GLA UNIVERSITY, MATHURA

Department of Computer Science &Applications

Institute of Engineering &Technology

SYNOPSIS

Creatify- *Connecting Creative Minds*
(A Social Media Platform)

SUBMITTED TO:

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Technical Trainer

SUBMITTED BY:

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DECLARATION

We, the undersigned members declare that the group project submitted is our original work, and that we have acknowledged all the sources used in its preparation in accordance with the guidelines provided. We affirm that this project has not been submitted elsewhere for any other purpose, and that it does not infringe on the intellectual property rights of any third party.

We also certify that all the information provided in this project is true and accurate to the best of our knowledge. We understand that any misrepresentation or falsification of information may result in the rejection of our submission or the revocation of any award or recognition that may be conferred upon us. By submitting this project, we agree to abide by all the rules and regulations governing here.

Himanshu Tenguriya (201500297)

Divyansh Sharma (201500232)

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ACKNOWLEDGEMENT

We would like to express our sincere gratitude to everyone who contributed to the successful completion of this web development project group project.

Firstly, we would like to thank our project supervisor, Mr. Akash Kumar Choudharyfor providing us with invaluable guidance and support throughout the project. Your expertise in web development and constructive feedback helped us to refine our ideas and approach.

We would also like to extend our gratitude to our team members, for their dedication and hard work. Each team member brought their unique set of skills and expertise, and the collaboration and support throughout the project were instrumental in its success.

Finally, we would like to acknowledge the vast resources and online communities that provided us with valuable information and insight into web development, which helped us to overcome challenges and achieve our project goals.

Thank you all for your contribution and support.

Certificate of Completion

This is to certify that this group has successfully completed the group project synopsis on a social media platform(Creatify). The group has demonstrated a high level of knowledge, creativity, and innovation in the field of social media platform development.

The project involved the design and development of a social media platform that enables users to connect and share content with each other. The group members worked collaboratively to complete the project within the given time frame and to the satisfaction of the project supervisor.

The group demonstrated excellent communication, collaboration, and problem-solving skills, which were essential for the successful completion of the project.

We hope that the knowledge and experience gained from this project will help the group members to excel in their future endeavors. We wish them all the best in their future endeavors.

Date: Sign.

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INTRODUCTION

In today's digital era, social media platforms have become an integral part of our lives, providing a means of communication, entertainment, and information sharing. The popularity of social media platforms has given rise to an increasing demand for new and innovative platforms that cater to the evolving needs of users.

In this project, we designed and developed a social media platform using React JS and MongoDB. React JS is a popular JavaScript library used for building user interfaces, while MongoDB is a NoSQL database used for storing and managing large volumes of data.

The project involved designing and developing a user-friendly and interactive social media platform that enables users to connect and share content with each other. The platform was designed to be responsive, accessible, and scalable, catering to the needs of users across different devices and platforms.

Throughout the project, we faced several challenges, including designing a complex database schema, implementing secure user authentication and authorization, and optimizing the performance of the platform. However, we overcame these challenges by using best practices and innovative solutions, ensuring the successful completion of the project.

This synopsis report provides an overview of the project, including its objectives, methodologies, challenges, and outcomes. We hope that this report will provide valuable insights into the design and development of social media platforms using React JS and MongoDB, contributing to the advancement of the field.

ABOUT THIS PROJECT

The social media platform that the group designed and developed using React JS and MongoDB allows users to post creative ideas, showcase their talents, and share their skills with others. The platform was designed to provide a user-friendly and interactive interface that encourages users to share their creative ideas and talents with others.

The platform allows users to create profiles, post and share content, follow other users, and engage with content through likes, comments, and shares. Users can post a wide range of creative content, including art, music, photography, writing, and more. The platform also features a robust search and discovery system that enables users to find and connect with other users who share similar interests and skills.

To ensure the security and privacy of user data, the platform was designed with a comprehensive user authentication and authorization system. Users can sign up and log in securely using their email and password or their social media accounts. The platform also features a reporting system that enables users to report inappropriate or abusive content, ensuring a safe and welcoming environment for all users.

Overall, the social media platform developed by the group using React JS and MongoDB provides a unique and innovative platform for users to showcase their creative ideas, share their talents, and connect with like-minded individuals.

Primary Reason To Choose This Project

The primary reason for choosing this project of developing a social media platform that allows users to post creative ideas and showcase their talents is to provide a platform that encourages creativity, self-expression, and skill-sharing among users.

