# **Faculty Management System**

# **Overview of the project**

A web-based application designed to manage faculty-related activities within an educational institution. It includes features such as faculty information management, course assignment, attendance tracking, and communication tools. As a discipline, it is intended to help businesses and their employees optimize how they deal with their management needs.

#### **Team information**

Project Name: Faculty Management System

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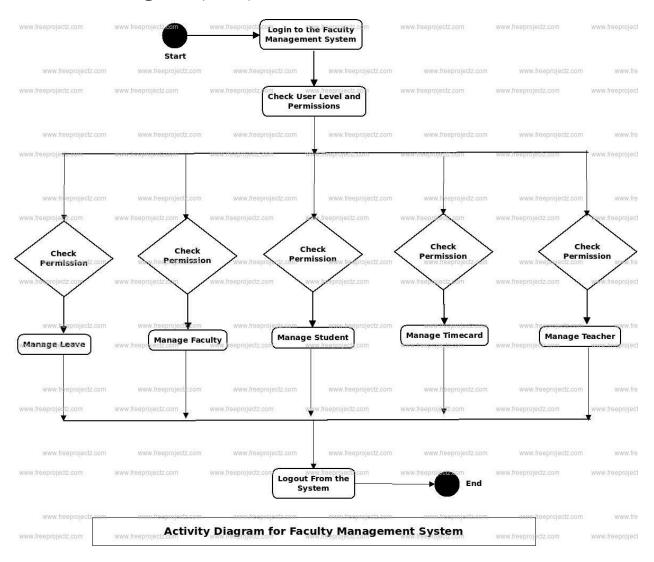
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## **Project Description**

- 1. **Login Page:** Users will access the system by providing their credentials. The login page will verify the user's identity and grant access based on their role.
- 2. **Registration Page:** New users, including students and faculty, can register for access. During registration, they will provide personal information and select their respective roles.
- 3. Add Teacher: In this we can appoint new teachers and assign subject related to their qualification.
- 4. **Remove Teacher:** We can remove teacher account.
- 5. **Add Subject:** We can add multiple subject.

6. Generate Notice: We can generate notice according to current situation it will display to all the faculty.

# **Data Flow Diagram (DFD)**



### Setup at your local machine

To set up the College Management System project on your local machine, follow these steps:

1. Clone the Repository:

git clone <repository\_url> cd college-management-system

**2. React installation:** The next step is to install react on your machine. To do this, use the following command on your command prompt.

npm install

**3. Nodejs installation:** The next step is to install nodejs on your machine. To do this, use the following command on your command prompt.

npm install

- **4. Connect MongoDb:** The next step is to connect mongodb with your database.
- **5.** To start the app: To start running the project on your machine, use the command:

npm start

- 6. **Install Dependencies:** Ensure you have the following dependencies installed:
  - React
  - React bootstrap
  - React Dom
  - Node js
  - Mongodb
  - Express
  - Doteny

### **Software Requirements:**

- 1.node.js installed
- 2. Active internet
- 3. React packages
- 4.mongo db
- 5.Express installed

## **Project Technical Specifications**

- 1. **Frontend:React.js** React.js, a popular JavaScript library for building user interfaces, is integrated into the project for specific functionalities and components.
- 2. <u>Backend:Node.js(Express):</u> Here are the main advantages of using Node. js for backend development we've found: Node. js works quite fast thanks to advanced client-server interaction processes, asynchronous requests processing, and no-blocking I/O, increasing both user satisfaction and SEO ranking.
- 3. <u>Database:(Mongodb):</u> it is a schema-less database, which means the database can manage data without the need for a blueprint. Document. Data in MongoDB is stored in documents with key-value pairs instead rows and columns, which makes the data more flexible when compared to SQL databases.

### Github link: