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NEXUS

(RNXG)

PROJECT-REPORT

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WHAT IS NEXUS?

“Nexus” is a Web Application which helps community to have a social connectivity within their groups. This app enables users to have their profile, and they can add posts, images, videos, quotes, captions to their feed.

It is a Social Media app which contains the basic social medium features to enhance the ability similar to any other social media applications ongoing worldwide.

TECHSTACK USED:

1. REACT
2. MONGO DB
3. EXPRESS
4. NODEJS

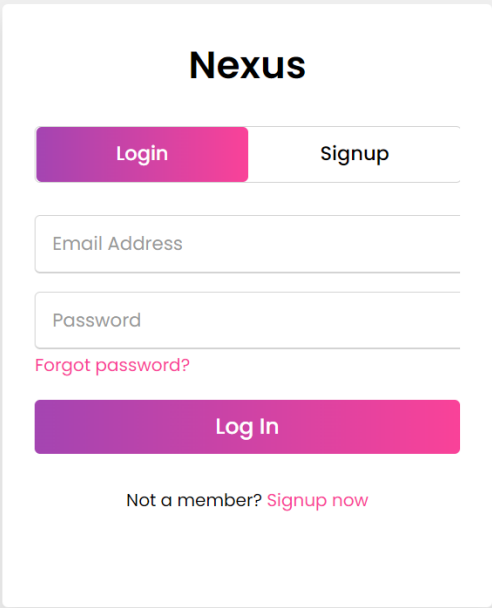
INTRODUCTION:

Nexus is a modern application with new enhanced features commonly used today in Social-media applications.

Key Highlights:

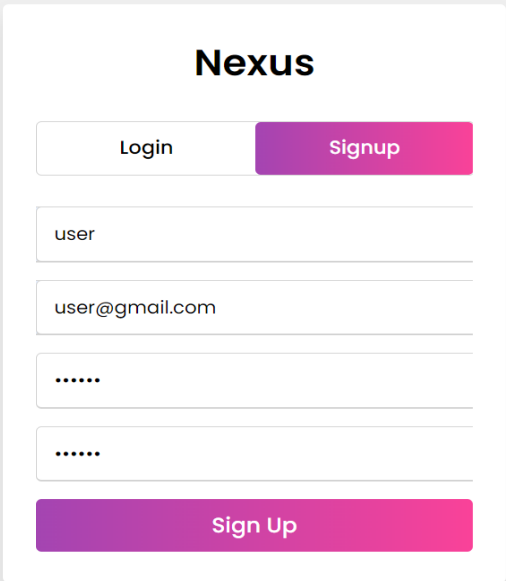
- 1) *There is a fully-functional Login/Sign-up System.*
- 2) *Users can post Images/Gifs.*
- 3) *Users can post description.*
- 4) *Users can like others post.*
- 5) *Users can follow each other. (POSTMAN)*
- 6) *Users can update their posts/ Delete their post. (POSTMAN)*
- 7) *There will be personal profile for each user.*
- 8) *We can search another user. (POSTMAN)*
- 9) *Users can delete their account as well. (POSTMAN)*

Let's start our Navigation!



The image shows a login and signup form for a service named 'Nexus'. The form is centered on a light gray background. It has a title 'Nexus' at the top. Below the title are two buttons: 'Login' (highlighted in pink) and 'Signup'. Under these buttons are two input fields: 'Email Address' and 'Password'. Below the 'Password' field is a link 'Forgot password?'. At the bottom of the form is a large pink button labeled 'Log In'. Below this button is the text 'Not a member? Signup now'.

- 1) Every new user comes he is redirected to login page(<http://localhost:3000/login>)
- 2) First of all, he has to Sign up.
- 3) After registering new user will be added to MongoDB.



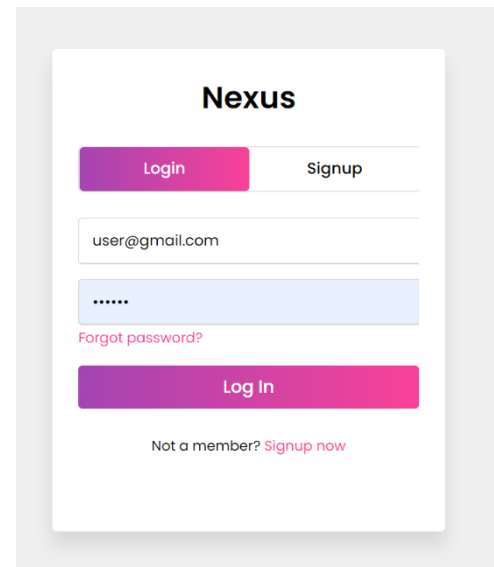
The image shows a signup form for a service named 'Nexus'. The form is centered on a light gray background. It has a title 'Nexus' at the top. Below the title are two buttons: 'Login' and 'Signup' (highlighted in pink). Under these buttons are four input fields: a username field with the text 'user', an email field with the text 'user@gmail.com', a password field with masked characters '.....', and a confirm password field with masked characters '.....'. At the bottom of the form is a large pink button labeled 'Sign Up'.

