IT252 PROJECT

BLOGGING WEBSITE

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Introduction

- A blog is like an online journal or diary where people can write and share their thoughts, experiences, ideas, or expertise on various topics.

- MERN Stack Blogging Website using React.js, Tailwind CSS and advanced authentication with robustness in user interaction and with features like commenting and searching.

Scope

- Scope includes building a responsive, feature rich website catering to both content creaters and consumers.

- Significance lies in fostering an interactive online community through user-friendly interface and advanced functionalities.

- Content Diversity, Audience Engagement, Personal Expression, Community Building will be given more importance
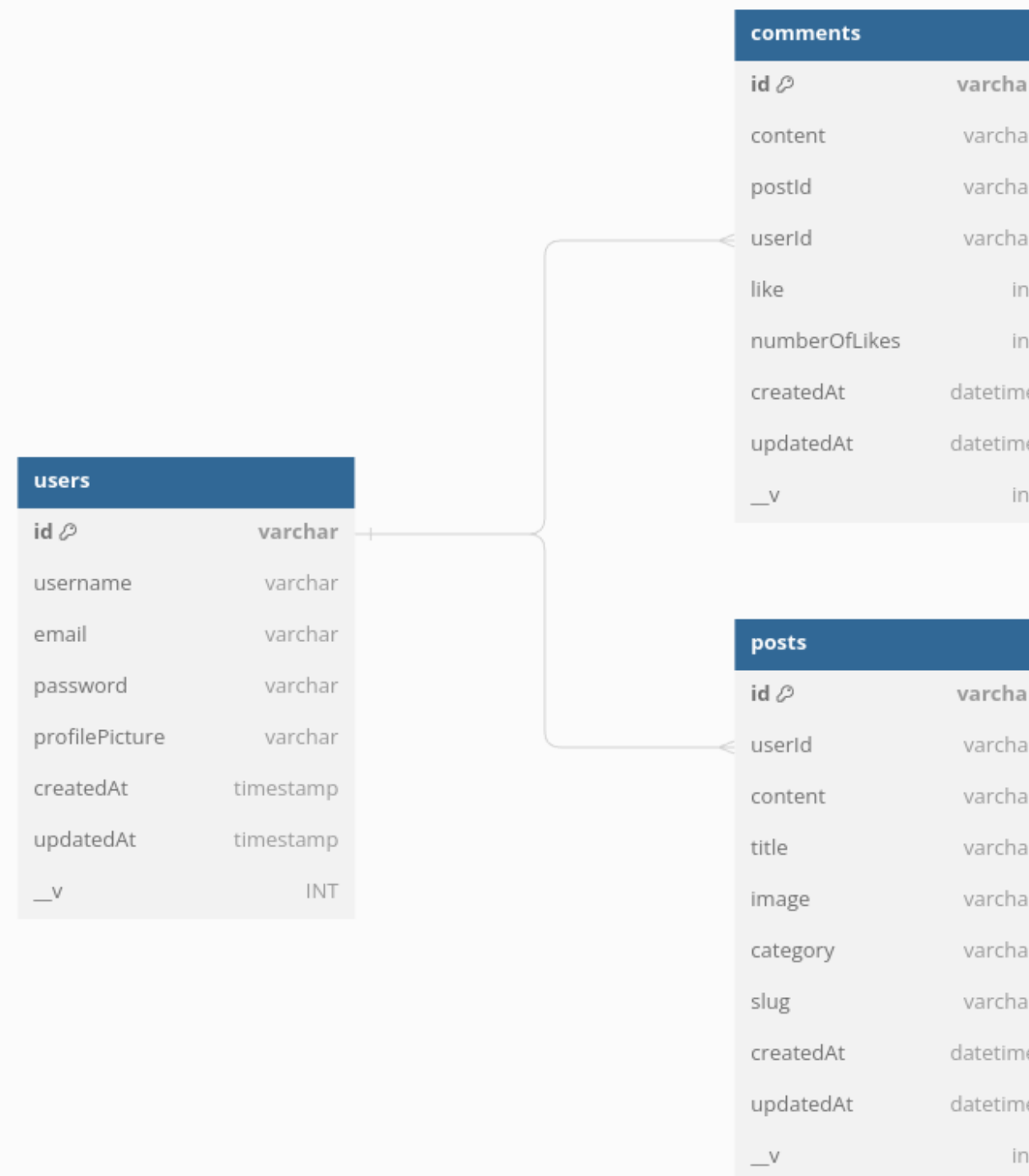
Objective

- Develop a MERN stack blogging website with modern features and robust functionality.

