

# SOFTWARE ENGINEERING PROJECT FINAL REPORT

## -Team Moderators

This section explores the features of the Project and a general tour of the Features that have been planned and implemented in the project at the end of 3 months

### OUTLINE

1. What is BlogPenn?
2. Unique Features
3. Demonstration of project
4. What we used from this course
5. Technology Used
6. Future Scope

### **Now, What is BlogPenn??**

**BlogPenn is a blogging platform. As simple as that.**

Now, coming to the more important question at hand.

### **Now, why BlogPenn??**

This brings us the USPs(Unique Selling Points) of our product

#### **1> Speech Recognition and Speech Synthesis**

BlogPenn is the first blogging site that has properly taken into account the speech to text and text to speech features which makes it an attractive service to use for the visually impaired, or

people suffering from hearing loss or even people who multitask or prefer an interactive interface to work with.

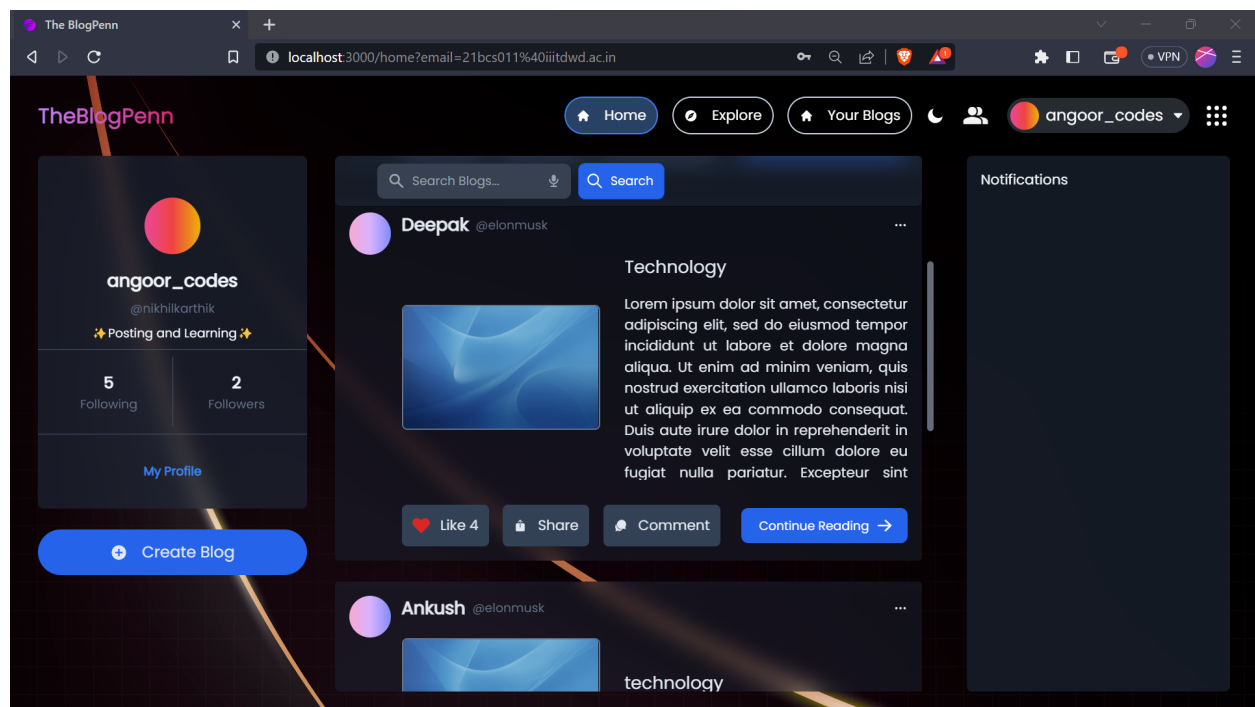
## 2> CMS integrated with social media features

Also, BlogPenn is a CMS(Content Management System) which can handle long-form content from all of it's users and also allows them to connect with each other and view their blogs. This service is usually not offered by other CMS services and gives it a social media aspect as well. This allows you to not only share your information online, but also helps you to follow particular people and thus receive a selective and relevant feed which actually interests you.

