

Social Media Platform for An Organization

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Abstract— *Social media is an interactive platform that aids in building the connections and via digital groups and networks, human beings can proportion their interests, ideas, hobbies, and different types of expression. This paper, "Social media for a firm" targets at bridging the distance among the personnel in an organization, with the aid of developing an unified one on one interactive social media platform, which could in the end enhance connections among the personnel within the organization. This consists of the personnel to engage with the alternative groups of the organization. Nowadays social networking is developing rapidly. Due to few barriers, we're constructing software to enhance connectivity within the organization. One of the foremost causes to construct this software is security. if we use 0.33 celebration packages in some unspecified time in the future a few attacks, information breaches e.t.c., might also additionally occur. On the whole, the goal of this mission is to increase a healthful social interplay platform for personnel within the organization.*

Indexed Terms— *PHP, Java Script, MVC architecture, Full Stack, React JS, Code Igniter*

I. INTRODUCTION

For this application we have used full stack Development. Entire full stack is divided into into two parts or two referential entities, with one front-end user interfaces and one back-end server for communication between the frontend and backend As mentioned in our application, there are front-end UI end points which were taken control by employees in an organization. Here, employees can create their user post within their interests and broadcast their post within the organization, because of this application many employees may have collaborative interests, so it helps in making good understanding between the

employees and may improve the good will for the firm. the application to the local enterprise and customers refer to the students majorly. In this application, with the help of React we have developed the front end and with the help of the codeIgniter PHP framework we have developed the backend, with the help of the POSTMAN we have done API (application programming testing) Testing.

• Scope and Proposed Model

The origin of a social media is to provide a way to interact with friends and family but was later adopted by businesses that wanted to take advantage of a popular new communication method to reach out to customers This project focuses on developing a web application, to establish the connection between the employees with in the organization. To do this, we will be using php and codeIgniter framework as the backend, and a React js Library for the frontend. Similar to some platforms like whatsapp, instagram, telegram. We are building our application to communicate within the organization. In the application we are also implementing current latest features which we will discuss in the further sessions. In this way, this application bridges the gap between the employees within the organization to make good will to their company.

II. LITERATURE SURVEY

• Full Stack

Full-stack development, in its simplest terms, refers to the creation of the front-end (client-side) and back-end (server-side) components of a website. Through the front-end or client-side interface, visitors or end users interact directly with online applications. The backend, often referred to as the server side, is the unobserved component of the program that does not interact directly with users but instead focuses on database and API development. Hence, full-stack

development refers to website development projects where a single developer is responsible for both front-end and back-end work. Full stack developers are programmers who can build entire websites and web applications using various client-side programming languages and frameworks.

- **HTML/CSS**

HTML is an abbreviation for Hypertext Markup Language, while CSS is an abbreviation for Cascading Style Sheets. These two languages are used to build websites and apps. While HTML is used to produce the website's static content, CSS determines how all HTML components appear on websites and apps.

- **React JS**

React JS is a java-script library used to create front-end sites with dynamic functionality. React is a component-based technique in which we create pages by breaking them down into individual components. The primary goal of React is component reusability and dynamic functionality between various pages of a website or application.

- **JavaScript**

It is a text-based coding or scripting language that may be used on both the client and server sides. It is used to add dynamic components to websites in order to make them more interesting. JavaScript may modify HTML and CSS to calculate, update, and check data.

- **CodeIgniter**

CodeIgniter is one of the Application Development Framework tools for PHP web developers. Its purpose is to allow you to develop projects much faster than if you were programming code from the start by offering a comprehensive set of libraries for often needed activities, it also provides a simple interface and logical structure to access these libraries. CodeIgniter allows you to focus on your project creatively by reducing the amount of code required for a specific activity.

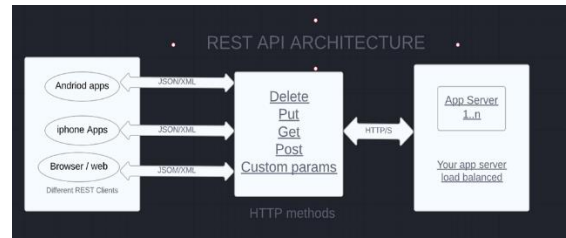
- **PostMan**

Postman is one of the foremost well known program testing devices which is utilized for API testing. With the assistance of this apparatus, designers can effortlessly make, test, share, and report APIs. This

instructional exercise will offer assistance in understanding why Postman is so celebrated and what makes it interesting when compared to other API testing apparatuses. All the cases in this instructional exercise are tried and can be imported in Postman.