- Create an engaging platform for content creators and consumers alike, promoting interaction and user engagement.

- Implement all modern features to enrich user experience

Working of our Website

- The system we have developed allows users to create their own blog, where users can publish their own opinions.

- In this system there are admins who takes care of the Blog.

- Only verified admins can create posts.

- The posts may verified by the admins.There has category list where posts can be saved by relevant category.People can like, comment and share the posts.

ER Diagram

comments

id 🔗	varchar
content	varchar
postId	varchar
userId	varchar
like	int
numberOfLikes	int
createdAt	datetime
updatedAt	datetime
__v	int

users

id 🔗	varchar
username	varchar
email	varchar
password	varchar
profilePicture	varchar
createdAt	timestamp
updatedAt	timestamp
__v	INT

posts

id 🔗	varchar
userId	varchar
content	varchar
title	varchar
image	varchar
category	varchar
slug	varchar
createdAt	datetime
updatedAt	datetime
__v	int

Highlights of Our Website

Fully Responsive.

Compatible with PC, Tablet, Mobile Devices.

Light and Dark Mode Included.

Google OAuth Integration

Different Views for Registered Users, Unregistered Users and Blog Admins.

Search & Sort Functionality.

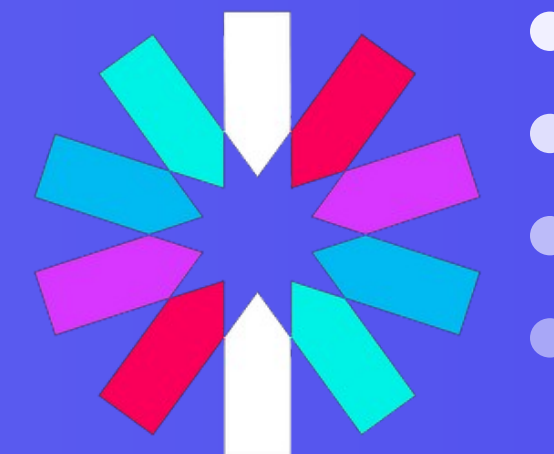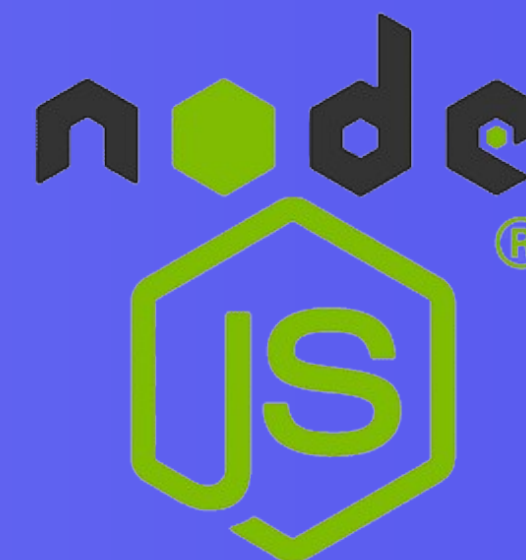All Users have the ability to make, edit and delete posts.
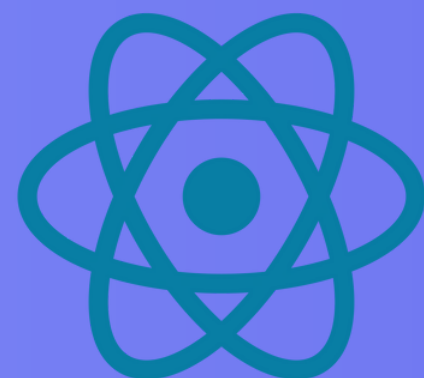
And many more...