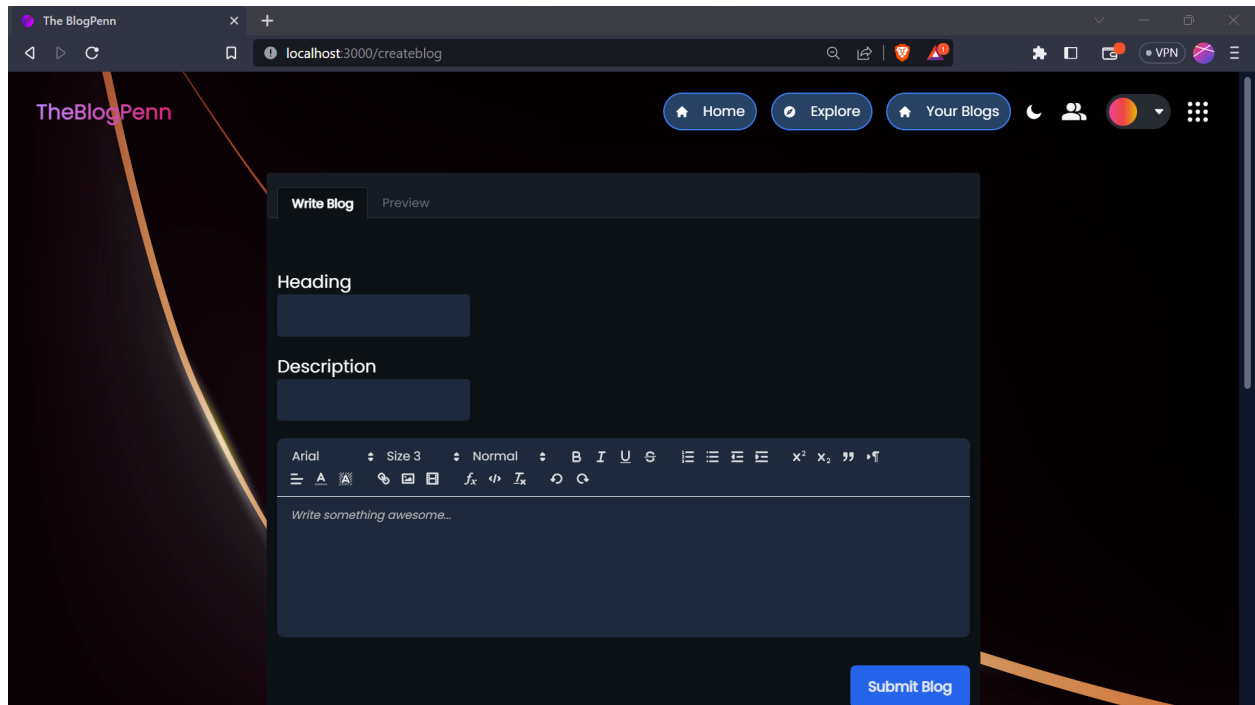
## 3> Visually Appealing Interface

Also, the attractive and interactive interface that we have implemented with React JS has less render time and provides the user with a hindrance free, satisfactory experience.