In today's digital era, social media has become a vital part of our daily lives. However, most social media platforms focus on sharing personal information or images rather than creative content. By providing a social media platform that focuses on creative expression and skill-sharing, the group aimed to offer users a unique and innovative platform to showcase their talents, connect with like-minded individuals, and explore new creative ideas.

The project also provided an opportunity for the group to explore and implement modern web development technologies such as React JS and MongoDB. React JS is a popular JavaScript library used for building user interfaces, while MongoDB is a NoSQL database used for storing and managing large volumes of data. By using these modern technologies, the group was able to design and develop a responsive, scalable, and user-friendly social media platform that caters to the needs of users across different devices and platforms.

Overall, the primary reason for choosing this project was to provide a unique and innovative social media platform that encourages creativity, self-expression, and skill-sharing among users, while also exploring and implementing modern web development technologies.

MAIN OBJECTIVE

The main objective of choosing this project of developing a social media platform for creative ideas and talents was to provide a platform that enables users to express themselves creatively, showcase their talents, and connect with like-minded individuals.

One of the primary goals of the project was to create a user-friendly and interactive platform that caters to the needs of users across different devices and platforms. The platform enables users to create profiles, post and share content, follow other users, and engage with content through likes, comments, and shares. Additionally, the platform features a robust search and discovery system that enables users to find and connect with other users who share similar interests and skills.

Another objective of the project was to ensure the security and privacy of user data. The platform was designed with a comprehensive user authentication and authorization system, which allows users to sign up and log in securely using their email and password or their social media accounts. The platform also features a reporting system that enables users to report inappropriate or abusive content, ensuring a safe and welcoming environment for all users.

Overall, the main objective of choosing this project was to provide a unique and innovative social media platform that encourages creativity, self-expression, and skill-sharing among users, while also ensuring the security and privacy of user data.

SCOPE OF THE PROJECT

The scope of the project of developing a social media platform for creative ideas and talents involved designing and developing a responsive and user-friendly platform that enables users to express themselves creatively, showcase their talents, and connect with like-minded individuals.

The scope of the project included the following aspects:

1. User Interface Design: The platform was designed to provide a user-friendly and interactive interface that encourages users to share their creative ideas and talents with others. The design included creating a visually appealing and responsive website layout that caters to the needs of users across different devices and platforms.
2. User Authentication and Authorization: The platform was designed with a comprehensive user authentication and authorization system, which enables users to sign up and log in securely using their email and password or their social media accounts.
3. Content Management System: The platform features a content management system that enables users to post and share a wide range of creative content, including art, music, photography, writing, and more.
4. Social Networking Features: The platform enables users to follow other users, engage with content through likes, comments, and shares, and discover new content and users through a robust search and discovery system.
5. Reporting System: The platform features a reporting system that enables users to report inappropriate or abusive content, ensuring a safe and welcoming environment for all users.

6. Database Management: The platform was built using MongoDB, a NoSQL database used for storing and managing large volumes of data.
7. Deployment: The platform was deployed on a web server, making it accessible to users across different locations and devices.

Overall, the scope of the project involved designing and developing a unique and innovative social media platform that encourages creativity, self-expression, and skill-sharing among users, while also ensuring the security and privacy of user data.

HARDWARE & SOFTWARE REQUIREMENT

Hardware Requirements:

1. Processor: Intel Core i5 or higher
2. RAM: 8GB or higher
3. Storage: 256GB or higher
4. Internet Connection: High-speed internet connection

Software Requirements:

1. Operating System: Windows 10 or macOS High Sierra or later
2. Integrated Development Environment (IDE): Visual Studio Code or any other suitable IDE for React JS development
3. Node.js: The latest stable version of Node.js and npm package manager
4. MongoDB: The latest stable version of MongoDB database management system
5. Git: The latest stable version of Git version control system
6. Web Browser: Google Chrome or any other modern web browser