User Registered on Database

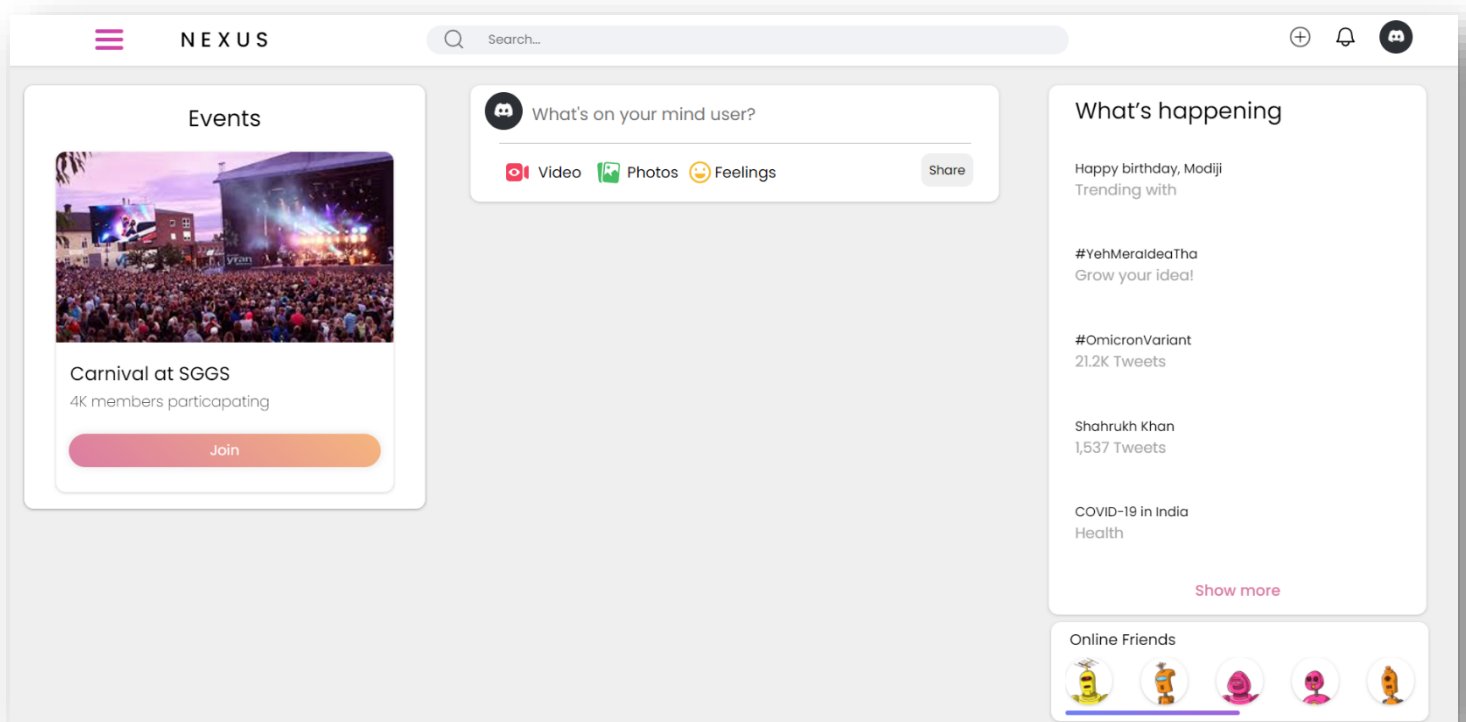
```
_id: ObjectId("61db1bf81d894023afc7163e")
username: "user"
email: "user@gmail.com"
password: "$2b$10$8p7kjTaNFId3c07ZocyJEeCm/9vI27s8SFZj4J8nc2Z9fUTKXoXqW"
profilePicture: ""
coverPicture: ""
> followers: Array
> following: Array
isAdmin: false
createdAt: 2022-01-09T17:31:36.847+00:00
updatedAt: 2022-01-09T17:31:36.847+00:00
__v: 0
```

4) After Signup User will be redirected on login page.

5) Now user must enter right credentials.



6) Now he will be logged in!



7) This type of interface will appear.

8) There are no posts currently because user haven't posted anything yet and he doesn't anyone also.

9) So, let's make friends first of all. (*Postman used*)

Note: (To make friend we have to follow someone so we already made some dummy users for testing)

Id of user that we want to follow
(id from database)

PUT `http://localhost:8800/api/users/61d87bb2cd76ca7e0c64fa8e/follow` Send

Params Auth Headers (8) Body ● Pre-req. Tests Settings Cookies Beautify

raw JSON

```

1 {
2   ... "userId": "61db1bf81d894023afc7163e"
3 }

```

Our userId

Body Cookies Headers (16) Test Results 200 OK 145 ms 816 B Save Response

Pretty Raw Preview Visualize JSON

```

1 "user has been followed"

```

10) After we follow another user, his posts will also get loaded.

NEXUS

Search...

Events

Carnival at SGGS
4K members participating
Join

What's on your mind user?

Video Photos Feelings Share

adwait • Follow 6 hours ago

Unless you know the same pain,
you cannot truly know another.

