

Project Report

on

SGGS News & Blog App

Submitted by

T.Y Computer Science and Engineering

Team Members :-

Deshmukh Swapnil Shankarao (2020BCS029 - A14)

MD Yousuf Rehan MS Jameel (2020BCS013 - A07)

Abhishek Prakash Pawar (2020BCS007 - A04)

under the guidance of

Prof. Jayshree Waghmare

Prof. Swapnaja Moralwar



SHRI GURU GOBIND SINGHJI INSTITUTE OF ENGINEERING
AND TECHNOLOGY VISHNUPURI, NANDED (431606) M.S. INDIA

Department of Computer Science and Engineering

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Abstract

SGGS NEWS AND BLOG is a web application, which helps SGGS students to know about their campus news. The main aim of this app is connecting students with their college. If anyone post a news/blog then, it can be seen by anyone. They can rewrite already posted news/blog. If author is willing to remove it, then only author can delete that.

Our generation is just behind the screens for hours as well as majority of academic work is on internet. In such a situation, using a blog culture in college will get student into research. Writing for a purpose make them more sensitive about different topics of knowledge. It helps to interact with people of same interest and share their ideas and views for improving the quality of content provided. It has more potential for development of communication, understanding skills and building networks.

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1) INTRODUCTION

1.1) INTRODUCTION TO THE PROJECT

Web applications are an integral part of our day-to-day work-be it hotels, sports, news, business, medicine or education. In a competitive world that promotes global access to services, there is an increasing need to reach out to the customers and provide them with regular updates and information. Nowadays, blog is an essential component of a web application. All students must write a blog of his daily knowledge. Blog is an important social networking tool included in a web application, to facilitate interaction and collaboration with the users. For a web application, it is an important part of online marketing. Blog in a web application is used for promoting products and services, writing articles, providing product updates, educating user. Blog facilitates communication and interaction with the user to share knowledge and expertise. Blog posts are meant to provide valuable information to people in a free and easy to read manner.

We daily like to read news of our surroundings. So that we can be updated time to time. What happening in college? Sometime this is main question of student.

1.2) Objective of Project

Blogging is often seen as a good way to get in touch with students. This blog is a type of website that is comprised of entries either made by the students or other members. A blog is a great way for a person to learn how to give our knowledge to other people.

The main aim of developing this platform is to create awareness in students that someone is doing something , so that they can know what to do and how to compete in this competitive world.

Student must know about there surroundings also, so news section provide good information to students also.

1.3) Benefits of project

- Blogging Exercises Student Creativity
- Regular Writing Sharpens the Brain's Performance
- Promote Expression of Self
- Blogging Boosts Confidence
- Improve Communication Skills
- Get up-to-date with college

2) System Module

There is only one module involved in this project. That is user module. Because this application has total control of user can write anything he wants.

2.1) User :-

In this module :

- User can register
- User can login
- User can add information
- User can add a image of that information
- User can select category that that news or blog has

2.2) Input requirements of user :-

- User name
- User gmail

2.3) Output of System :-

- Blog information
- Various kind of news like Pragyaa, Utsav, Codechef Chapter, SIC, Other news.

3) Technologies Used

Platform :

- 1. Front end :** html, scss, reactjs
- 2. Back end :** bcryptjs, cookie-parser, express, jsonwebtoken, multer, mysql, nodemon, react-scripts

3.1) HTML :-

HTML stands for HyperText Markup Language. It is a standard markup language for web page creation. It allows the creation and structure of sections, paragraphs, and links using HTML elements (the building blocks of a web page) such as tags and attributes.

3.2) SCSS:-

Sass is a stylesheet language that's compiled to CSS. It allows you to use variables, nested rules, mixins, functions, and more, all with a fully CSS-compatible syntax. Sass helps keep large stylesheets well-organized and makes it easy to share design within and across projects.

3.3) Reactjs :-

ReactJS is JavaScript library used for building reusable UI components. According to React official documentation, following is the definition –

React is a library for building composable user interfaces. It encourages the creation of reusable UI components, which present data that changes over time. Lots of people use React as the V in MVC. React abstracts away the DOM from you, offering a simpler programming model and better performance. React can also render on the server using Node, and it can power native apps using React Native. React implements one-way reactive data flow, which reduces the boilerplate and is easier to reason about than traditional data binding.

