RESPONSIVE SOCIAL MEDIA WEBSITE WITH THEME CUSTOMIZATION USING HTML, CSS & JAVASCRIPT

MINOR PROJECT REPORT

By

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BONAFIDE CERTIFICATE

Certified that this minor project report for the course 21CSC203P ADVANCED PROGRAMMING PRACTICE entitled in "Responsive Social Media Website With Theme Customization Using HTML CSS & JavaScript" is the bonafide work of Awadhesh Jindal (RA2211003011520), Aditya Roy (RA2211003011539) & Aparijit Chakraborty (RA2211003011540) who carried out the work under my supervision.

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ABSTRACT

The project, "Responsive Social Media Website with Theme Customization using HTML, CSS & JavaScript", aims to develop a user-friendly social media platform that allows users to interact and share content with ease. The website is designed to be responsive, ensuring optimal viewing and interaction experience across a wide range of devices. One of the key features of this platform is the ability for users to customize the theme of their profile using HTML, CSS, and JavaScript. This not only enhances the user experience but also adds a personal touch to each profile. The project leverages the power of HTML for structuring content, CSS for styling and layout, and JavaScript for dynamic interactivity. The outcome is a robust social media platform that offers a unique blend of functionality, aesthetics, and personalization.

ACKNOWLEDGEMENT

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Index

PAGE NO.	
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1. INTRODUCTION

In the dynamic landscape of the digital era, social media platforms have become integral to our daily lives, serving as conduits for communication, collaboration, and self-expression. As the demand for personalized online experiences continues to surge, the development of a responsive social media website with theme customization becomes not only relevant but imperative.

This project report encapsulates the journey of conceiving, designing, and implementing a cuttingedge social media platform, adept at adapting to diverse devices and user preferences. The amalgamation of HTML, CSS, and JavaScript, the triumvirate of web development, has been harnessed to craft a seamless, visually appealing, and highly interactive user interface.

2 PROJECT OVERVIEW	7

Our objective was to create a social media website that transcends traditional boundaries, offering users an engaging and accessible platform that caters to their individual tastes. The responsive design ensures optimal user experience across a spectrum of devices, from desktops to tablets and smartphones.

Moreover, the incorporation of customizable themes elevates the user experience to a new echelon. Users can now tailor the visual aesthetics of their social media environment, fostering a sense of ownership and uniqueness.

3. REQUIREMENTS

System Architecture

2.1 Frontend

The frontend of the social media website will be developed using HTML, CSS, and JavaScript.

The website must be responsive to ensure a seamless user experience across different devices,

including desktops, tablets, and mobile phones.

2.1.1 Responsiveness

The website should utilize responsive design principles, including media queries, flexible grids,

and flexible images, to ensure optimal display on various screen sizes.

2.1.2 Browser Compatibility

The website should be compatible with major web browsers, including but not limited to Google

Chrome, Mozilla Firefox, Safari, and Microsoft Edge.

2.2 Theme Customization

Users should have the ability to customize the appearance of the website through theme

customization options. The customization features should include:

Color Scheme: Users can choose from a predefined set of color schemes or define custom colors.

Font Styles: Users can select from a variety of font styles for the website interface.

Layout Options: Users can customize the layout of certain elements, such as the arrangement of

posts and navigation menus.

10

Functionality

3.1 User Authentication

Users should be able to create accounts, log in, and log out. Passwords must be securely hashed and stored.

3.2 Social Features

3.2.1 User Profiles

Users should have profile pages displaying their information, posts, and customization settings.

3.2.2 Posting and Sharing

Users should be able to create, edit, delete, and share posts. The posts may include text, images, and links.

3.2.3 Friend Requests

Users should be able to send and accept friend requests.