0 likes Comments
feel pain

What's happening

Happy birthday, Modiji
Trending with

#YehMeraIdeaTha
Grow your idea!

#OmicronVariant
21.2K Tweets

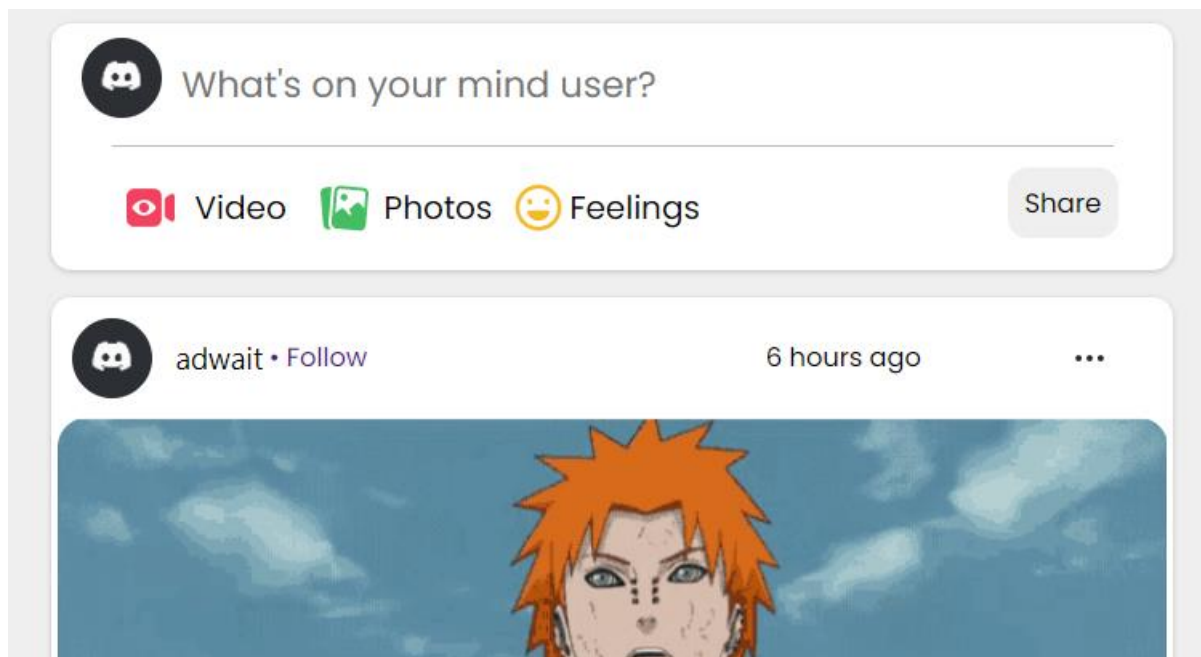
Shahrukh Khan
1,537 Tweets

COVID-19 in India
Health