Tech Stack
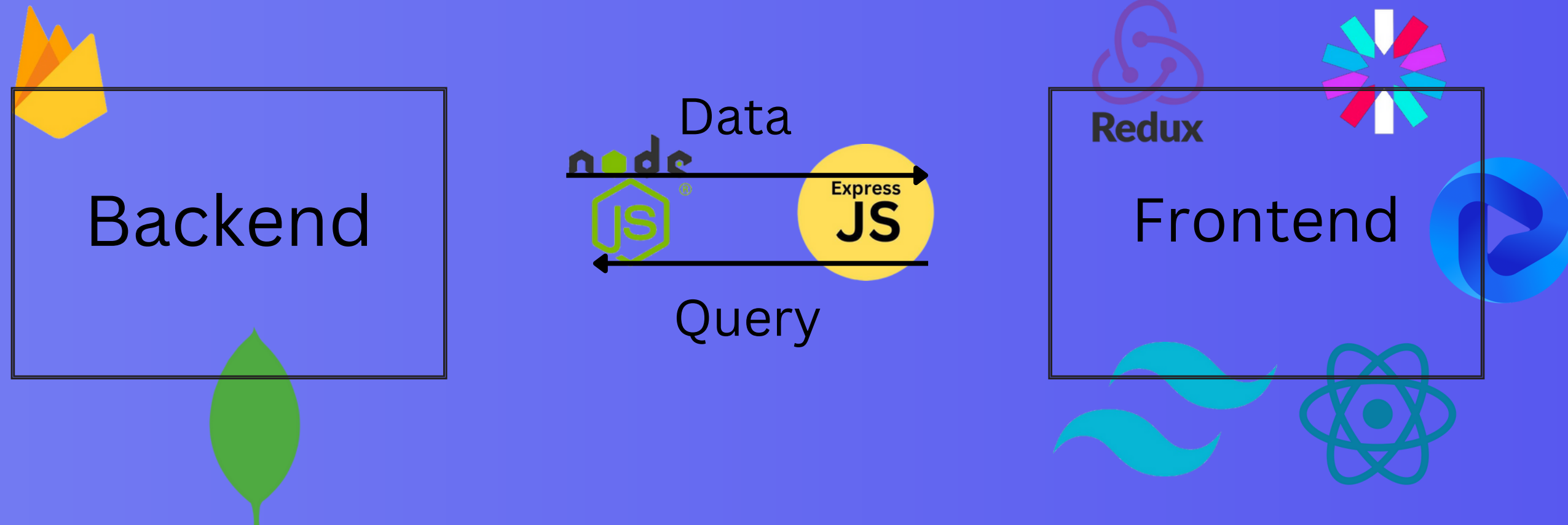
Frontend : ReactJS, Tailwind CSS, Flowbite

ODM : Mongoose

Backend : ExpressJS, MongoDB, Firebase

Misc : Redux, JSON Web Tokens

System Design

Backend

Data →

← Query

Frontend

Results

Inkwell Insights

Search...