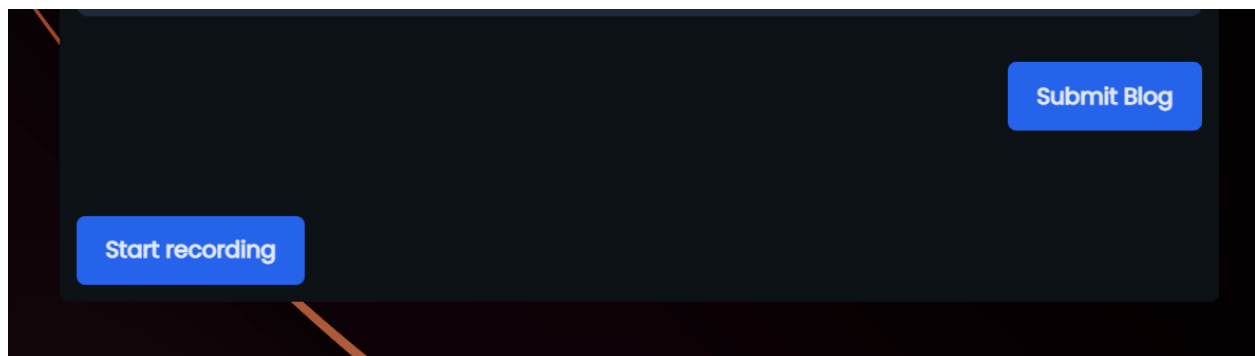
# HOME PAGE



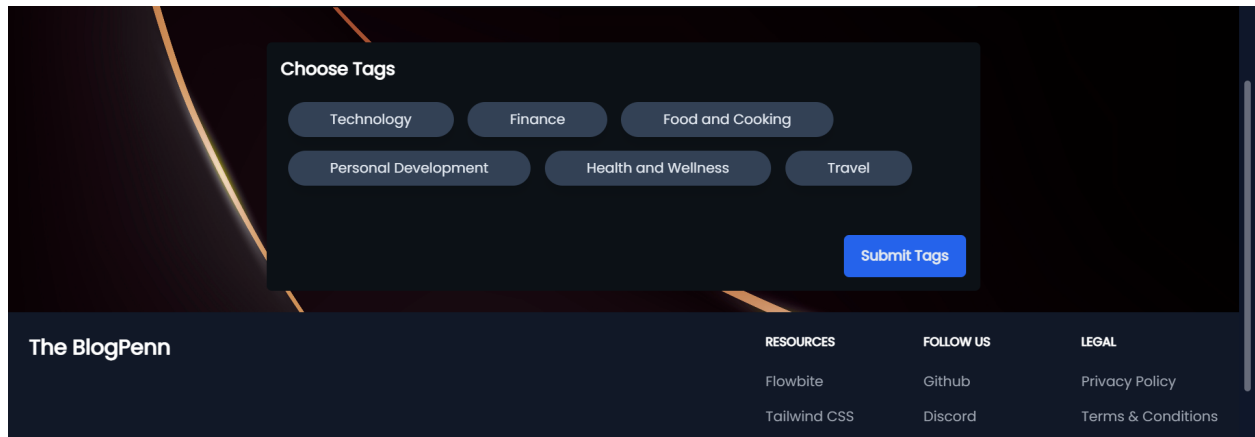
# CREATE BLOG PAGE



This also implements a text editor using a react package called react-quill . This makes it an attractive UI for professional bloggers.The Heading and description of the blog allows you to provide a basic overview of your blog to attract appropriate audience.