III. SYSTEM ARCHITECTURE

- **Architecture**



REST stands for Representational State Exchange and API stands for Application Program Interface. REST may be a program engineering fashion that characterizes the set of rules to be utilized for making web administrations. Web administrations which take after the REST building fashion are known as Serene web administrations. It permits asking frameworks to access and control web assets by employing a uniform and predefined set of rules. Interaction in REST based frameworks happen through the Internet's Hypertext Exchange Convention (HTTP). A Tranquil framework comprises a client who demands for the assets and server who has the resources.

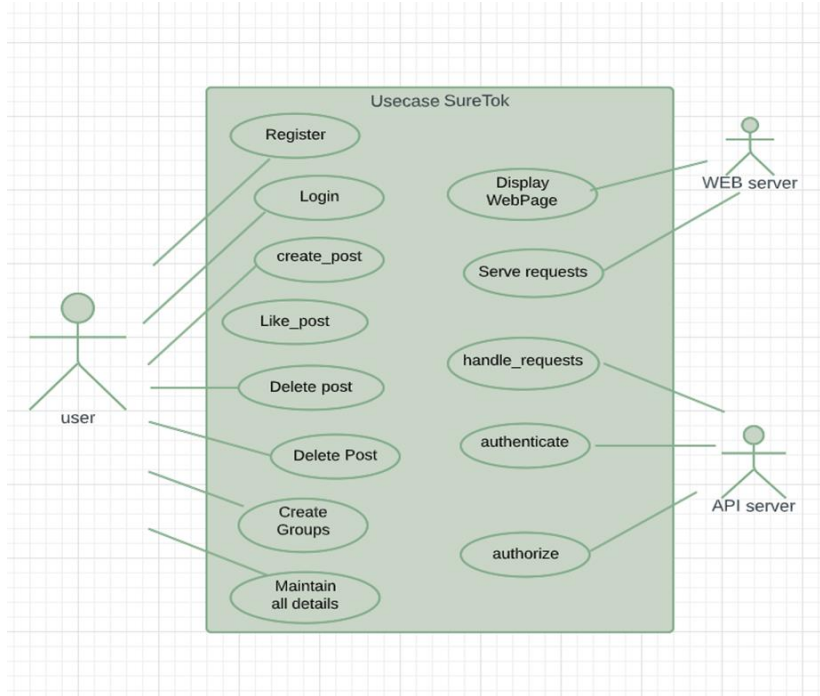
- **Data Flow Diagram**



The Model-View-Controller (MVC) architecture divides a programme into three core cohesive components: Model, View, and Controller. As a result, the abbreviation MVC. Each design component is created to address a certain application enhancement perspective. MVC separates the commercial reason and the introduction layer. MVC was traditionally designed for desktop graphical user interfaces (GUIs). MVC architecture in web innovation is currently widely recognised for developing online applications as well as flexible programmes.