Show more

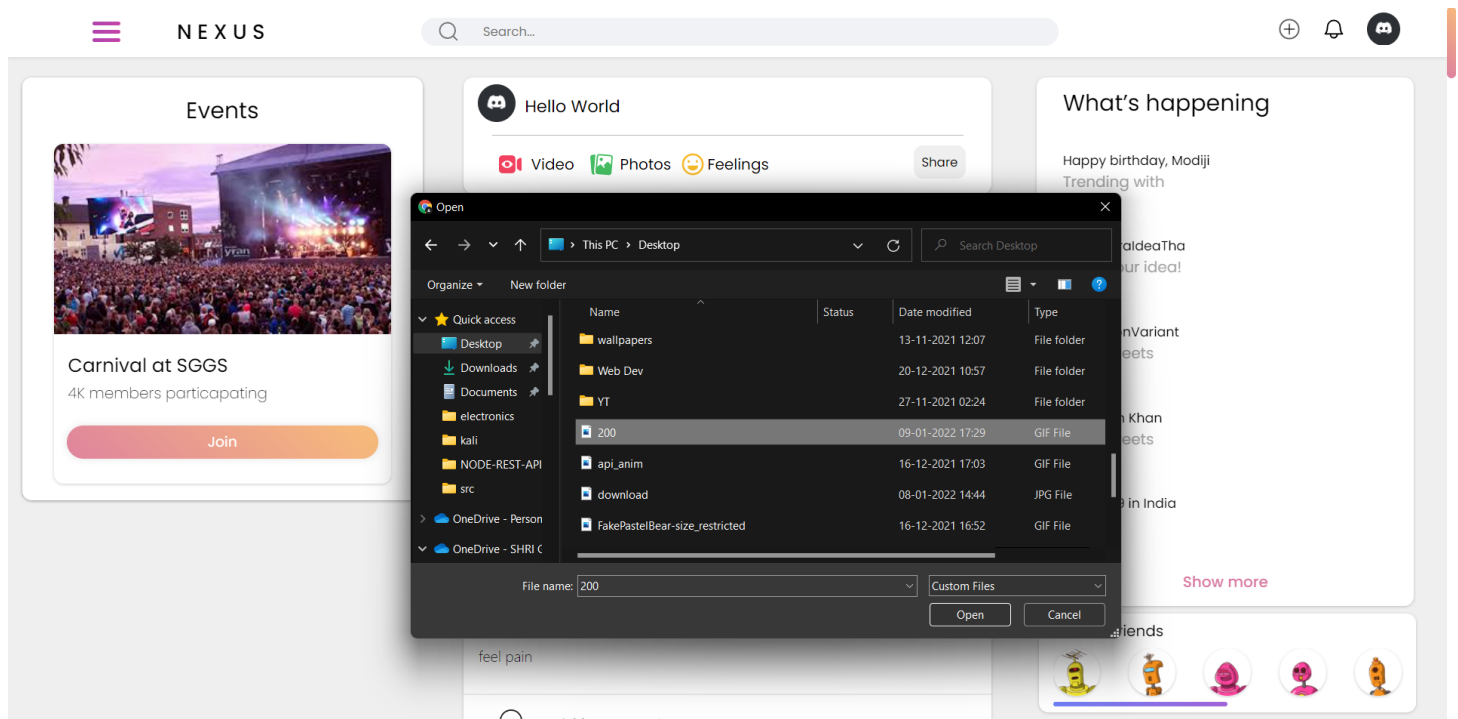
Online Friends

11) Let's try to post our posts now.



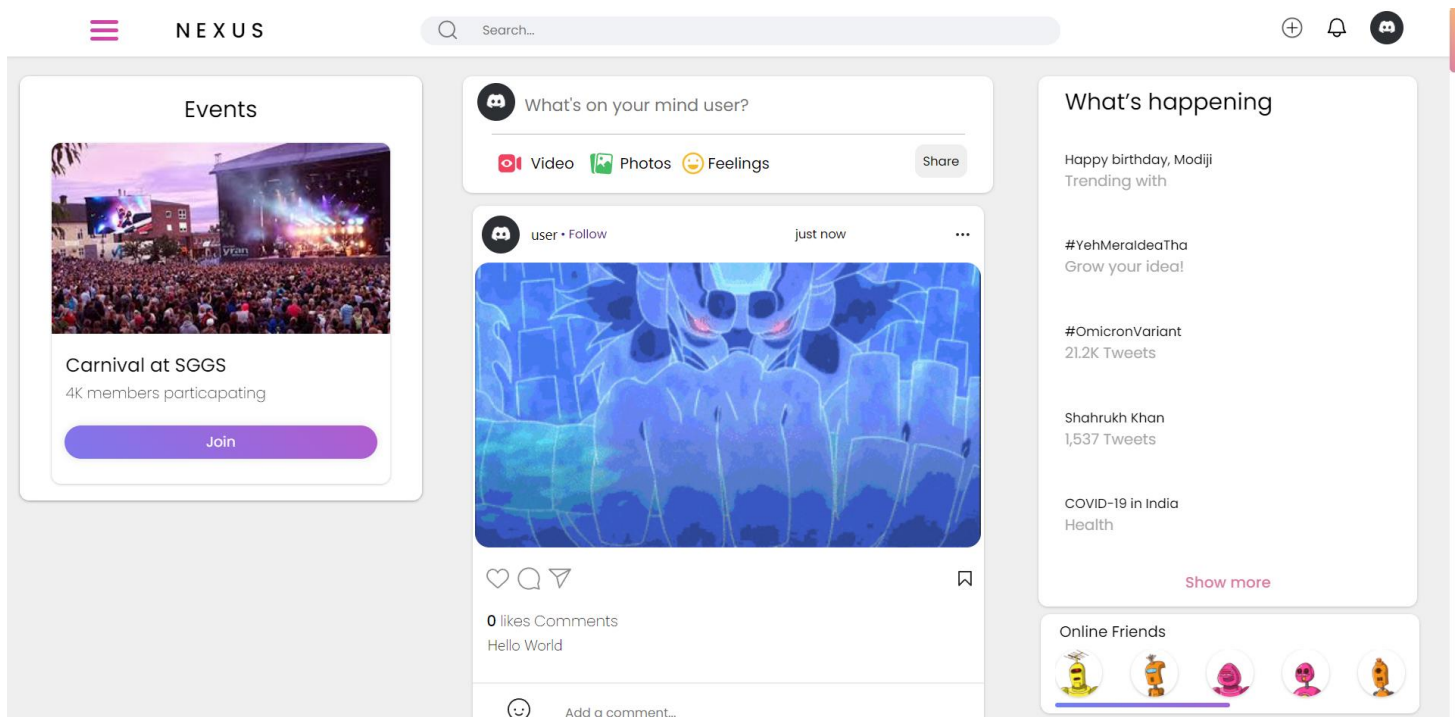
12) Try to type something (Hello World)

13) Click on photo to upload photo/GIF and then select file.