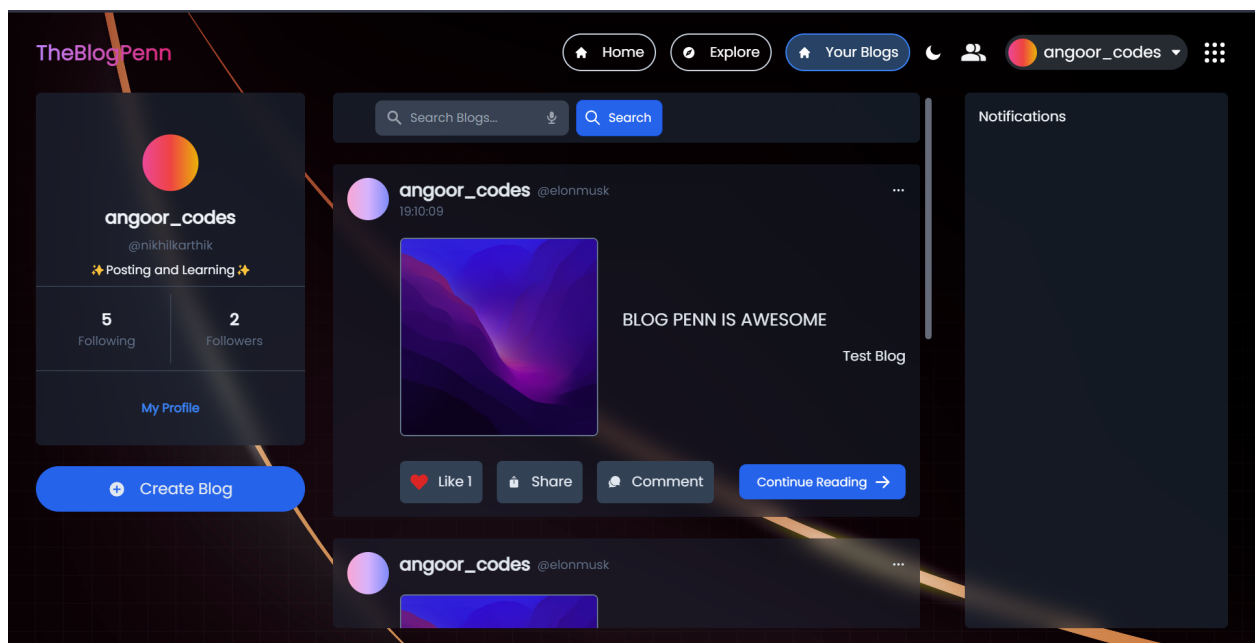
This is the most important portion of the create blog page which allows you to record your voice and converts it to text in real time. This is one of our main USPs.



Last but not the least , the choose Tags section allows you to choose appropriate tags for your blogs that allow users of similar interests to discover your blogs and thus helps you connect to like minded users of the platform.

This feature also allows you to upload photos to go along with your blogs to make it more attractive and effective. For that we have used a third party API called cloudinary which allows you to acquire separate urls for your media.

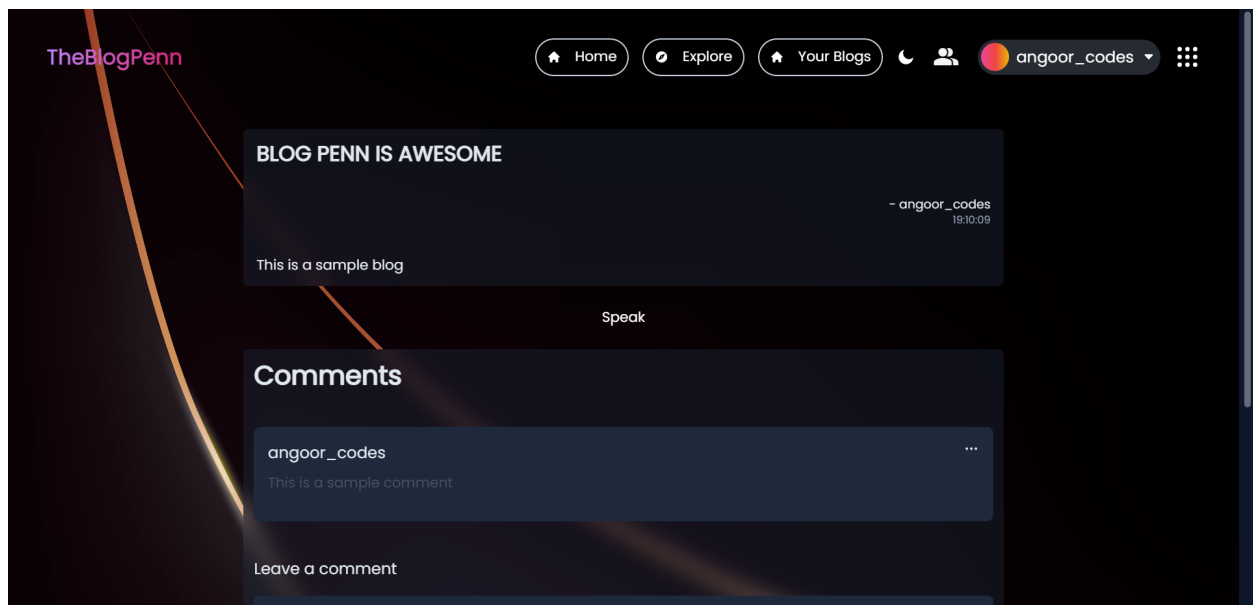
## YOUR BLOGS



This section allows you to view your own blogs and as , the course instructor, Dr Uma Sheshadri very kindly recommended to us , we plan to incorporate statistics of how our blogs are performing on a global scale in this page itself in the later sprints .