3.4) Express :-

Express is a minimal and flexible Node.js web application framework that provides a robust set of features to develop web and mobile applications. It facilitates the rapid development of Node based Web applications. Following are some of the core features of Express framework –

- Allows to set up middlewares to respond to HTTP Requests.
- Defines a routing table which is used to perform different actions based on HTTP Method and URL.

3.5) Cookie-parser :-

Parse Cookie header and populate req.cookies with an object keyed by the cookie names. Optionally you may enable signed cookie support by passing a secret string, which assigns req.secret so it may be used by other middleware.

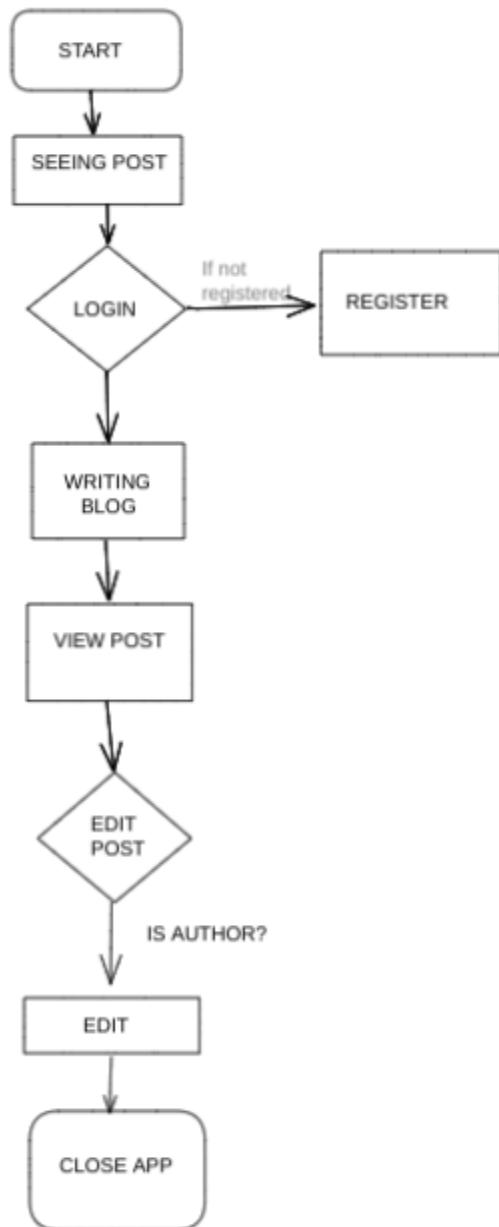
3.6) MySql :-

MySQL is a relational database management system (RDBMS) developed by Oracle that is based on structured query language (SQL).

