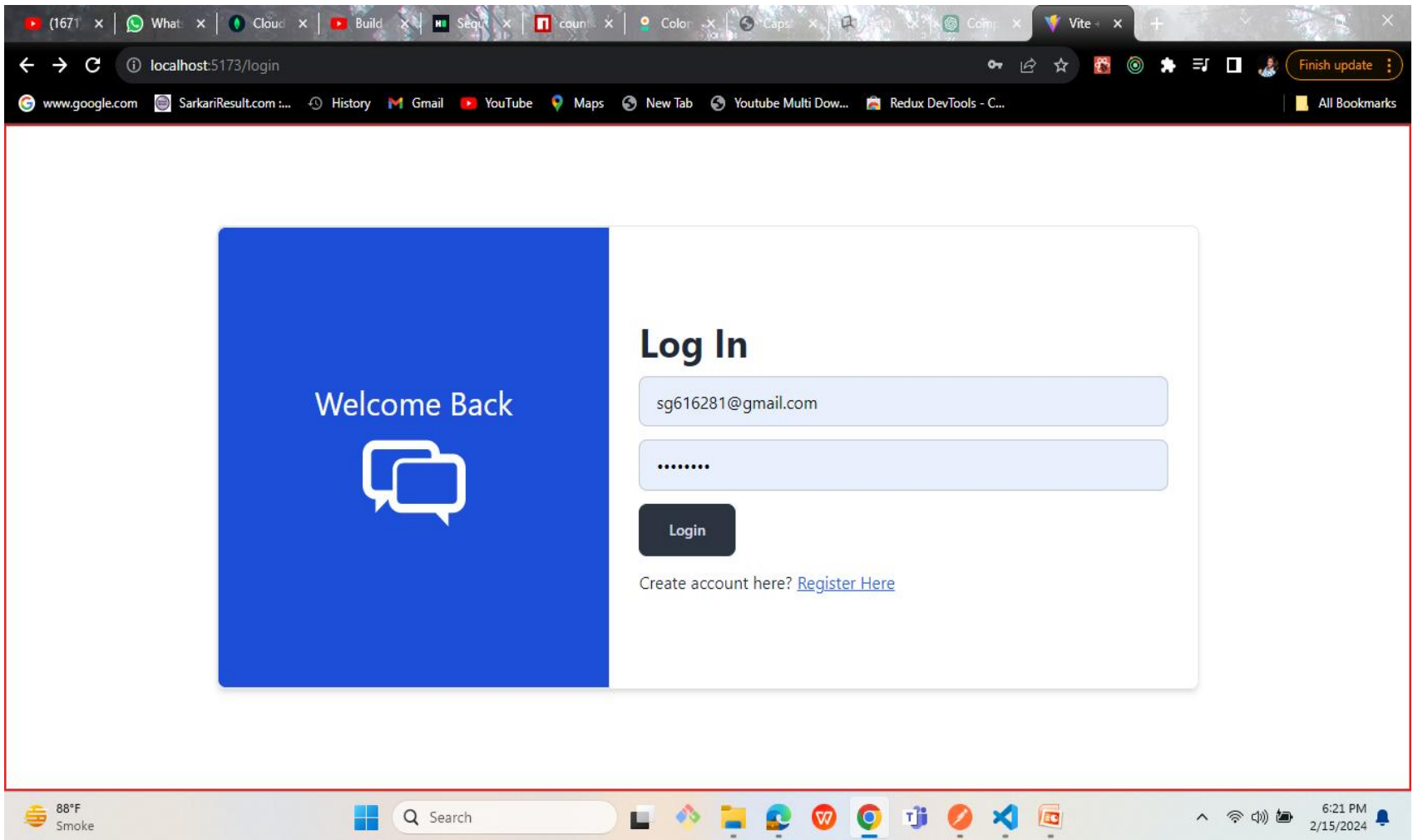
.....

mm/dd/yyyy

LOCATION

Login

# Login Page



# Home page

The screenshot shows a web browser window with the address bar displaying `localhost:5173/Home`. The browser's tab bar includes several open tabs: (1671), What, Cloud, Build, Sequ, coun, Color, Caps, Com, Vite, and a plus sign for more. The browser's address bar also shows a search bar and a "Finish update" button. Below the address bar, a bookmark bar lists various websites: www.google.com, SarkariResult.com, History, Gmail, YouTube, Maps, New Tab, Youtube Multi Dow..., and Redux DevTools - C... The main content area of the browser displays a home page with a blue sidebar on the left. The sidebar contains a speech bubble icon, three buttons labeled "Home", "Profile", and "Logout", and a circular profile picture of a person named "sandeep". The main content area is titled "Home" and features a "Tweet" button in the top right corner. The content area displays a list of tweets. The first tweet is from "sandeep @sg616281" posted "6 hours ago", with the text "nice playing sports". It has 1 heart, 0 replies, and 1 retweet. Below this tweet is a retweet by "@sg616281" of the same tweet. The second tweet is also from "sandeep @sg616281" posted "7 hours ago", with the text "nice cricket box". It has 1 heart, 0 replies, and 0 retweets. The third tweet is from "hanshraj @sandy123" posted "4 days ago", with the text "playing kids". The browser's taskbar at the bottom shows the system clock as 88°F Smoke, a search bar, and various application icons including Windows, Search, File Explorer, Edge, Word, Chrome, and others. The system clock also displays the time as 6:22 PM and the date as 2/15/2024.