IV. SYSTEM DESIGN

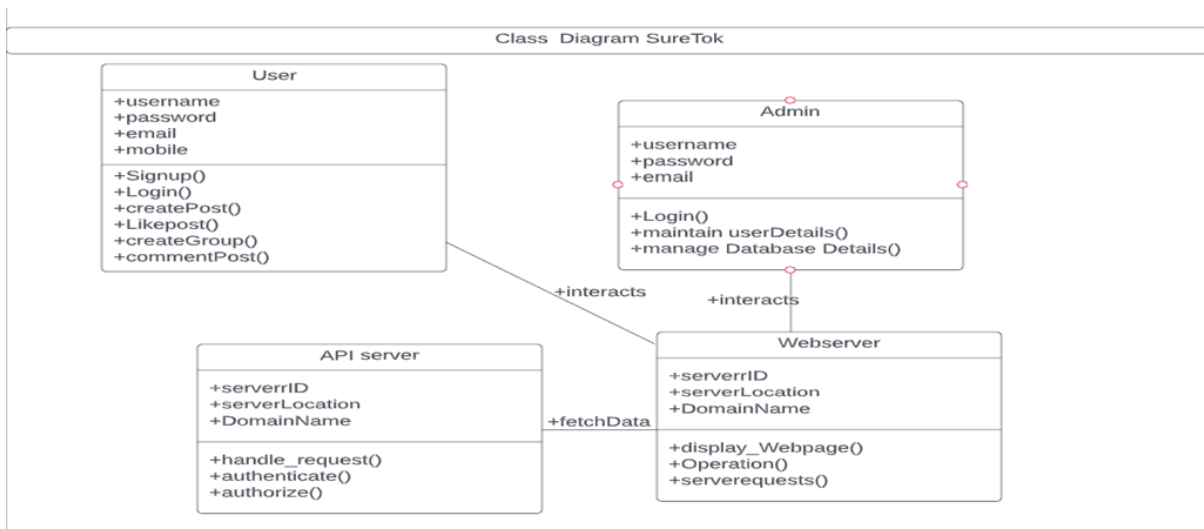
- Use-case Diagram



In the use case diagram the actors are users, admin, web server, API server, in which user can register to web application through the website and then he can personally create post of his interest, and like, comment, delete, share other employees posts, and their is the main important use case is report for the

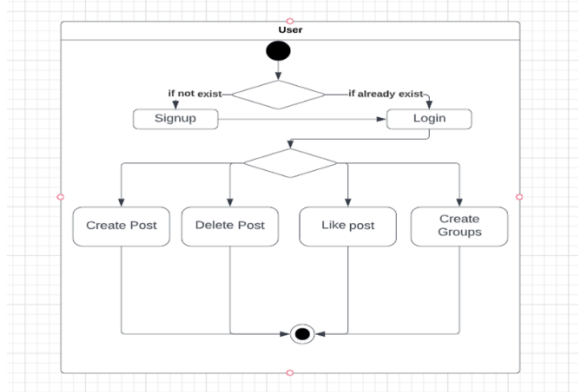
post, if the post is reported by particular count of employees then employee can delete the post. employees can create their groups of their own interest and then personally create their content and post in their personal groups

- Class Diagram



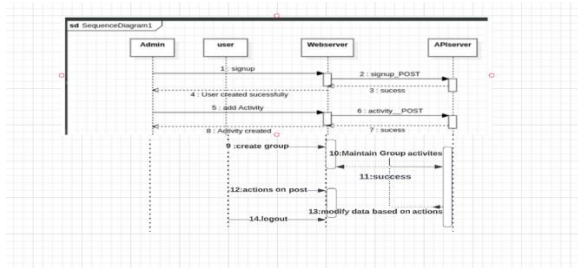
A class diagram depicts the attributes and behaviors of a class, as well as the system's restrictions. Class diagrams are commonly used in the design of object-oriented systems because they are the only case diagram that can be immediately converted to object-oriented languages.

- Activity Diagram



Here is the workflow diagram of activity diagram of the user, if the user does not exist the employee have to register with the organizational social media website and the activities of the user is to create post, like post , create post and delete post

- Sequence Diagram



sequence diagram depicts the sequence of actions of the user, admin, web server API server based upon the actions sequence, we have made a sequence diagram.

V. SYSTEM IMPLEMENTATION

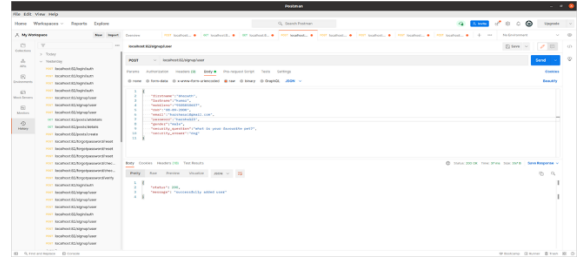


Figure 1: Firebase Real-time Database

With the help of the postman we do API integration Testing, API testing is one of the important tasks to integrate the front end with the backend.

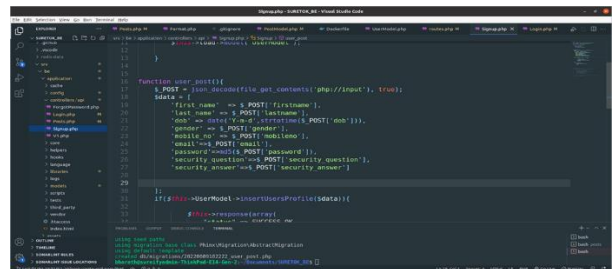
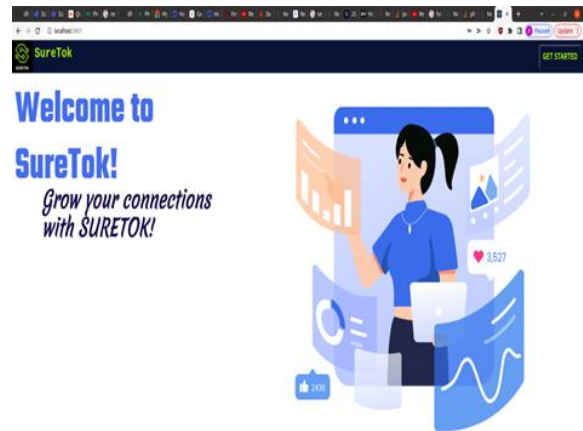