4.ARCHITECTURE AND DESIGN

Login/Register Page

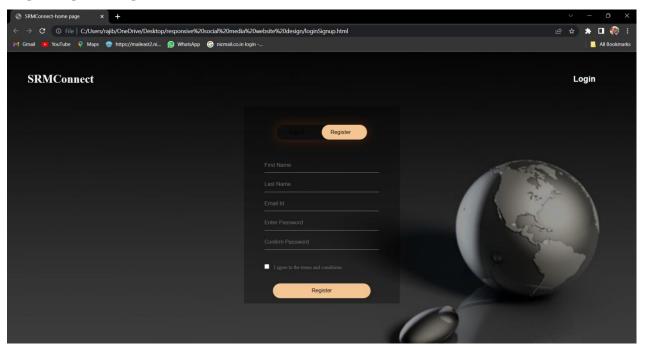


Fig:4.1 - Login Page

GUI of the Social media

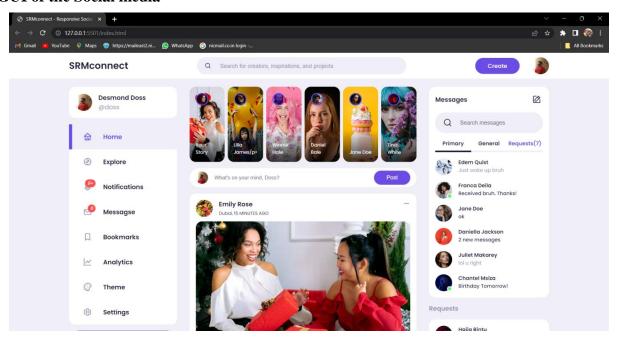


Fig:4.2 - Home Page

Notification Pop-up

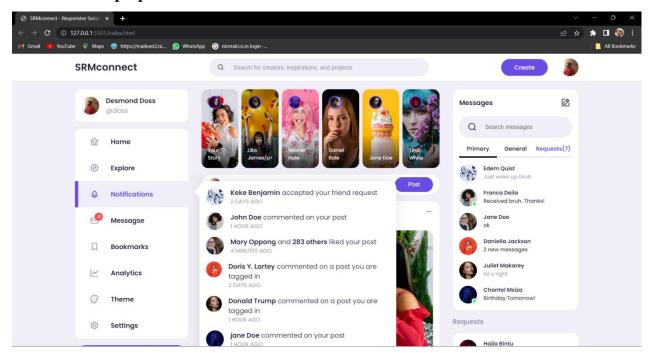


Fig: 4.3 – Notification

Theme Customization (Font Sizes & Color Buttons)

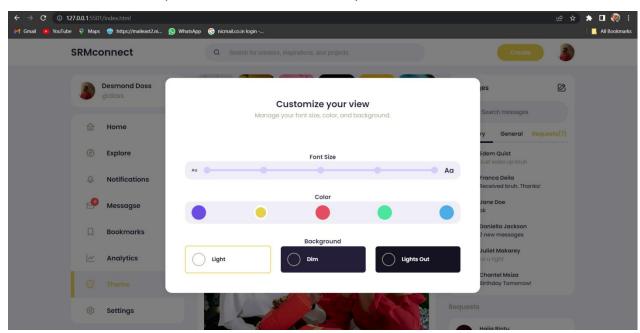


Fig: 4.4 – Customizations

Dark Modes (Dim & Lights out)