Home

Tweet

sandeep @sg616281 6 hours ago  
nice playing sports  
1 0 1

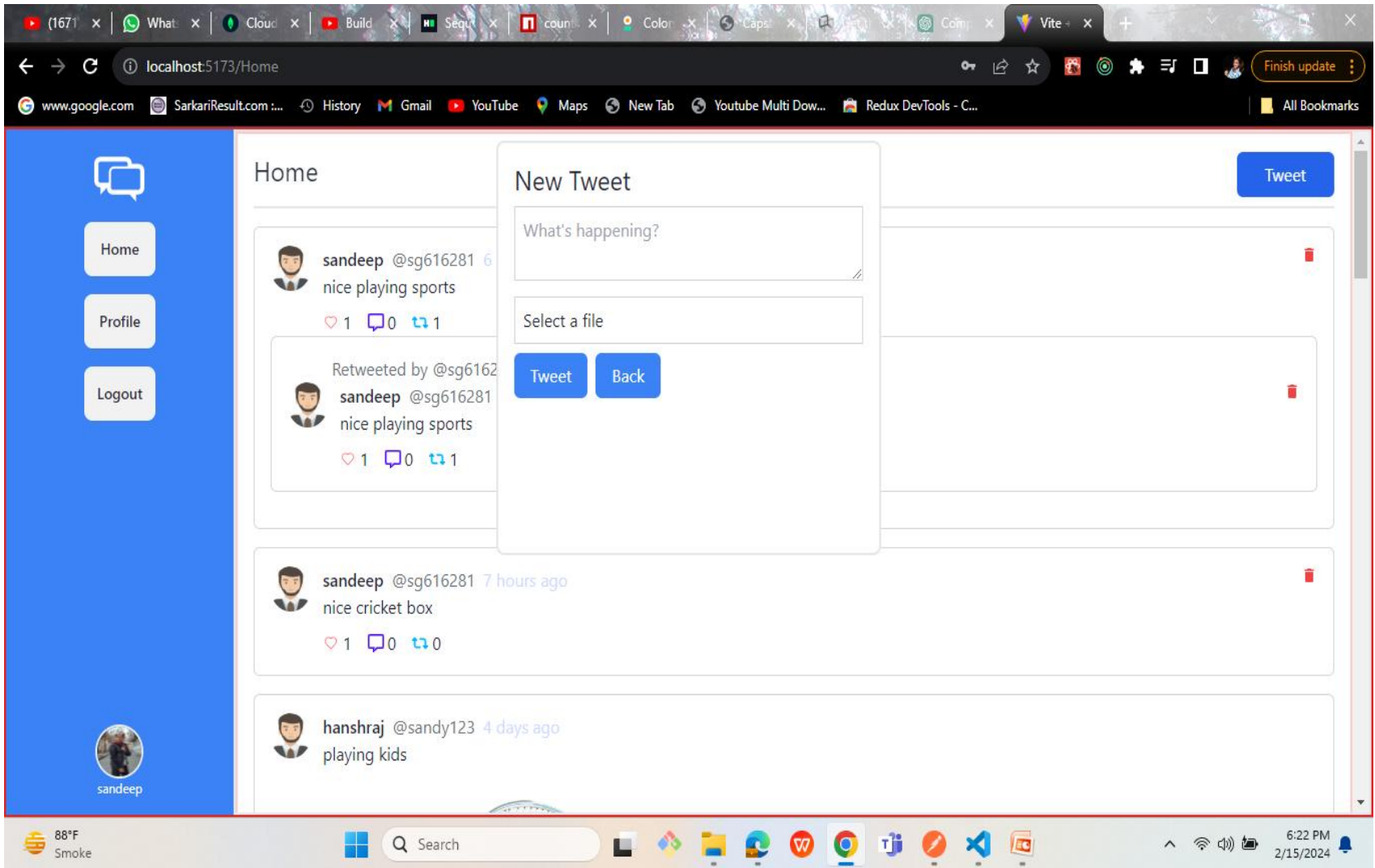
Retweeted by @sg616281

sandeep @sg616281 6 hours ago  
nice playing sports  
1 0 1

sandeep @sg616281 7 hours ago  
nice cricket box  
1 0 0

hanshraj @sandy123 4 days ago  
playing kids

# Tweet Box



# Profile

The screenshot displays a web browser window with multiple tabs open, including (1671), What, Cloud, Build, Sequ, coun, Color, Caps, and Vite. The address bar shows the URL `localhost:5173/profile`. The browser's toolbar includes navigation buttons, a search bar, and a "Finish update" button. The page content is divided into a blue sidebar and a main profile area. The sidebar contains a chat icon, buttons for "Home", "Profile", and "Logout", and a small profile picture at the bottom labeled "sandeep". The main profile area features a blue header, a profile picture, the name "sandeep", the username "@sg616281", a bio, a location pin for "prayagraj", and follower/following counts. Below the profile information are two tweets: "nice cricket box" and "nice playing sports", both with 1 like and 0 replies. A retweet by @sa616281 is also visible. The browser's taskbar at the bottom shows the Windows logo, a search bar, and various application icons.

Profile

Home

Profile

Logout

sandeep

@sg616281

2024-02-13T10:43:25.987Z

prayagraj

0 Followers 1 Following

sandeep @sg616281 7 hours ago

nice cricket box

1 0 0

sandeep @sg616281 6 hours ago

nice playing sports

1 0 1

Retweeted by @sa616281

88°F Smoke

Search

6:22 PM 2/15/2024

# Update Profile Box

The screenshot displays a web application interface for a user profile. On the left, a blue sidebar contains navigation buttons: 'Home', 'Profile', and 'Logout'. The main content area shows the user's profile for 'sandeep' (@sg616281), including a profile picture, bio, location (prayagraj), and follower/following counts. An 'Update Profile' modal box is open, allowing the user to edit their name, location, birth date (mm/dd/yyyy), and profile picture. The modal includes 'EDIT' and 'Back' buttons. Below the profile, there are two tweets from the user, each with a 'Retweeted by @sa616281' notice. The browser's address bar shows 'localhost:5173/profile', and the Windows taskbar at the bottom indicates the system time as 6:22 PM on 2/15/2024.

Profile

Update Profile

Name

Location

mm/dd/yyyy

Select a file

EDIT Back

Home

Profile

Logout

sandeep

@sg616281

2024-02-13T10:43:25.98

prayagraj

0 Followers 1 Following

sandeep @sg616281

