

FULLSTACK USING NODE JS PROJECT SYNOPSIS

ON

MEMORIES SOCIAL MEDIA APPLICATION

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Reason for selecting the topic

I chose the topic because I wanted to build something really dynamic system for posting memories for the users. The main aim of developing this platform is to create a platform, allowing multiple users to share their beautiful memories among other users. User can like the memories shared by other users. Only the user posting the memory will be allowed or authorized to delete the post posted by him and he can modify any of his posts at any given point of time. Also, the user can signup to the application using their google accounts. This project will be highly scalable and it could be easily be modified as per the user convenience.

Objectives of the project

Publishing content on the application is frequently seen as a decent method to connect with people with similar interest. This memories application is a kind of site that is included sections either made by the understudies or different individuals. A memory is an extraordinary path for an individual to figure out how to make their own site. In this we can create only individual memories on which we can post or share anything that we want which is publicly available. This will be done using the MERN stack which basically is an open-source JavaScript software for building web sites and web application. **MERN** is an acronym for MongoDB, ExpressJS, ReactJS and NodeJS. The main objective of the Memories Social Media Application is to manage the small print of Posts, Topic ,Idea, Content, Entries. 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 Posts, Topic, Views, Idea. It tracks all the small print regarding the thought, Content, Entries.

Feasibility Study

After doing the project Memories Social Media Application, 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 allowing a user to post some of his/her best memories which will be publicly available for the users. 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 post 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 a new memory.

Methodology

This web application will be designed using HTML, CSS, JavaScript, ReactJS, 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.

Mern 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. **MERN** is a full-stack development toolkit used to develop a fast and robust web applications. MERN 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 MERN Stack

MERN is comprised of four different technologies:

- **MongoDB** express is a schema less NoSQL database system
- **Express JS** is a framework used to build web applications in Node
- **ReactJS** is a JavaScript framework developed by Facebook
- **Node.js** is a server-side JavaScript execution environment

The memories social media application 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. Memories Social Media Application 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 memories throughout the organization. This gives detailed information about functional and non-functional requirements of users i.e. whatever they want to share then they can easily write on their post 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, ReactJS, NodeJS

Test Technologies

For testing the web applications we will use “**burp suite**” to find and flaws in the website like XSS(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 exposé 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 user face. Through this we are trying to give exposé 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 memories to the world.

Scope for Extension of the Project

This project can further be extended to 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 then 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 **MERN** stack that I 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.

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