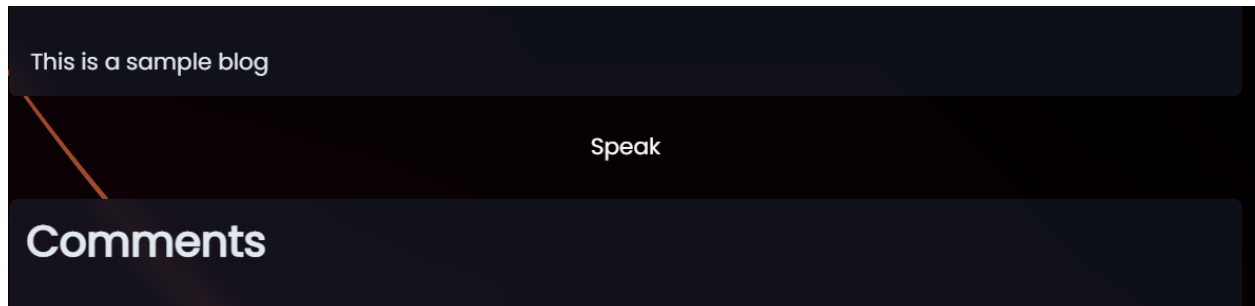
It currently allows you to see the likes and comments on specific blogs . It also allows you share your blogs through other social media by providing a link.

## CONTINUE READING



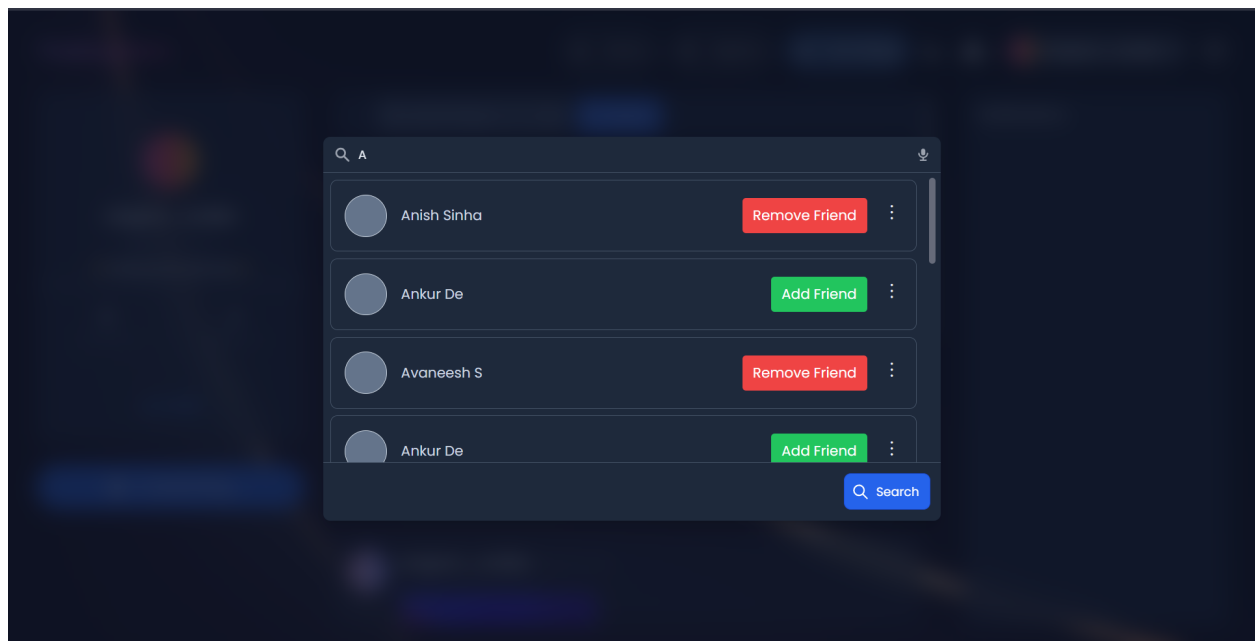
This page allows you to view a blog in it's long form, which is a typical cms platform feature. It also displays the blogger username in the bottom right corner of the blog. It also allows you to comment your opinion about the blog in question and view other comments made by other users on the blog as well.