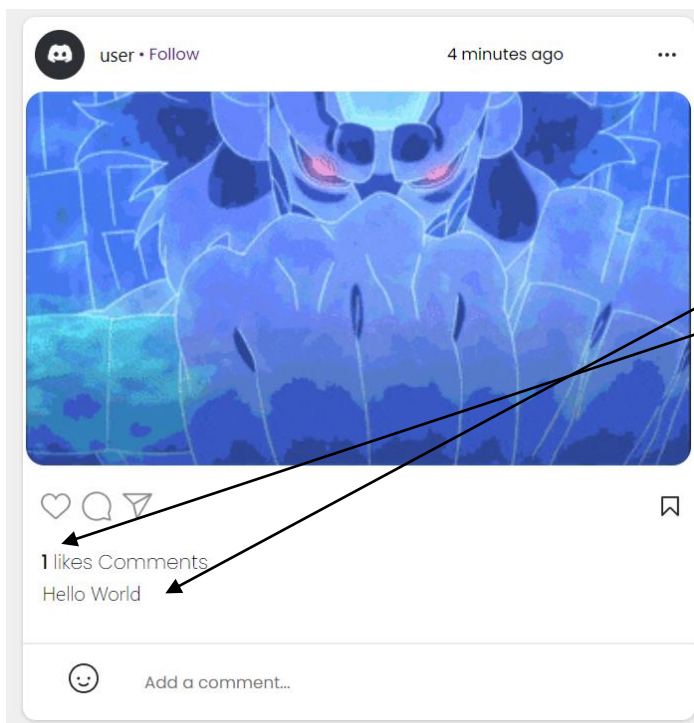


14) Click on share.

15) We posted our first post successfully!



16) We / Our friend can also like our post now. (By double tapping image or clicking like icon)



```
_id: ObjectId("61db29f61d894023afc71669")
userId: "61db1bf81d894023afc7163e"
desc: "Hello World"
img: "1641753078077200.gif"
likes: Array
  0: "61db1bf81d894023afc7163e"
  createdAt: 2022-01-09T18:31:18.670+00:00
  updatedAt: 2022-01-09T18:35:33.125+00:00
  __v: 0
```

17) Data of post will also get updated in Data base.

18) Now how to update post after posting?

19) We can update post (Postman used)

Post Id of post

PUT ▼ http://localhost:8800/api/posts/61db29f61d894023afc71669 Send ▼

Params Auth Headers (8) Body ● Pre-req. Tests Settings Cookies

raw ▼ JSON ▼ Beautify

```

1 {
2   ... "userId": "61db1bf81d894023afc7163e",
3   ... "desc": "Its perfect Sussano"
4 }

```

Id of user
And Updated description

Body Cookies Headers (16) Test Results 200 OK 67 ms 819 B Save Response ▼

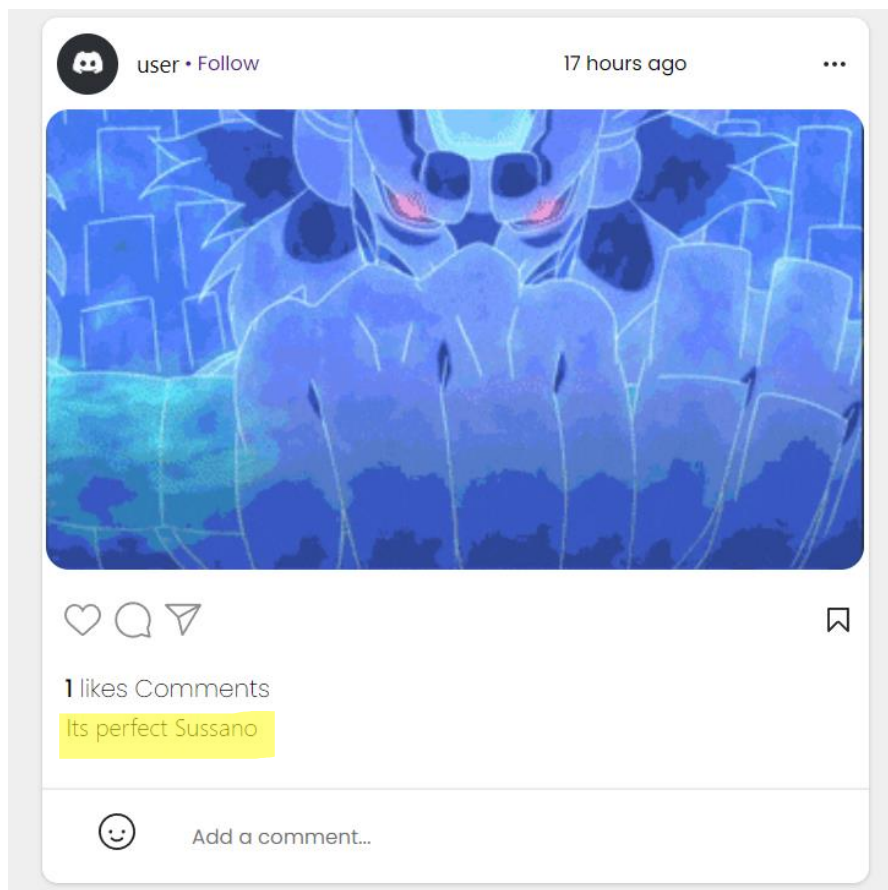
Pretty Raw Preview Visualize JSON ▼ 🔄

```

1 "the post has been updated"

```

20) Now Changes will be reflected on our main page.