In addition to the above requirements, developers may also need to use additional libraries, frameworks, and tools depending on the project's requirements and complexity. It is recommended to use the latest versions of all the required software to ensure compatibility and stability.
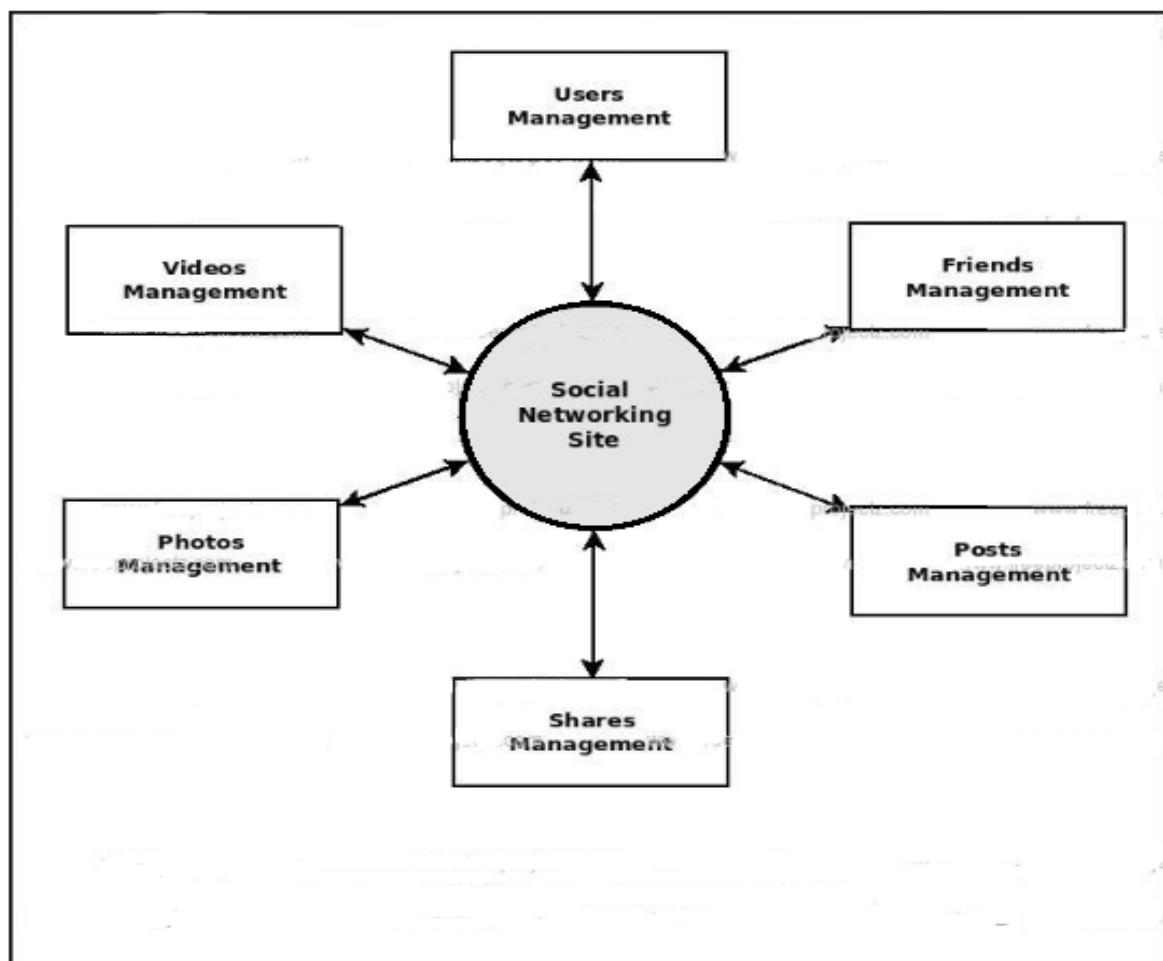
Module Description

1. User Authentication: This module handles user registration, login, and logout functionalities. It also manages user authentication and authorization, ensuring that only authenticated users can access specific features of the platform.
2. User Profile: This module allows users to create and manage their profiles, including adding profile pictures, personal information, and a short bio.
3. Posts: This module allows users to create, edit, and delete posts, including text, images, and videos. Users can also like, comment, and share other users' posts.
4. Search: This module enables users to search for other users, groups, and posts based on specific keywords or hashtags.
5. Reporting: This module allows users to report inappropriate content, such as hate speech, harassment, or spam. The platform's administrators can review and take appropriate action against reported content.
6. Analytics: This module provides insights into user activity, such as the number of posts, likes, and comments, as well as user demographics and engagement metrics.
7. Administration: This module enables administrators to manage the platform's users, groups, and content. Administrators can also configure platform settings, such as security policies and user roles.