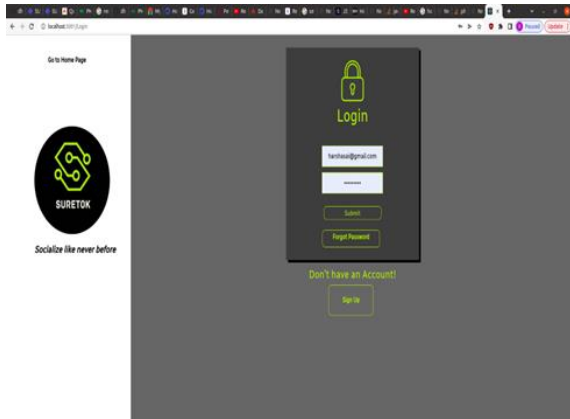
Figure 2 : Visual Studio React Code Structure

Sample React Code structure of user post in our application. We are using CSS for styling our web-pages and different concepts in React, like props, map, redux,states etc to achieve our objective.

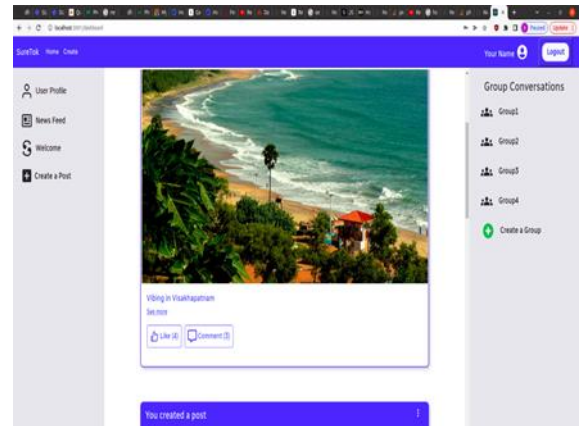
VI. RESULT AND OUTPUTS



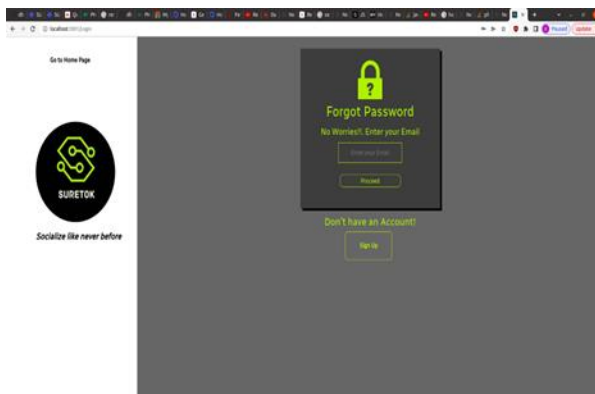
Landing Page



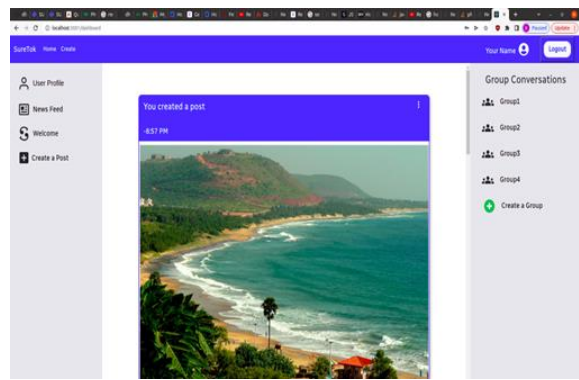
Employee Login page



User post in Dashboard Page



Forgot password page



User Dashboard



Fetching Details page

VII. CONCLUSION

We all know that as time progresses, more and more people will come online due to the rapid growth of technology. There might be some conflicts in the organization due to misunderstanding between the employees, and if we use third party applications there might be several issues in an organization. This application will help us to provide all the benefits with using the organizational social media platform

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