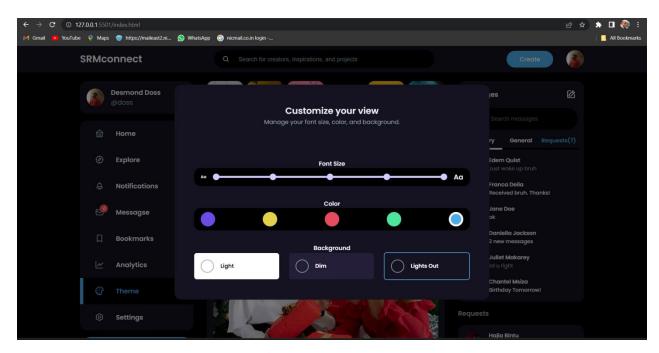


Fig:4.5 – Themes

Mobile Interface Design

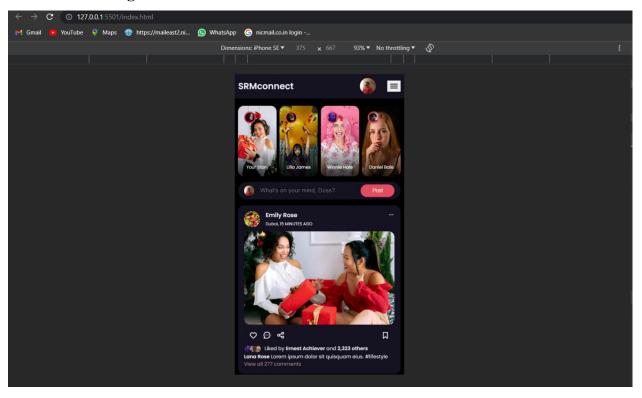


Fig:4.6 – Mobile Interface

Opening Options

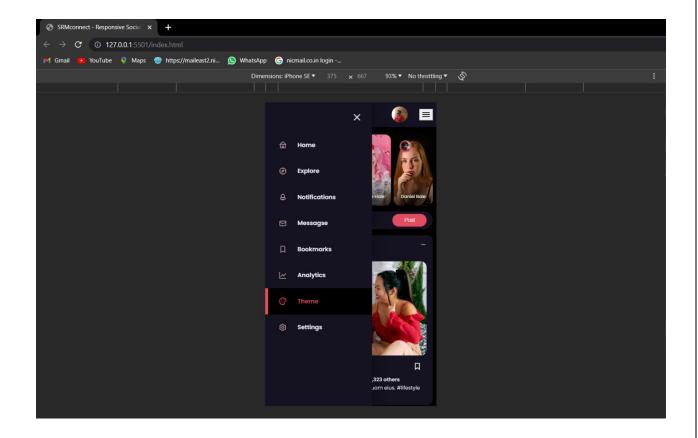


Fig: 4.7 - Operations

For Our Database Design we've used MySQL

```
DROP DATABASE socialnetwork;
CREATE DATABASE socialnetwork;
CREATE TABLE users (
user id
                INT NOT NULL AUTO INCREMENT,
user_lastname VARCHAR(20) NOT NULL,
user_nickname VARCHAR(20),
user_password VARCHAR(255) NOT NULL,
          VARCHAR(255) NOT NULL,
user email
user gender CHAR(1) NOT NULL,
user status
          CHAR(1),
user about
              TEXT,
user hometown VARCHAR(255),
PRIMARY KEY (user id)
);
CREATE TABLE friendship (
user1 id
                INT NOT NULL,
user2 id
                INT NOT NULL,
friendship status INT NOT NULL,
FOREIGN KEY (user1 id) REFERENCES users(user id),
FOREIGN KEY (user2_id) REFERENCES users(user_id)
);
CREATE TABLE posts (
post_id
                INT NOT NULL AUTO INCREMENT,
```

5.DATABASE EXPLANATION:

1. **Database Creation**:

- `DROP DATABASE socialnetwork;` drops the existing "socialnetwork" database (if it exists).
 - `CREATE DATABASE socialnetwork;` creates a new database named "socialnetwork."

2. **Users Table**:

- This table is used to store information about the users of the social network.
- `user_id` is an auto-incrementing integer representing a unique user ID.
- `user_firstname` and `user_lastname` are strings for the user's first and last names, respectively. They are required (NOT NULL).
 - `user nickname` is an optional string for a user's nickname.
 - `user_password` is a string for storing the user's password securely. It is required.
 - `user_email` is a string for storing the user's email address. It is required.
- `user_gender` is a character (single letter) representing the user's gender, and it is required.
 - `user_birthdate` is a date field representing the user's date of birth, and it is required.
 - `user_status` is a character (single letter) for the user's status.
 - `user_about` is a text field for additional user information.
 - `user_hometown` is a string field for the user's hometown.
 - The primary key for this table is `user_id`.