Home   About   Projects

Blogging Beyond Boundaries

Unleash Your Voice, Ignite Your Passion

View all posts

Recent Posts

NIT-T innovation creates tankless water distribution system

science

Windows 12 'first look' will make you want the future OS right now

science

Jay Shah denies IPL shift to UAE

sports

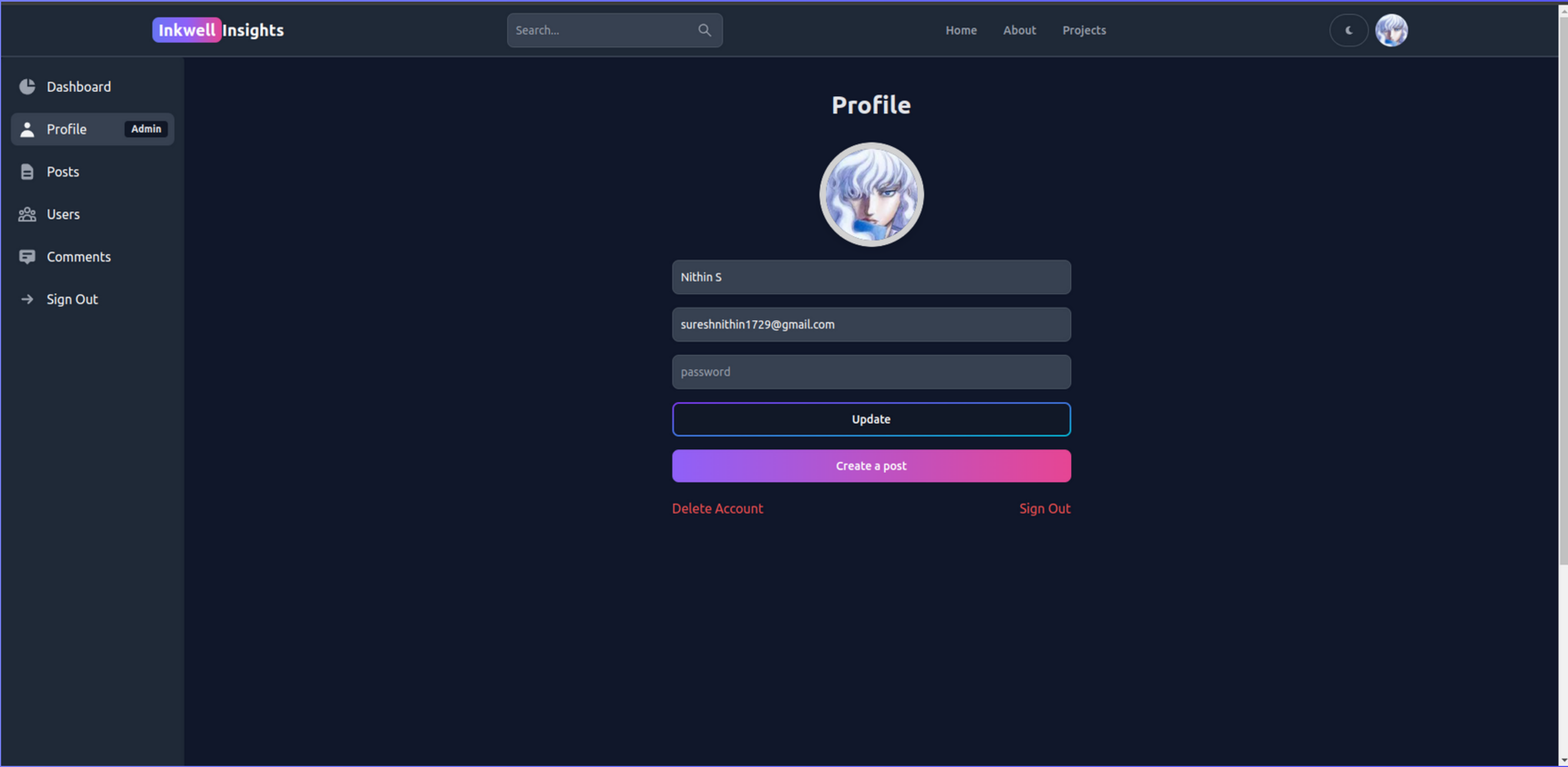**Lok Sabha Election 2024 Highlights: Polls begin on April 19, results on June 4; MCC kic...**

politics

Windows 12 'first look' will make you want the future OS right now

science

17/03/2024   3 mins read

Results

Work Distribution

01

- Set up project with React and Tailwind.
- Create basic UI components like header footer.
- Implement React Router Dom for navigation.

Nithin & Jay

02

- Implement JWT and Google Auth
- Set up Redux Toolkit
- Sign In , Up and Out
- Admin Dashboard

Nithin & Ayush

03

- Set up backend with nodejs and Expressjs
- Connect MongoDB
- Implement CRUD
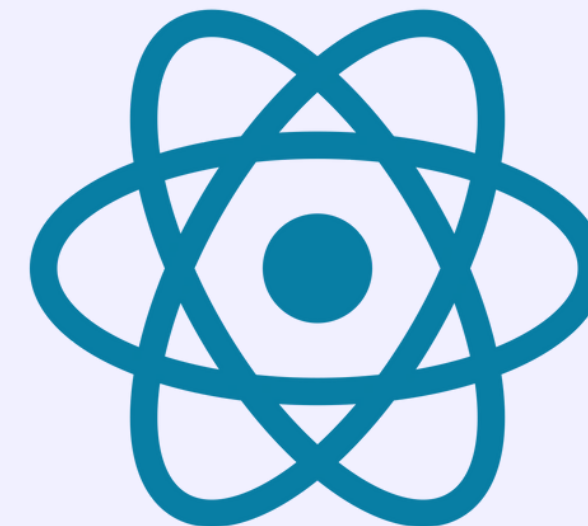- Secure backend routes

Jay & Nithin

04

- Implement Search & Sort Functionality
- Comment System
- Dark Mode
- Optimize & Debug

Combined

Future Work

- Enhanced User Profiles
- Hosting the Website
- Advanced Analytics
- Content Recommendation
- Collaborative Editing
- Monetization Options
- Localization and Internationalization
- Community Moderation Tools
- Integration with External Platforms
- Accessibility Improvements
- Continuous Performance Optimization

References

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S. Otsuka, K. Kato and V. Klyuev, "Academic laboratory website development," 2015 17th International Conference on Advanced Communication Technology (ICACT), PyeongChang, Korea (South), 2015, pp. 791-794, doi: 10.1109/ICACT.2015.7224903. keywords: {Servers;Radiation detectors;Switches;Computers;Smart phones;Internet;Website Development;Responsive Web Design},