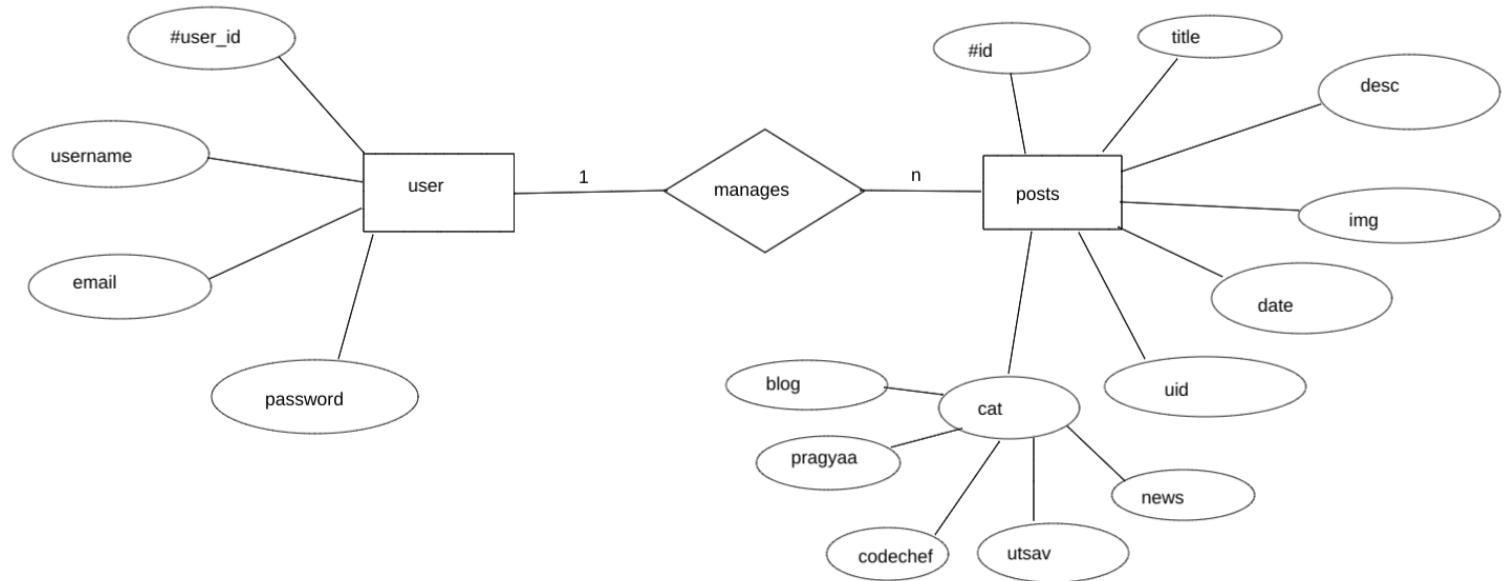
A database is a structured collection of data. It may be anything from a simple shopping list to a picture gallery or a place to hold the vast amounts of information in a corporate network. In particular, a relational database is a digital store collecting data and organizing it according to the relational model. In this model, tables consist of rows and columns, and relationships between data elements all follow a strict logical structure. An RDBMS is simply the set of software tools used to actually implement, manage, and query such a database.

4) Diagrams

4.1) Flowchart of project :-



4.2) ER Diagram:



5) Database Design

Table 1) users table

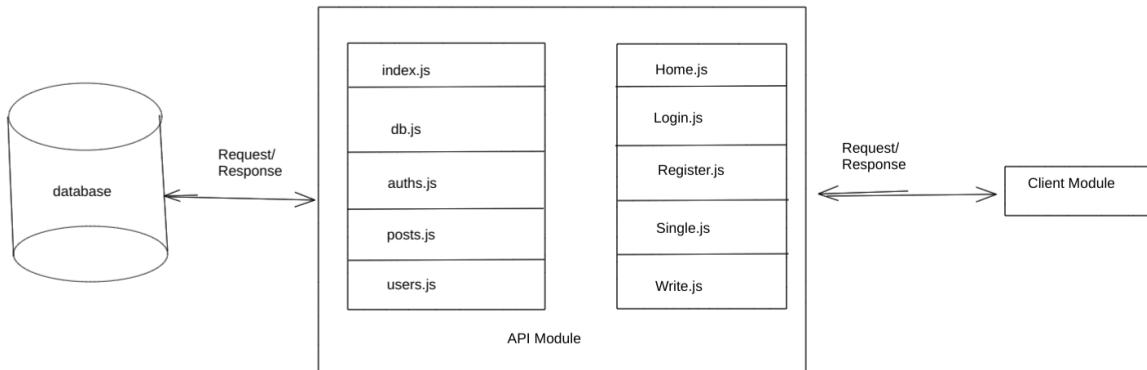
```
mysql> select * from users;
+----+-----+-----+-----+
| id | username | email | password |
+----+-----+-----+-----+
| 2 | 1@gmail.com | 1@gmail.com | $2a$10$874tOMoCRZg00ipqOP.RfePitGct.VHEySn4nERSBb7Lqc3ckndGy |
| 3 | swapnil | swapnil@gmail.com | $2a$10$1HI16KNchyF1DGYIg072Ju0PdD3vlsDMMEwoIzj/W4LMB1SwhI6De |
| 4 | shbham | shubham@gmail.com | $2a$10$mkEdmYXcux7VGABHo7mvle7rEEFI17BKyzgWwDjWoANd9DxRBlxzi |
| 5 | pinku | pinku@gmail.com | $2a$10$vsg781r7moQzLoYHg/ffn0LEglxL4Ql0cg/ZOnoaUPAHRzLk93ex6 |
| 6 | Nanya | nanya@gmail.com | $2a$10$c0UVfZ2creuCh1saVsnHEuIakZbg69VUALB8yptvnhBCMvu3UNnC6 |
| 7 | durgesh | durgesh@gmail.com | $2a$10$OVmn6qdSSpQFAEBrl0KB80JrWNmirhAUUsDa9LvWR0cBpd6UR0t4eW |
+----+-----+-----+-----+
6 rows in set (0.00 sec)
```