20) If I don't like my post anymore, we can delete it. (*Postman used*)

social / delete post

Save

DELETE ▼ http://localhost:8800/api/posts/61db29f61d894023afc71669 Send ▼

Params Auth Headers (8) Body ● Pre-req. Tests Settings Cookies

raw ▼ JSON ▼ Beautify

```

1 {
2   ... "userId": "61db1bf81d894023afc7163e",
3   ..
4 }

```

Body Cookies Headers (16) Test Results 200 OK 68 ms 819 B Save Response ▼

Pretty Raw Preview Visualize JSON ▼

```

1 "the post has been deleted"

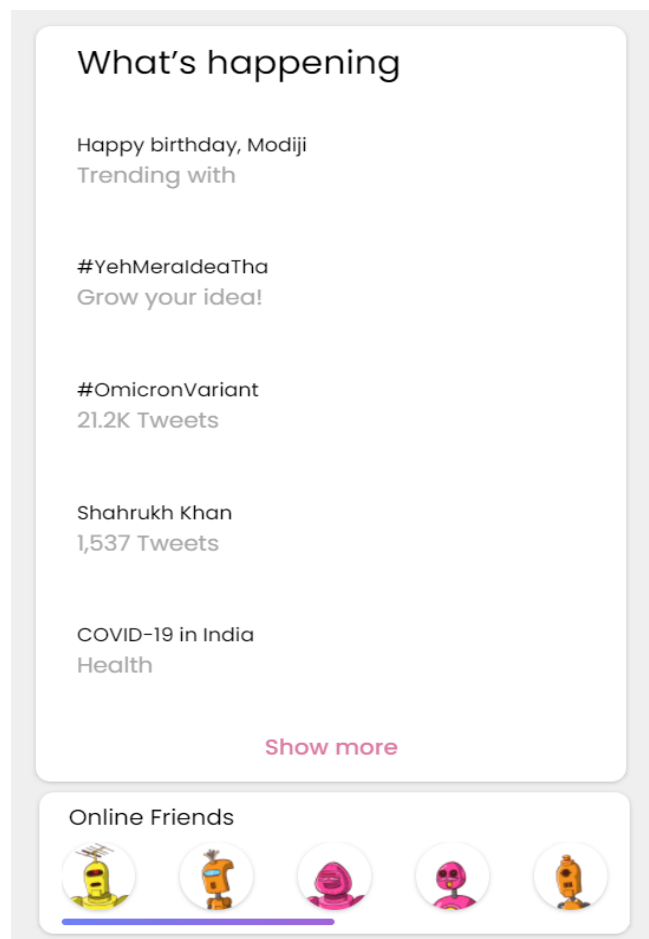
```

21) Post will be removed successfully.

21) Let's visit what's happening section.

22) This section is under development
But still, you can see, it is going
to raise most hot topic.

23) And bottom section will show
Online people which we follow.
And it is also under development.



