GLA UNIVERSITY, MATHURA

Blogging Web Application

Using

MEAN Stack

Submitted By

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Reason for selecting the topic

We chose the topic because we wanted to build something really dynamic system for posting blogs for the users. The main aim of developing this platform is to create a team blog, allowing multiple bloggers to contribute to a single blog. We select which team members have administrative authority and which are authors only. We can also choose to make our blog private and restrict who can view it.

Objectives of the project

Publishing content to a blog is frequently seen as a decent method to connect with people with similar interest. This blog is a kind of site that is included sections either made by the understudies or different individuals. A blog is an extraordinary path for an individual to figure out how to make their own site. There are many options available for blog like WordPress, web blog etc. In this we can create only individual blogs on which we can post or share anything that we want which is publicly available. There is no way to create team blogs for any organization, company or institute. This will be done using the mean stack which basically is an open-source JavaScript software for building web sites and web application. *MEAN* is an acronym for MongoDB, ExpressJS, AngularJS and Node. The main objective of the web Blogging System is to manage the small print of Blogs, Topic ,Idea, Content, Entries. It manages all the knowledge regarding Blogs, Views, Entries, Blogs. The project is completely engineered at body finish and so solely the administrator is secure the access. the aim of the project is to create AN application to cut back the manual work for managing the Blogs, Topic, Views, Idea. It tracks all the small print regarding the thought, Content, Entries.

Feasibility Study

After doing the project blogging system, study and analyzing all the existing or required functionalities of the system, the next task is to do the feasibility study for the project. All projects are feasible – given unlimited resources and infinite time.

A) Economical Feasibility

B) Technical Feasibility

C) Operational Feasibility

Future Scope

This web application will be utilizing this publishing content to a blog stage educator can undoubtedly advance significant notification identified with the association to their understudies. Understudies can post their recommendations and input for the association. In the event that somebody can't communicate her/his view before individuals those likewise share the things through this contributing to a blog framework.

It can be summarized that the future scope of the project circles around maintaining information regarding:

1) Implement the backup mechanism for taking backup.

2) Automatic detection of errors like grammar.

3) Automatic notification to followers after posting blog

Methodology

This web application will be designed using HTML, CSS, JavaScript, AngularJS, mongo dB, NodeJS, and Express. The frontend part of the project will be done by HTML, CSS, JavaScript and the backend part will be done by NodeJS. All the data will be stored in mongoDB.

Mean Stack refers to a collection of JavaScript technologies used to develop web applications. Therefore, from the client to the server and from server to database, everything is based on JavaScript. *MEAN* is a full-stack development toolkit used to develop a fast and robust web applications. MEAN is a user-friendly stack which is the ideal solution for building dynamic websites and applications. This free and open-source stack offers a quick and organized method for creating rapid prototypes for web-based applications.

Components of MEAN Stack

MEAN is comprised of four different technologies:

- **M**ongoDB express is a schema less NoSQL database system
- **E**xpress JS is a framework used to build web applications in Node
- **A**ngularJS is a JavaScript framework developed by Google
- **N**ode.js is a server-side JavaScript execution environment

The online blogging system has been developed to override the problems prevailing in the practicing manual system. This software is supported to eliminate and, in some cases, reduce the hardships faced by this existing system. Moreover, this system is designed for the particular need of the company to carry out operations in a smooth and effective manner.

The Application is reduced as much as possible to avoid errors while entering the data. It also provides error message while entering invalid data. No formal knowledge is needed for the user to use this system. Thus, by this all it proves it is user-friendly. Online blogging system. It can Assist the user to concentrate on their other activities rather to concentrate on the record keeping.

HTML: HTML, which stands for Hypertext Mark-Up Language, is the language for describing structured documents as well as the language used to create web pages in the Internet.

*CSS***:** Cascading Style Sheets, fondly referred to as CSS, is a simple design language intended to simplify the process of making web pages presentable.

JavaScript: JavaScript is a scripting language and it is used on both client-side and server-side for making web pages interactive. It is a text-based language. Open and cross-platform.

MongoDB: MongoDB is a NoSQL document-oriented database; it is used for storing large amounts of data.

This platform provides an environment for posting or sharing knowledge throughout the organization. This gives detailed information about functional and non-functional requirements of users or students i.e. whatever they want to share then they can easily write on their blog and it can be viewed by the member in the organization. The purpose meets the goal of sharing the information in formal or in secure way.

Hardware and Software used

Hardware

Processor: Intel dual core

RAM: 1 GB

HARD DISK: 50 GB

Keyboard: 122 keys

Mouse: Optical mouse

Monitor: 22" color monitor

Software

Operating system: windows XP, windows 7, Linux

Database: mongo DB

Browser: Opera, Chrome, Firefox

Scripting Language: HTML, CSS, JAVASCRIPT, NodeJS, AngularJS, Python, Django, NodeJS

Test Technologies

For testing the web applications we will use "**burp suite**" to find and flaws in the website like XXS(cross site scripting), broken authentication, Security Misconfiguration and etc. With these testing we will make sure that the web application that we created is safe for the users and any errors will be fixed in real time. Apart from software we will make sure to make some test cases to check the website's feasibility individually. On the other hand, we will make sure to check OWASP to stay update with new bugs and injections.

What contribution would the project make and where?

We think that the project will be best suited for someone who likes to get exposer or want to expand their domain, personally or business wise. Because it will help them to send their target audience a message about themselves. This will help them grow and connect to more people. The field it will be effective the most would be for e-commerce for expanding business.

Problem Statement.

The problems we are going to solve through this project is the common problem that every new blogger face. Through this we are trying to give exposer to the user and convey a message to the target audience that the user need. It will be a place where people can share their knowledge to the world.

Scope for Extension into a Major Project

This project can further be extended to major project by adding some of the features which will make it easy for the user to find the most relevant content according to his or her interests by providing a certain set of different categories to the user. Further more the people who are following a person will get notified when that person will post some new content. If a user finds something interesting the he can save that post to favorites and at the same time they can leave a like for that post to which the author will get notified if somebody likes their post. Then the user will also be able to share the content to other users.

Conclusion

This project is only a major goal is to venture to satisfy the need to manage their project work. With the help of **MEAN** stack that we have used to make it possible for the user. This will prove to be a powerful web application satisfying all the requirements of the users. The objective of software is to show that the framework is capable of making the user satisfying their needs, fast and reliable.

The point of this paper is to examine the need Advanced publishing content to a blog which is a sort of site that permits parcel of passages either made by the individuals from the association. A blog is an incredible path for an individual to figure out how to make their own blog. Blogger appreciates the distinction of being one of the most mainstream contributing to a blog stages particularly for the association. This high-level publishing content to a blog has made the website well known on the grounds that it is free and offers anybody the capacity to deal with their own blog without the weight of details in facilitating the equivalent.

Few concluding points

- A description of the background and context of the project and its relation to work already done in the area.
- Made statement of the aims and objectives of the project.
- The description of Purpose, Scope, and applicability.
- We define the problem on which we are working in the project
- We Describe the requirement specification of the system and the actions that can be done on these things

- We understand the problem domain and produce a model of the system which describes operations that can be performed on the system.
- We included features and operation in detail, including screen layout.
- We designed user interface and security issue to system