nice cricket box

1 0 0

sandeep @sg616281 6 hours ago

nice playing sports

1 0 1

Retweeted by @sa616281

88°F Smoke

Search

6:22 PM 2/15/2024

# Tweet and reply page

(1671 x | What: x | Cloud: x | Build: x | Seq: x | coun: x | Color: x | Caps: x | Com: x | Vite: x | +

localhost:5173/tweetpage/65cda7c45ea23714e8a61fd0

www.google.com | SarkariResult.com ... | History | Gmail | YouTube | Maps | New Tab | Youtube Multi Dow... | Redux DevTools - C... | All Bookmarks


Home

Profile

Logout

sandeep


## Tweet

 **sandeep** @sg616281 6 hours ago

nice playing sports

♡ 1 💬 0 🔁 1

Retweeted by @sg616281

 **sandeep** @sg616281 6 hours ago

nice playing sports

♡ 1 💬 0 🔁 1

## Reply

Reply

Submit

87°F Smoke

Search

6:26 PM 2/15/2024



# Friends Profile

The screenshot displays a web browser window with the address bar showing `localhost:5173/friendprofile/65cb47cddd266543c02b4607`. The browser's tab bar includes several open tabs: (1671), What, Cloud, Build, Sequ, coun, Color, Caps, Vite, and a plus sign for more tabs. The browser's address bar also shows a "Finish update" button. The browser's toolbar includes links to [www.google.com](#), [SarkariResult.com](#), History, Gmail, YouTube, Maps, New Tab, Youtube Multi Dow..., and Redux DevTools - C... A "All Bookmarks" button is also visible.

The main content area shows a user profile for "sandeep" with the handle `@sg616281`. The profile information includes a profile picture, a blue header, and a bio. The bio text is: "2024-02-12 2024-02-13T10:43:25.987Z prayagraj 0 Followers 1 Following". Below the profile information are two posts by "sandeep" from 7 hours ago. Each post has a red delete icon in the top right corner. The first post says "nice cricket box" and has 1 like, 0 comments, and 0 retweets. The second post says "nice playing sports" and has 1 like, 0 comments, and 1 retweet. The third post is partially visible and says "nice playing sports".

The browser's taskbar at the bottom shows the system clock as 6:29 PM on 2/15/2024. The taskbar also includes icons for the Start menu, Search, and various applications: File Explorer, Edge, Word, Chrome, Teams, OneDrive, and a red icon.



- All the button like likes,unlikes,comment,retweet are work propelry in all the pages;
- When we click username directly move to the the user profile page.
- When we click image and name directly move to the tweet and reply pages

- Here I have used vite for installing react so please start react application through the given command
- Npm run dev

Thank you