Events

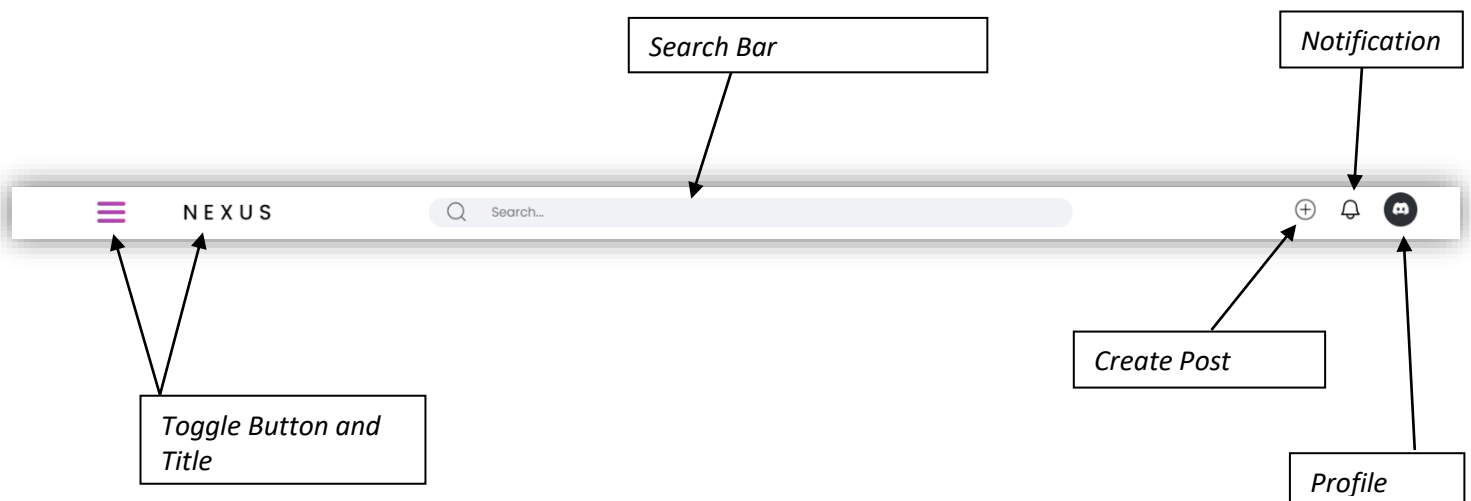


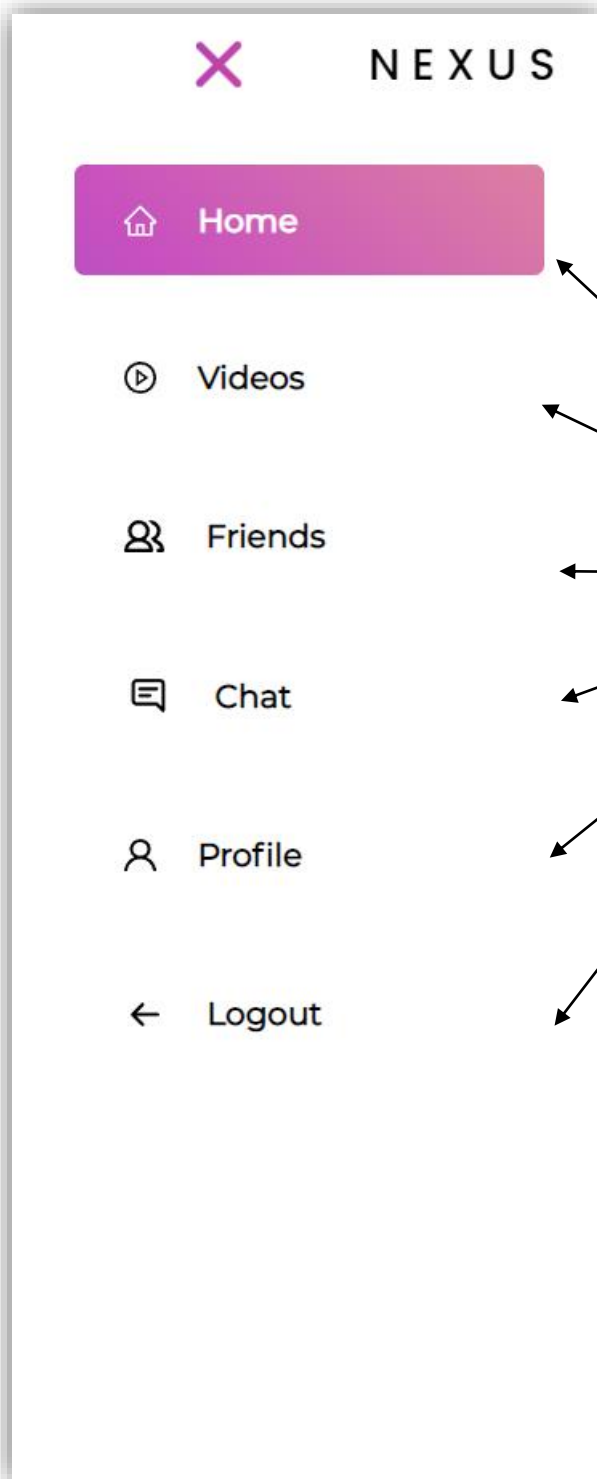
Carnival at SGGS

4K members participating

Join

24) Events section can highlight ongoing/ upcoming events and it is also under development.

