

Social Media Website Using Mern

Authors:

Prakash Kumar, Yugal Raj Vimal , Shreyansh Saxena

Guide Prof: Suman Kumar Jha

Assistant Professor , Department Of CSE

Department Of Computer Science and Engineering

IIMT College Of Engineering

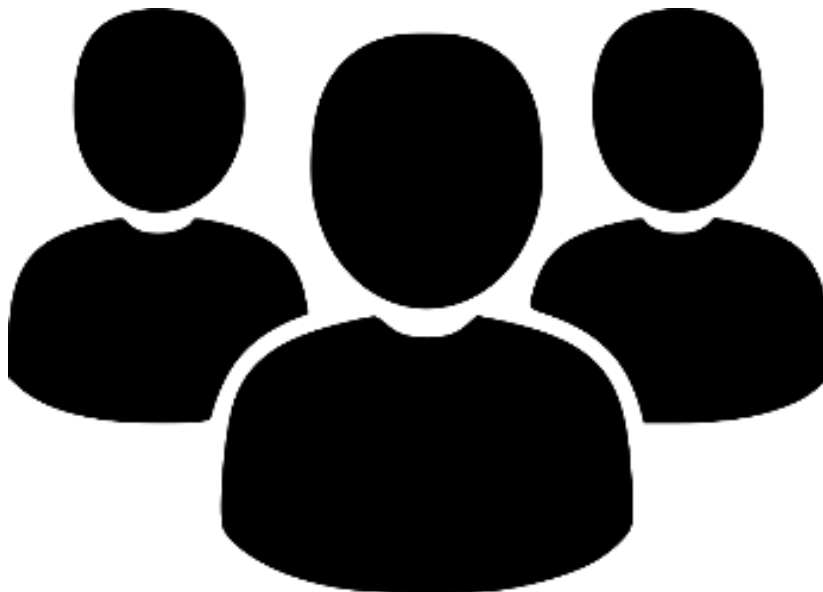
Chapter : 1Abstract

It was very difficult years ago to communicate with friends or family living in distant and far off places, thanks to technology that is not a problem anymore. The present system is developed such that a registered user maintains his/her own profile and could also search other similar peer profiles over the application. If the earlier trend was making associations and groups physically, the present generation believes in making online communities and forms to discuss issues related to various and diverse topics.

Key Features of the Social Media Website are:

- Users can send mails and messages online to friends in profile list which may include multimedia messages as well.
- Users will have an inbox and outbox containing received and sent messages.

Chapter : 2Motivation



Increase Security :

Users can set privacy settings for their profile

Communication :

People can search for long lost friends or family members and can get back in touch with them through this site.

Privacy:

Only registered can send friend requests to other users of the site and add them to friends list, similarly can accept friend requests sent by other peers

Chapter : 3

(Literature Survey related to SOCIAL MEDIA WEBSITE)

SL No.	Paper Title	Authors	Year	Name of Publisher	Technology
1	The Effect of Social Media on Society	Mulugeta Maharaj Singh	4, August 2009	Journal of Social Media	Machine Learning, Analytics User
2	User Engagement on Social Media Platforms	Smith, J.	January 21, 2009	International Journal of Cybersecurity	Encryption Security Protocols
3	Privacy and Security Concerns in Social Media	Williams, B.	6 Feb 2019	Journal of Mental Health Studies	Data Mining, Sentiment Analysis

4	Impact of Social Media on Mental Health	Chen, Q., & Lee, H	9, July 2018	ACM Transactions on	Machine Learning, Fairness
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5	Algorithmic Bias and Fairness	Garcia, M., & Patel, R	March 2014	Journal of Communication Research	Natural Language Processing, Data Mining
6	Fake News and Misinformation	Wang, Y., & Zhang, L	24 January 2010	Political Communication Review	Text Analysis, Political Science
7	Social Media and Political Discourse	Brown, K., & Adams, S	June 3, 2008.	Journal of Online Community Moderation	Content Filtering, Moderation Tools
8	User-generated Content Moderation	Kim, C., & Lee, S	3 Feb 2013	Big Data Research	Augmented Reality, Blockchain