DATA FLOW DIAGRAMS

Zero level DFD:

This is the Zero Level DFD of Social Networking Site, where we have eloborated the high level process of Social Networking. It's a basic overview of the whole Social Networking Site or process being analyzed or modeled. It's designed to be an at-a-glance view of Photos Videos and Social Network showing the system as a single high- level process with its relationship to external entities of Users. Friends and Posts It should be easily understood by a wide audience, including Users, Posts and Photos in zero leve DFD of Social Networking Site, we have described the high level flow of the Social Networking system:
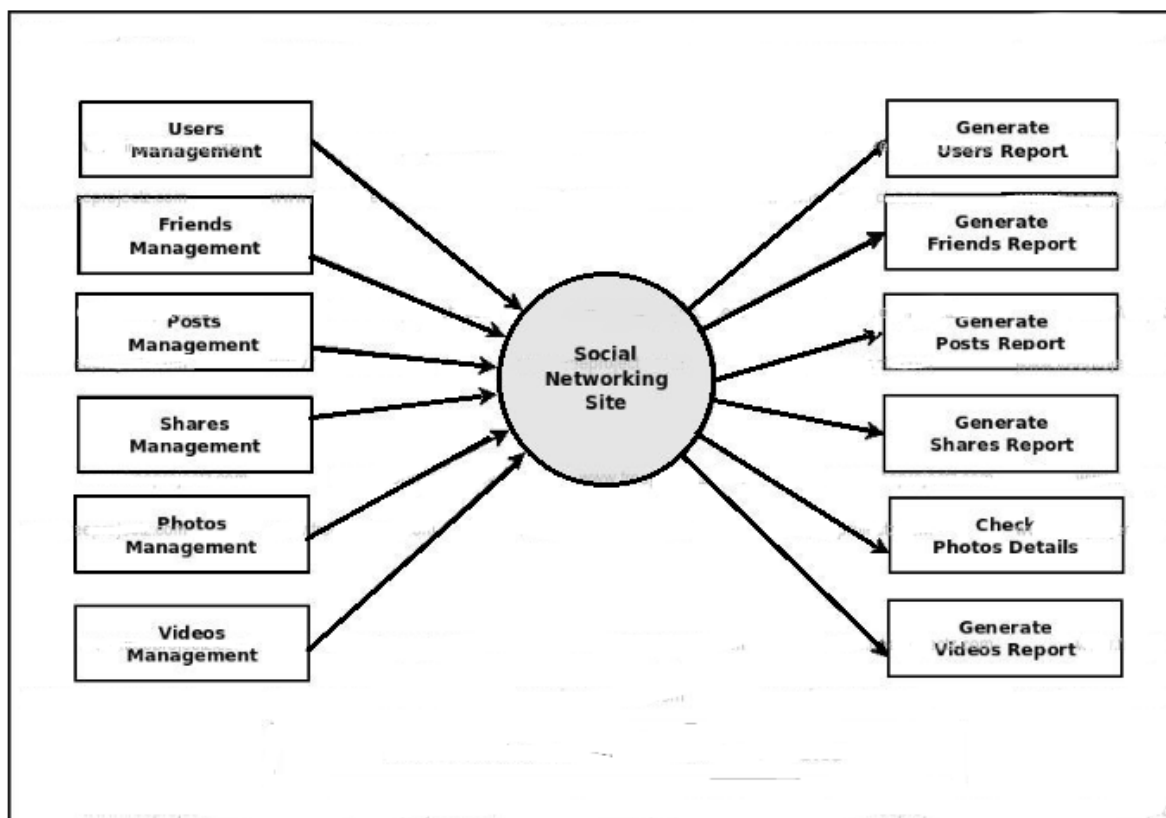
- High Level Entities and proccess flow of Social Networking Site:
- Managing all the Users
- Managing all the Friends
- Managing all the Posts
- Managing all the Shares
- Managing all the Photos
- Managing the Videos

First Level DFD:

First Level DFD (1st Level) of Social Networking Site shows how the system is divided into sub-systems (processes), each of which deals with one or more of the data flows to or from an external agent, and which together provide all of the functionality of the Social Networking Site system as a whole. It also identifies internal data stores of Social Network, Videos, Photos, Shares, Posts that must be present in order for the Social Networking system to do its job, and shows the flow of data between the various parts of Users, Posts, Videos, Social Network, Photos of the system. DFD Level 1 provides a more detailed breakout of pieces of the 1st level DFD. You will highlight the main functionalities of Social Networking:

- Main entities and output of First Level DFD (1st Level DFD):
- Processing Users records and generate report of all Users
- Processing Friends records and generate report of all Friends
- Processing Posts records and generate report of all Posts
- Processing Shares records and generate report of all Shares Processing Photos records and generate report of all Photos
- Processing Videos records and generate report of all Videos Processing Social Network records and generate report of all Social Network
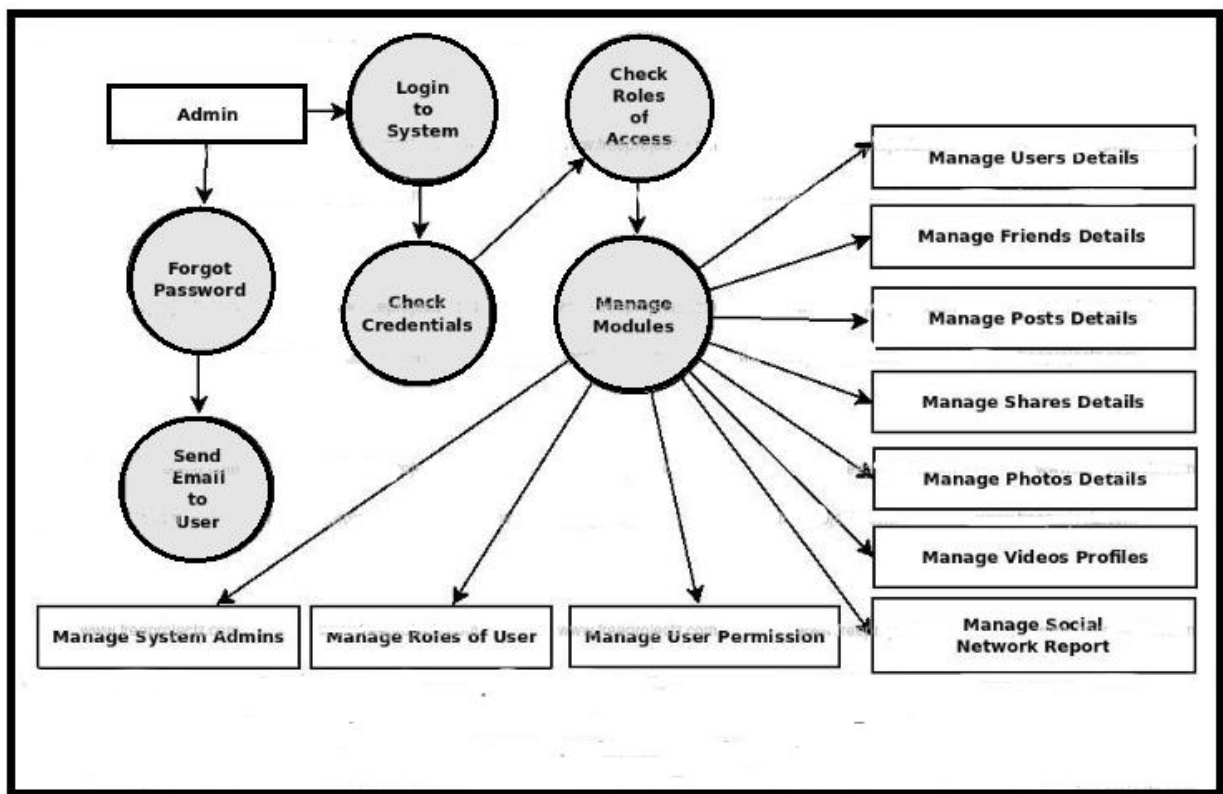
Second Level DFD:

DFD Level 2 then goes one step deeper into parts of Level 1 of Social Networking. It may require more functionalities of Social Networking to reach the necessary level of detail about the Social Networking functioning First Level DFD (1st Level) of Social Networking Site shows how the system is divided into sub-systems (processes)
The 2nd Level DFD contains Low level functionalities of Social Networking Site:

- Admin logins to the system and manage all the functionalities of Social Networking Site Admin can add, edit, delete and view the records of Users, Posts, Photos, Social Network Admin can manage all the details of Friends, Shares, Videos
- Admin can also generate reports of Users, Friends, Posts, Shares, Photos, Videos
- Admin can search the details of Friends, Photos Videos
- Admin can apply different level of filters on report of Users, Shares, Photos Admin can tracks the detailed information of Friends, Posts Shares, Photos

<u>REFERENCES</u>

Websites:

- W3Schools (https://www.w3schools.com/)
- MDN Web Docs (https://developer.mozilla.org/en-US/docs/Web)
- Stack Overflow (https://stackoverflow.com/)
- GitHub (https://github.com/)

Other Websites:

- www.java.sun.com
- www.google.com
- www.javawrench.com
- www.javaworld.com