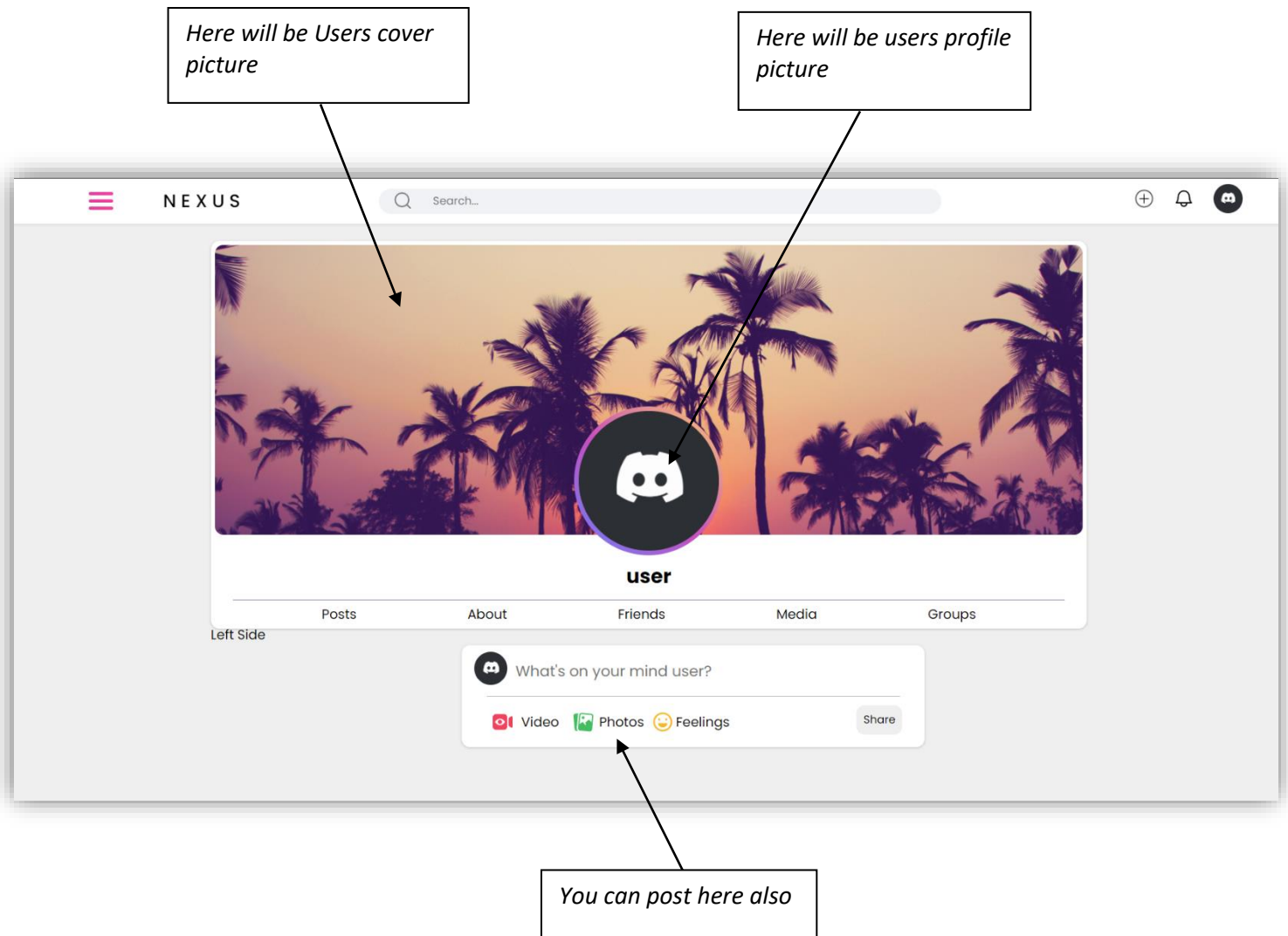




25) This menu appears when clicked on toggle button

This menu has links of multiple pages. First of all, home itself, profile, chat, etc. User has here option for logout.

26) Let's Jump now to profile page, it is under construction but still you will like it.

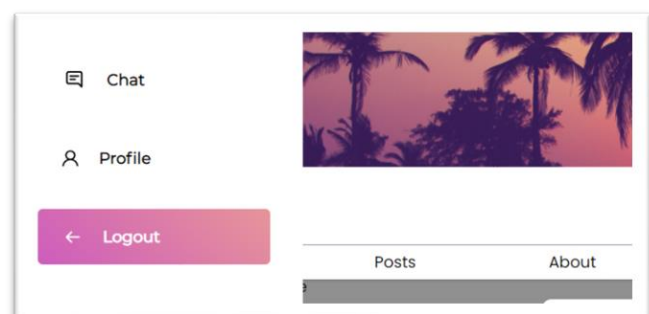
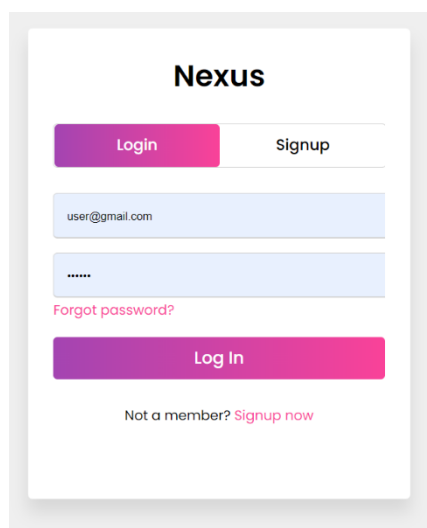


27) There is chat page but it's under construction.

28) Feature of search user and follow user is going to come next, we have successfully achieved it with postman but still it's under development and testing with help of frontend.

29) Lastly let's try logout.

30) User will be logged out and redirected to login page.



3. Application and Future Scope

Application:

In our project, we aimed to develop an online social platform to promote exchange of knowledge. Our objective was to create a community where students can come together and help each other to sharpen their skills.

*With the help of **Nexus**, students can share photos/videos of their achievements, projects to inspire others, they can connect & chat with peers directly, they will stay up-to-date with things happening in the community via the "what's happening!" feed. The community will consist students from Freshers to Alumni of SGGS, where everyone can connect & collaborate with each other.*

Future Scope:

Considering the current version of Nexus, there are a lot of features under-development or testing for example comments, events, what's happening, chatting, searching etc. In future, the website can be scaled up to accommodate more users. The website is also not mobile-friendly as of now, which is also something we are looking forward to fix.

In short, there is a lot of scope in further development of the Website, and we will be looking forward to implement as much features as we can.

4.Conclusion

We began the project with little knowledge of web development at all. Over the course of 2 months, we worked on our web development skills together, helping each other whenever needed. And now we are pretty confident about our skills.

Apart from all the Technical Knowledge we all adapted Team Work and Patience. Despite of all the scheduling problems, our Irregular work times, we still managed to complete our project sincerely and in given time.

At last, we like to make a generous thanks to our Director Sir for providing a wonderful ambiance such as RNXG Club for us. Thank you, seniors, for this project idea, also for your help throughout the project. It made a great deal working on this project! Lastly, we team members thanks each other for our contribution and sincerity.