COLLEGEZONE

Statement About The Problem :-

There is a lack of communication among juniors, seniors and teachers due to absence of common online platform which ultimately results in less interaction among them. Only students who knows each other can talk.

Also faculty in our college have to post information to every WhatsApp group for each department and year which may sometime missed and cumbersome.

Why is the particular topic chosen?

This topic is chosen in order to provide a single platform where students can interact with other students as well as faculties. Students can share post regarding clubs in our college, Hackathon to be held in future, Notes, Recommends books etc.

Moreover, teacher can share post regarding CT schedule, class Time Table, CT marks, handwritten notes etc.

This system is designed for the particular need of the company to carry out operations in a smooth and effective manner.

The aim is to automate its existing manual system by the help of computerized equipments and full-fledged computer software, fulfilling their requirements, so that their valuable data/information can be stored for a longer period with easy accessing and manipulation of the same. Basically the project describes how to manage for good performance and better services for the clients.

OBJECTIVE AND SCOPE OF THE PROJECT:-

OBJECTIVE

- To make an interaction between all members of a college on a single platform.
- To promote easy transfer of knowledge.
- This project is open for only authenticated (registered in our college) people.
- The objective of the project is to reduce manual work.
- It keeps track of chat history as well.
- It also helps students knowing about their college mates as well as teachers.
- To increase efficiency of managing the Online Chat, Chat Application.
- User can also add about his/her achievement in bio section.
- It also supports uploading images.
- It also provides error message while entering invalid data.
- Integration of all records of users.

SCOPE

- It satisfy the user requirement.
- Be easy to understand by the user and operator.
- Be easy to operate.
- Have a good user interface.
- Be expandable.
- Scalable.

Process Description:-

Project has implementation of **MERN** Technology which is very much trending these days.

There will be two role – Teacher and Student.

In our Project we have **signup** as well as **login** page where only registered member will be allowed.

For authentication we will use enrollment number for a student and pay slip ID for a teacher.

After login and verification user will be redirected to homepage.

User can view his/her profile, edit it and delete some posts from his activity.

User can also add his/her achievements in the bio section.

Student can view posts which are public or relevant to his profile.

User will get a notification on email when any activity takes place on website.