## SPEAK



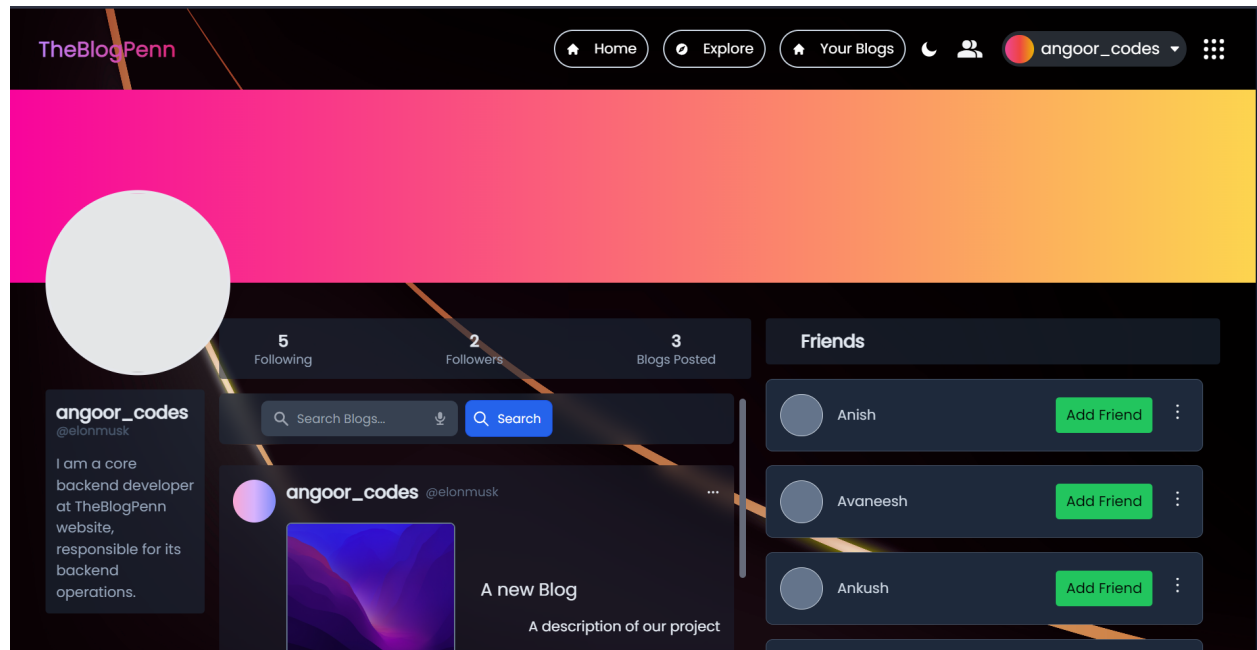
This is the most important portion of the continue reading page which allows you to listen to the contents of the blog by clicking on the speak button . This is one of our main USPs as well.

## SEARCH FRIENDS



Coming to the social media features of our product, let's come to the search friends feature, which allows you search for people you might want to connect with. And add them as friends making your blogs visible to them. It also allows you to un-friend people whom you don't want reading your blogs/ whose blogs you don't want to read.