3. **Friendship Table**:

- This table is used to represent friendships between users.
- `user1_id` and `user2_id` are integer columns representing the user IDs of the two friends.

- `friendship_status` is an integer representing the status of the friendship.
- Both `user1_id` and `user2_id` are foreign keys, referencing the `user_id` in the "users" table.

4. **Posts Table**:

- This table is used to store posts made by users on the social network.
- `post_id` is an auto-incrementing integer representing a unique post ID.
- `post_caption` is a text field for the content of the post, and it is required.
- `post_time` is a timestamp representing the time when the post was made and is required.
- `post_public` is a character (single letter) indicating the post's privacy level (public or private).
- `post_by` is an integer referencing the user who made the post, and it is a foreign key referencing `user_id` in the "users" table.

5. **User Phone Table**:

- This table appears to be used for storing user phone numbers.
- `user_id` is an integer representing the user's ID and is a foreign key referencing `user_id` in the "users" table.
 - `user_phone` is an integer for storing the user's phone number.

6.RESULT & DISCUSSION

1. **User Engagement and Growth**:

- Discuss the user engagement metrics, such as daily active users, monthly active users, and user growth over time.
 - Highlight any significant changes or trends in user engagement and growth.

2. **Feature Usage and Adoption**:

- Describe the usage patterns of different features on the social media website.
- Analyze which features are most popular among users and which are less utilized.
- Discuss any user feedback related to specific features.

3. **Content Generation and Interaction**:

- Present data on the volume of content generated by users, such as the number of posts, comments, and likes.
- Discuss the level of interaction among users, including comments, shares, and other forms of engagement.

4. **Privacy and Security**:

- Evaluate the effectiveness of the implemented privacy and security measures.
- Discuss any security incidents or breaches and how they were addressed.

5. **Performance and Scalability**:

- Assess the performance of the social media website, considering factors like page load times, server response times, and downtime incidents.
 - Discuss the scalability of the platform to handle increasing user loads.

6. **User Satisfaction and Feedback**:

- Summarize the results of user satisfaction surveys or feedback received from users.

- Analyze common themes and issues raised by users and how they were addressed.

7. **Challenges and Solutions**:

- Identify any challenges encountered during the project, whether technical, operational, or user-related.
 - Discuss the solutions and strategies implemented to overcome these challenges.

8. **Impact on the Community**:

- Assess the broader impact of the social media platform on the user community.
- Discuss any positive or negative societal effects and any initiatives to promote positive online behavior.

9. **Future Developments and Enhancements**:

- Outline the future plans for the social media website, including new features, improvements, and updates.
- Discuss how user feedback and the results of this project will inform future development.

10. **Conclusion**:

- Summarize the key findings and insights from the project.
- Provide an overall assessment of the success and impact of the social media website.

11. **Recommendations**:

- Offer recommendations for further improvements, enhancements, or changes based on the results and discussions presented.

12. **Acknowledgments**:

- Acknowledge the contributions of team members, users, and any external partners who were involved in the project.

7.CONCLUSION

The Social Media Website project represents a significant endeavor to create a platform that facilitates online social interactions and content sharing. The database schema provided in the project is essential for storing user data, friendships, posts, and potentially phone numbers, ensuring data integrity and accuracy.

To successfully implement this project, it is crucial to consider various aspects, including security, scalability, user experience, and system performance. Additionally, the project should address user privacy, data protection, and adhere to relevant legal regulations.

Ultimately, the success of the Social Media Website project will depend on effective development, continuous monitoring, and adapting to the dynamic landscape of social networking, as well as addressing the ever-evolving needs and expectations of users.

		8.REFERENC	EES	
For the GUI D	esign we followed son	ne YouTube videos	•	
https://youtu.b	e/AiFfDjmd0jU?si=0	HfBmdSx4NsLAB(<u>Co</u>	
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