Chapter : 4 Literature review

1. Algorithms play a crucial role in shaping users' experiences, impacting content visibility and interaction patterns.
2. Users engage with social media for various purposes, including socializing, content consumption, and professional networking.
3. AI and ML technologies are being leveraged for content recommendation, personalized user experiences, and moderation tasks.
4. Maintaining ethical standards is crucial for sustaining user trust and platform credibility

**Chapter : 5****Problem formulation/Objectives****1. Communication and Connectivity:**

Problem: **Traditional communication methods can be slow and limited in reach.**

Solution: **Social media enables instant communication and connection with people worldwide, fostering real-time interactions and relationships.**

2. Information Sharing and Dissemination:

Problem: **Difficulty in sharing information on a broad scale.** Solution: **Social media provides a platform for quick and widespread dissemination of information, news, and updates, facilitating knowledge-sharing.**

3. Community Building:

Problem: **Difficulty in finding and connecting with like-minded individuals.**

Solution: **Social media allows users to join communities, groups, and forums based on shared interests, fostering a sense of belonging and facilitating niche discussions.**

Chapter : 6 Planning of work

Upload a Post.

Delete a Post by the user who have posted it.

ChatBot System.

Edit a Post.

Can view Other Posts.

Can comment on other Post.



Methodology:**1. Technology Stack Selection:**

Choose Backend Technologies: **Select a backend framework (e.g., Node.js, Django, Ruby on Rails) and a database (e.g., MongoDB, MySQL).**

Choose Frontend Technologies: **Select a frontend library or framework (e.g., React.js, Angular, Vue.js).**

2. System Architecture Design:

Database Schema: **Design the database schema to store user data, posts, comments, etc.**

API Design: **Plan the structure of the API that will facilitate communication between the frontend and backend.**

3. Backend Development:

User Authentication: **Implement secure user authentication and authorization mechanisms.**

Database Implementation: **Develop backend logic for storing and retrieving data from the database.**

API Development: **Create APIs to handle requests from the frontend.**

4. Frontend Development:

Responsive Design: **Implement a responsive design for optimal user experience on various devices.**

For developing a social Media Website following steps are involved**1. Security Measures:**

Implement security measures to protect user data. Address common security vulnerabilities.

2. Testing:

Perform thorough testing for functionality, security, and usability. Conduct user testing to gather feedback for improvements.

3. Mobile Responsiveness:

Ensure that the website is responsive and functions well on various devices. Consider developing a dedicated mobile app for enhanced user experience.

4. Messaging System:

Develop a private messaging system between users. Implement notifications for new messages

5. System Architecture Design:

Design the database schema to store user data, posts, comments, etc.

Plan the structure of the API that will facilitate communication.

6. Backend Development:

Implement secure user authentication and authorization mechanisms. Create APIs to handle requests from the frontend.

Chapter : 7

Facilities required for proposed work

HTML

CSS

JAVASCRIPT

SCSS (CSS EXTENSION)

NODEJS

EXPRESS

MONGODB

PASSPORT



JavaScript



Softwares Required

Html: For building the Structure of the Website.

CSS: For giving the desining to the website.

Javascript: For making the website interactive.

MongoDB: For storing data in the database.

NodeJs: For Scalable, asynchronous, JavaScript runtime environment.

Express: As a Web application framework in JavaScript.

Passport: For Authentication Purpose

SCSS: CSS Pre-processor for styling.



Chapter : 8 Bibliography/References**1. Facebook's Impact on Society:****Research articles on the societal impact of Facebook.****Check academic journals for studies on user behavior and social implications.****2. Twitter and Information Dissemination:****Explore studies on how Twitter is used for information dissemination and real-time events.****3. LinkedIn for Professional Networking:****Look into articles discussing the role of LinkedIn in professional networking and career development.****4. Instagram and Visual Communication:****Find research on the use of visual communication on Instagram and its impact on user engagement.****5. YouTube and Content Consumption:****Investigate studies on YouTube's influence on content consumption and user-generated.**