## MY PROFILE PAGE



The my profile page allows you to view your friends, blogs and search for your blogs as well. This allows you to personalize your profile and also get an idea about how your blog page is performing.

## What we used from the course( Software Engineering)

Sure! Here's the report on the completed blogging website project, written in the past tense:

The blogging website project was successfully completed over the course of 3 months, using an Agile methodology.

During the planning phase, the project team defined the website's goals, identified the target audience, and created a list of required features and functionalities. The team also developed a content strategy, created a wireframe for the website layout, and set project timelines and milestones.

In the design phase, the team created a visual design for the website based on the wireframe. The team finalized the color scheme, and layout of the website, and created logo and branding assets.

During the development phase, the team created the front-end and back-end of the website, implemented the design, and added the required features and functionalities. The team set up the content management system, integrated social media platforms, and set up website hosting.

In the testing phase, the team tested the website for usability, functionality, and compatibility with different browsers and devices.

In the post-launch phase, the team monitored website analytics, tracked website performance, and identified areas for improvement. The team updated content, fixed bugs and issues, and added new features and functionalities as required.

The project was completed within the planned timelines, and the website was launched with all the required features and functionalities. The website is now live and available to the public, and the team continues to monitor and maintain the website to ensure it meets the needs of the target audience.

## TECHNOLOGY USED

The tech stack that was used to come up with the product was MERN(Mongo DB(database), Express JS(Backend Framework), React JS(Front-end Framework) and Node JS(Backend Framework))

Here are the reasons that we decided to go for the above framework:



Here are five points explaining why the MERN stack is a great choice for projects:

1. Full-stack Development: The MERN stack is a full-stack development technology that includes all the necessary components for building a web application, including the front-end, back-end, and database. This makes it easy to build a complete application without the need for additional technologies.

2. JavaScript-Based: All components of the MERN stack are built using JavaScript, which makes it easy to create a cohesive, seamless user experience. This also means that developers do not have to learn multiple programming languages or frameworks to work on different parts of the application.

3. Highly Scalable: The MERN stack is highly scalable, which means it can handle a large volume of traffic and data. This makes it an ideal choice for projects that require fast and reliable performance.

4. Large Community: The MERN stack has a large and active community of developers, which means there is a wealth of resources available for developers to learn and solve problems. This also means that there are plenty of libraries and tools available to make development faster and more efficient.

5. Open-Source: All components of the MERN stack are open-source, which means that they are free to use and can be customized to meet the specific needs of the project. This also means that developers can contribute to the community by creating and sharing their own tools and libraries.

## FUTURE SCOPE

BlogPenn, being a blogging website, can have several potential impacts on the economy in the future. Here are a few examples:

1. Job Creation: As BlogPenn grows and gains more popularity, it may require additional staff to maintain and update the website, create content, and manage social media accounts. This can create job opportunities in the content creation, marketing, and technology sectors.

2. Advertising Revenue: As BlogPenn generates more traffic and attracts more readers, it can attract more advertisers, which can lead to increased revenue. This revenue can be used to support the growth and expansion of the website, which in turn can contribute to the economy.

3. Increased Demand for Freelance Writers: BlogPenn can also create more opportunities for freelance writers to earn money by creating content for the website. This can help to support the growing gig economy and increase the demand for freelance writers.

4. Increased Online Presence for Small Businesses: BlogPenn can also serve as a platform for small businesses to promote their products and services online, which can increase their online presence and potentially lead to increased sales.

5. Increased Traffic to Affiliate Sites: As BlogPenn generates more traffic, it can potentially drive traffic to affiliate sites, which can lead to increased sales and revenue for those businesses.

6. A potential news platform: As BlogPenn generates more and more traffic it can potentially serve as a news platform for the major occurrences all over the globe and make the world an even smaller place and much easier to keep up with.

Overall, the impact of BlogPenn on the economy will depend on its ability to grow and attract readers and advertisers. However, it has the potential to create job opportunities, support small businesses, and contribute to the growth of the digital economy.

### Group name and Team members

Group Name: The Moderators

Team Members:

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