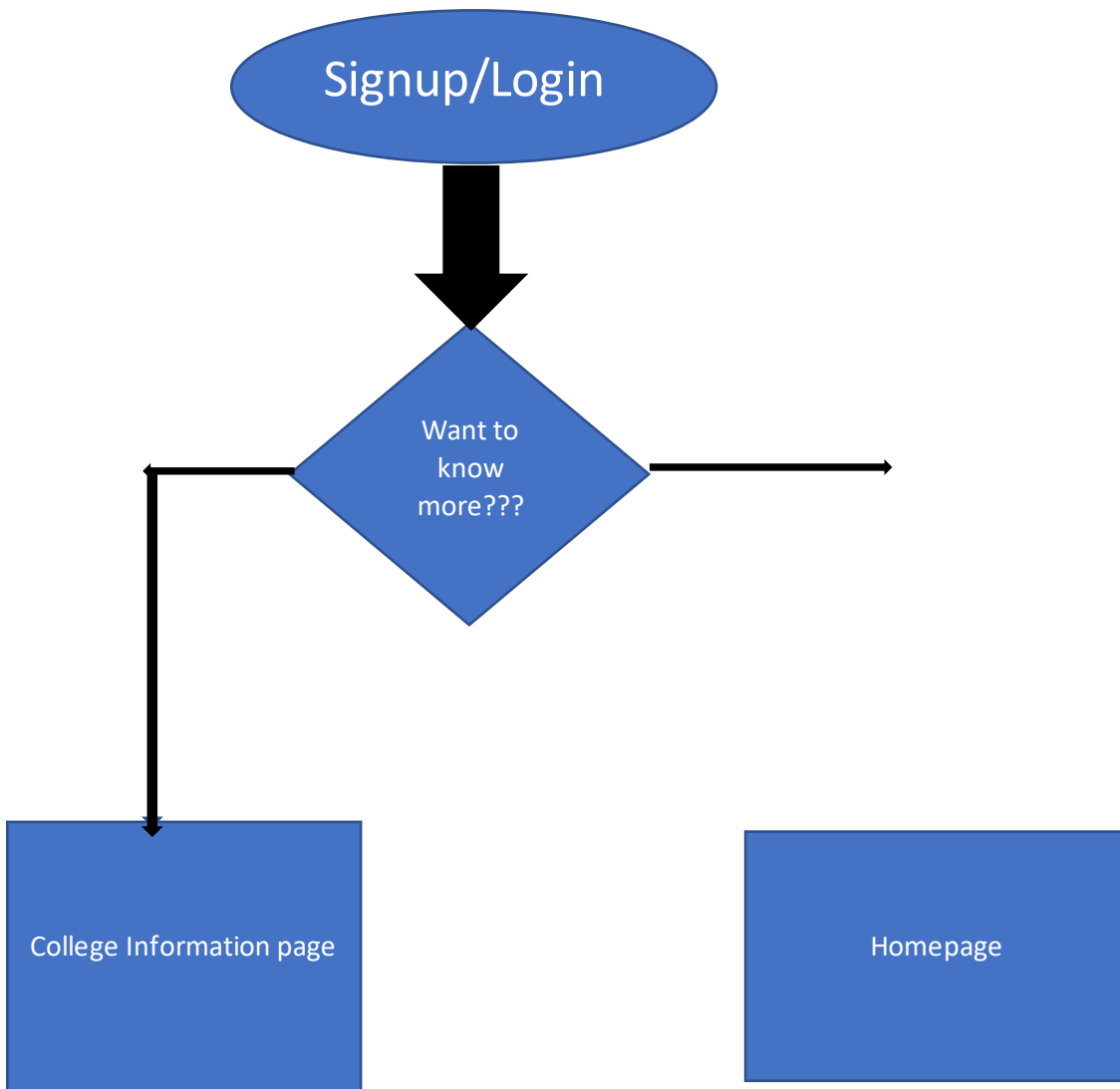Students can chat with other students as well as teachers of our college.

We can also schedule messages for a particular event, occasion.

If someone makes misuse of this functionality / website then he/she will be blocked directly by the teacher or the admin.

Project will Contain a page where one can know about college, placements, fee structure.

Later on we can add functionality of sharing google meet link or zoom link in this project.

Flowchart:-

```
            ┌─────────────────┐
            │   Signup/Login  │
            └────────┬────────┘
                     │
                     ▼
                  ╱─────╲
                 ╱ Want to ╲
    ◄───────────  know      ───────────►
                 ╲ more??? ╱
                  ╲─────╱
         │
         │
         ▼
┌──────────────────────┐        ┌──────────────────────┐
│                      │        │                      │
│ College Information  │        │       Homepage       │
│        page          │        │                      │
└──────────────────────┘        └──────────────────────┘
```

RESOURCES & LIMITATIONS:-

Resources

HARDWARE REQUIREMENTS:

- Processor : Core I3
- RAM : 2GB

SOFTWARE REQUIREMENTS:

- At least Window7
- Frontend : HTML, CSS, JAVASCRIPT
- Library : React.js
- Backend : Node.js, Express.js
- Database: MongoDB
- Tools : Git & Github
- Editor: Visual Studio Code

Limitations

Since our project is using free database, so this project cannot be used on large scale for now.

Internet connection is mandatory for using this project.

Automatic notification for chat is not supported as of now.

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SR GROUP OF INSTITUTIONS

A SYNOPSIS ON COLLGEZONE

MAJOR PROJECT

SEMESTER 7th (2022-2023)

SUBMITTED BY -   **PROJECT GUIDE**

Divyanshi Sahu (1901450100016)   Er. Aman Saluja Sir

Somya Seth (1901450100043)

Paras Sahu (1901450100027)