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Title of Project: COLLEGE AUTOMATION APP

**Name of college and department: DEPARTMENT OF
COMPUTER SCIENCE AND ENGINEERING, SRINIVAS
INSTITUTE OF TECHNOLOGY.**

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Introduction

College automation app is designed to streamline and simplify various aspects of Srinivas Institute of Technology, making it easier for students, faculty, and staff to manage their tasks and responsibilities. With college automation app, you can manage your course schedules, assignments, as well as track your grades and academic progress. You can also access campus news and events, communicate with your professors and peers, and stay up-to-date with important deadlines and announcements.

For faculty and staff, our app offers a range of features that help manage course materials, attendance, grading, and communication with students. Students and faculties can showcase their achievements and certificates to other potential users using the profile section. Users can apply various customization to make their profile unique. Profile section act as a flexible digital resume of the users. Our college automation app is user-friendly and intuitive, allowing for seamless integration into your daily routine. It is designed to help you save time, increase productivity, and improve the overall college experience. We are excited to bring this innovative solution to the education industry.

Objective:

The aim of this project is to develop a system to provide some features like enhancing communication, improving academic performance, Increasing engagement, placement management, Attendance and IA management.

Enhancing communication: Students may be able to communicate with professors, obtain study resources, turn in assignments, and get feedback through it. It may also make it possible for the administration to notify students, instructors, and staff of updates and alerts.

Improving academic performance: Students can access study materials, mock exams, and internet resources through a college automation app, which can help them perform better in class. Additionally, it can help professors keep an eye on students' development, offer them feedback, and provide them with individualised support.

Increasing engagement: Increase student engagement by providing a platform for social interaction, placement and other events. It can give students a feeling of belonging and community.

Placement management: A platform for handling campus placements, including job advertisements, student profiles and offer letters, should be provided through the app.

Attendance management: The software allows the organisation to monitor student attendance data, including noting absences and producing reports.

Methodology:

Requirement Gathering: Started understanding the specific needs and requirements of the college. This involves discussions with college administrators, faculty members, and other stakeholders to identify the key features and functionalities required in the app.

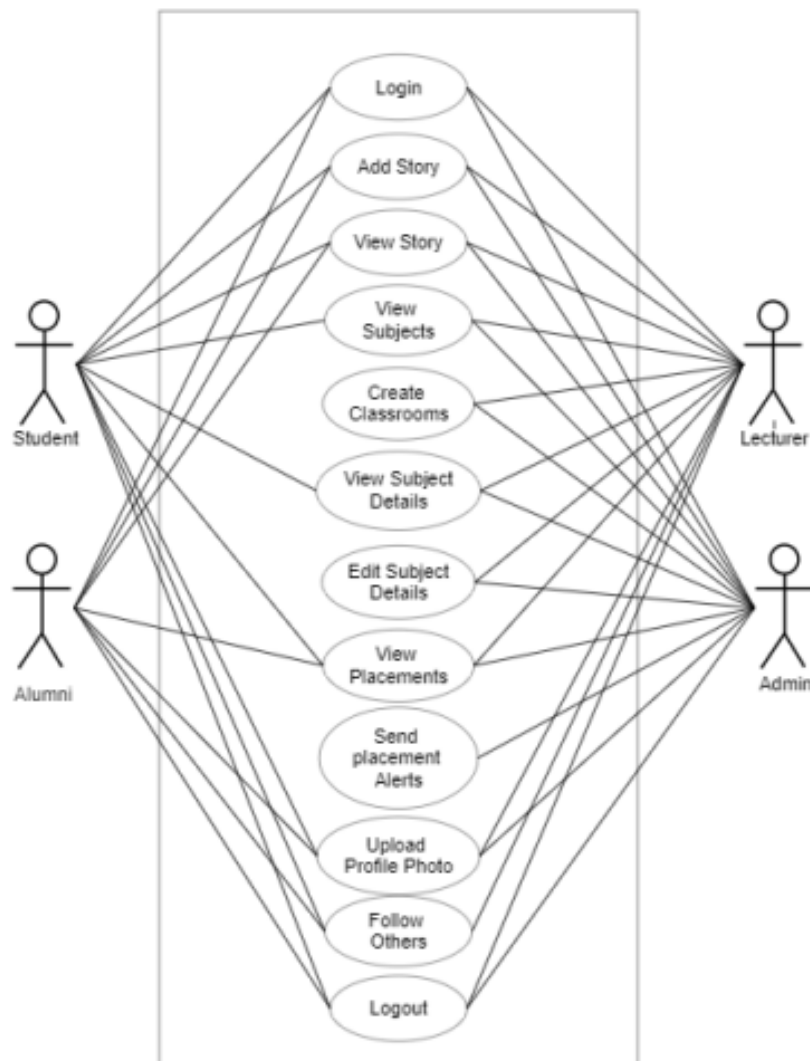
Planning and Design: Once the requirements are gathered, created a detailed plan for the app development process. This includes defining the app's architecture, data flow, user interface design, and technology stack selection. Consider the scalability, security, and usability aspects during the planning phase.

Backend Development: Begin by developing the backend of the application. This involves building the server-side components, such as the application logic, database

management, and integration with other systems.

Frontend Development: Proceed with the development of the user interface and client-side components of the app. Used technologies such as React native for a better user experience.

Figure shows the use case diagram of College Automation App, there are 4 kinds of actors, they are Admin, Lecturer, Student and Alumni. The use cases are login, add story, view story, view subjects, create classrooms, view subject details, edit subject details, view placements, send placement alerts, upload profile photo, follow others, logout



Conclusion:

The purpose of college automation app to give educational institute numerous benefits such as improved efficiency, increased output, better student performance, increased admissions, transparent and firm communications. College Automation App provide better teacher performance, Drastic reduction in manual tasks, Elimination of paper based tasks-enables paperless office, Makes the institute smart and ready for the future, Improved institute reputation and better resource utilization. By improving communication channels, and providing easy access to information and resources, such an app can significantly improve efficiency, productivity, and user experience for students, faculty, and staff. A well-designed and implemented college automation app has the potential to revolutionize the way colleges operate, fostering a more efficient, connected, and productive learning environment for all users involved.

Future Works:

There are several potential future works for college automation apps including incorporated with cutting- edge technologies like artificial intelligence, machine learning, and the internet of things to automate administrative processes, give students personalized learning experiences, and enhance decision-making. Integrating the college automation app with external systems such as online payment gateways, transportation management systems, and external databases can streamline processes and provide a unified experience for users.