Table 2) posts table

#	id	title	desc	img	date	uid	cat
1	18	S...	<p>Some one made sggs 3d website. This is ...	1669816948592sggs.png	2022-11-30 19:32:28	2	d...
2	16	P...	<p><span style="background-color: rgb(255, 2...	1669816650155pragyaa.jpeg	2022-11-30 19:27:30	2	art
*		HULL	HULL	HULL	HULL	HULL	HULL

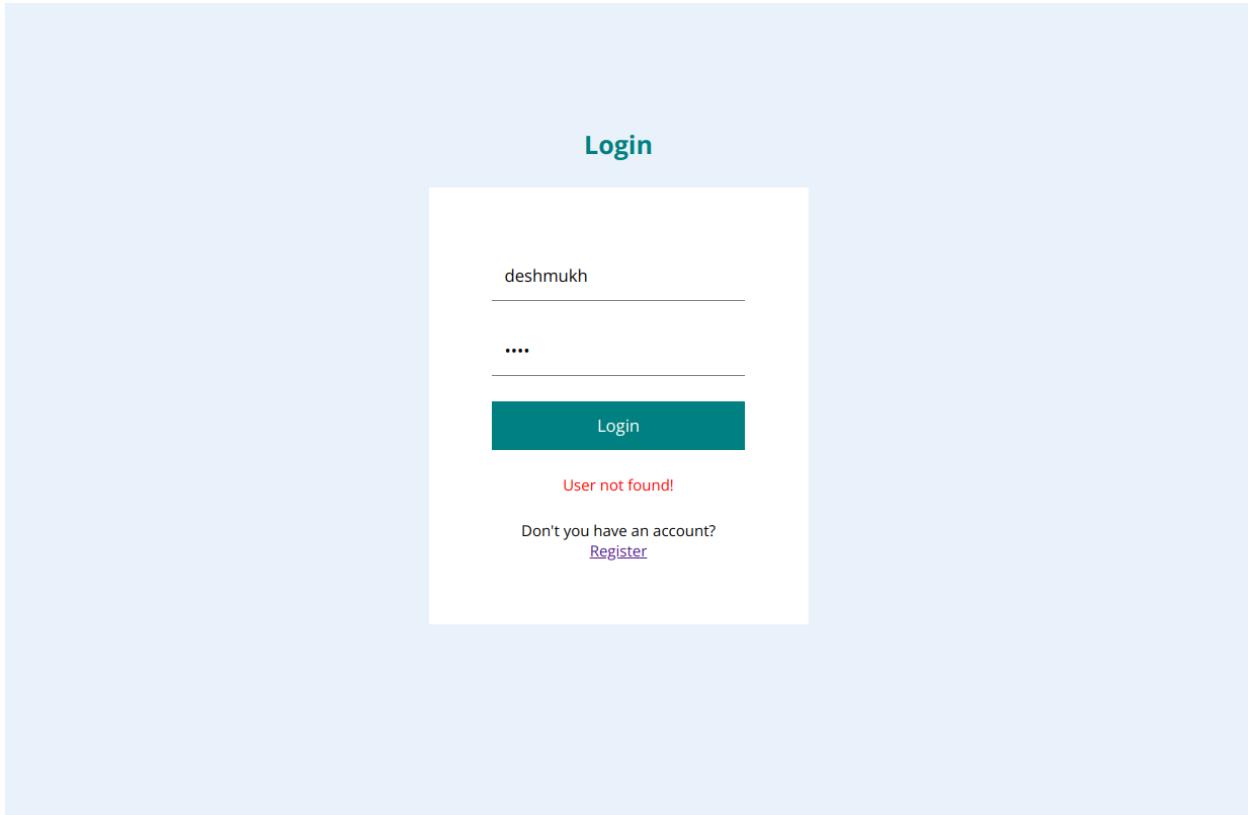
About Database:

In this database there are 2 tables made. This tables can be save on cloud service or locally. By using Mysql commands we can change the database. By using API we connect this database to frontend.

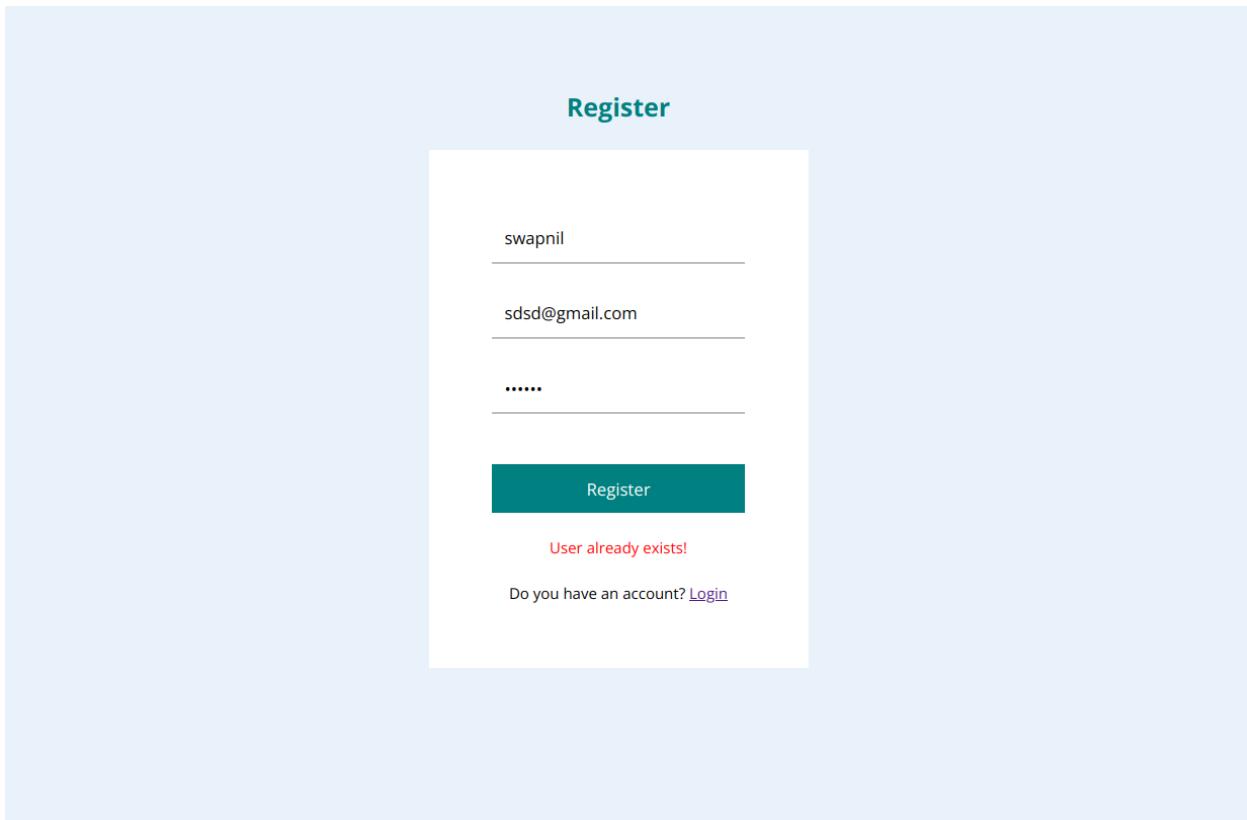


6) Frontend Design

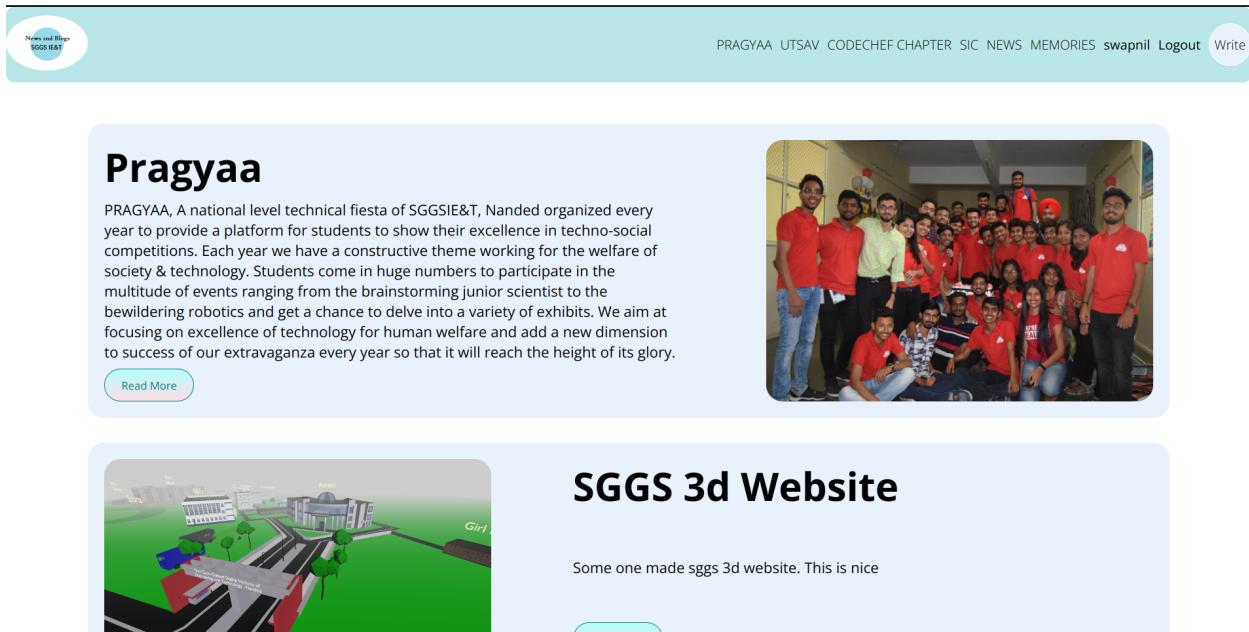
6.1) Login page:



6.2) Registration page:

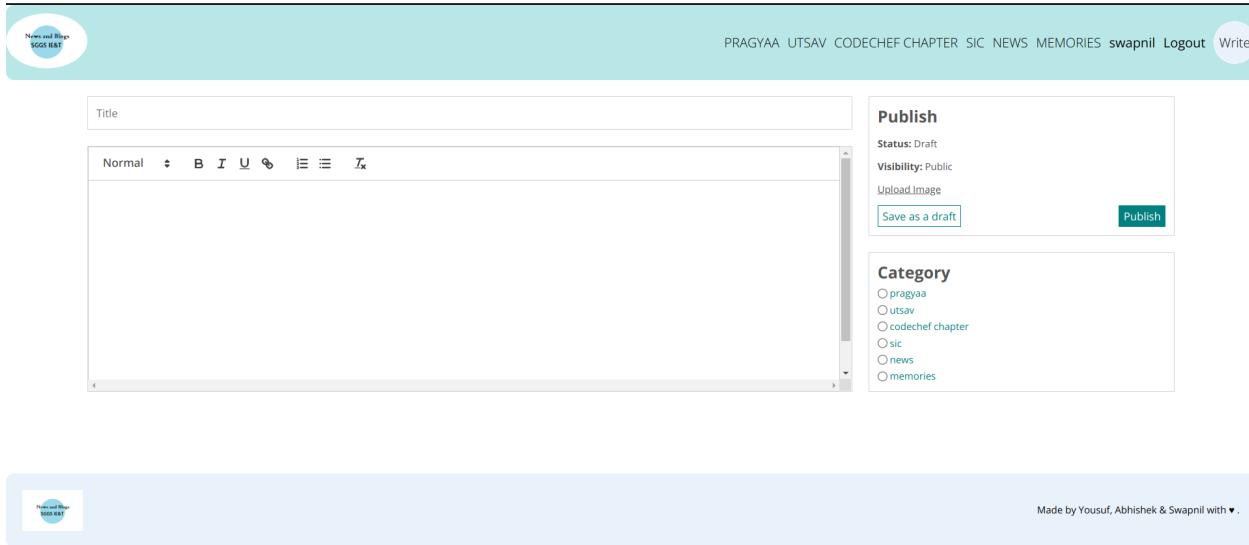


6.3) Home page:



The screenshot shows the homepage of the SGGSIE&T website. At the top, there is a navigation bar with links for 'News and Blogs' and 'SGGS I&T'. On the right side of the header, there are links for 'PRAGYAA', 'UTSAV', 'CODECHEF CHAPTER', 'SIC', 'NEWS', 'MEMORIES', 'swapnil', 'Logout', and 'Write'. Below the header, there is a section titled 'Pragyaa' with a brief description of the event. A 'Read More' button is located at the bottom left of this section. To the right of the description is a group photo of many people in red shirts. Below this section is another one titled 'SGGS 3d Website' featuring a 3D rendering of the campus and a caption that reads 'Some one made sggs 3d website. This is nice'.

6.4) Write page:



The screenshot shows the 'Write' page of the SGGSIE&T website. At the top, there is a navigation bar with links for 'News and Blogs' and 'SGGS I&T'. On the right side of the header, there are links for 'PRAGYAA', 'UTSAV', 'CODECHEF CHAPTER', 'SIC', 'NEWS', 'MEMORIES', 'swapnil', 'Logout', and 'Write'. The main content area has a 'Title' input field, a rich text editor toolbar, and a large text editor area. To the right of the text editor are two columns: 'Publish' and 'Category'. The 'Publish' column contains fields for 'Status' (set to 'Draft'), 'Visibility' (set to 'Public'), an 'Upload Image' button, a 'Save as a draft' button, and a 'Publish' button. The 'Category' column contains a list of categories with radio buttons: 'pragyaa', 'utsav', 'codechef chapter', 'sic', 'news', and 'memories'. At the bottom of the page, there is a footer with a small logo and the text 'Made by Yousuf, Abhishek & Swapnil with ❤'.

6.4) Single page for single post



1 Posted 6 hours ago

Pragyaa

PRAGYAA, A national level technical fiesta of SGGSIE&T, Nanded organized every year to provide a platform for students to show their excellence in techno-social competitions. Each year we have a constructive theme working for the welfare of society & technology. Students come in huge numbers to participate in the multitude of events ranging from the brainstorming junior scientist to the bewildering robotics and get a chance to delve into a variety of exhibits. We aim at focusing on excellence of technology for human welfare and add a new dimension to success of our extravaganza every

Other posts you may like



Pragyaa

[Read More](#)



New Events

[Read More](#)

Here if user is not author then he cant get an option to edit and delete the post.



1 Posted 6 hours ago

Pragyaa

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localhost:3001/write?edit=2

Other posts you may like



Pragyaa

[Read More](#)



New Events

[Read More](#)

7) Code:

In following link you will get all the code of website :

<https://github.com/yousufrehan/blog-website.git>

8) Conclusion:

This paper describes by using some web libraries and database we can make a beautiful website of news and blog app. We would like to say that the “Blog Web App” is a stable and easy to use platform. It has a secure authentication mechanism implemented using the latest tools provided by respective frameworks. It provides an ad-free experience to its viewers, resulting in more user screen time. Since it is a web application, it can be accessed from anywhere users with stable internet connection.

9) References :

- <https://www.npmjs.com/package/bcryptjs>
- <https://www.npmjs.com/package/cookie-parser>
- <https://jwt.io/introduction>