Requirements gathered to build a Student Event Management System

The development of a Student Event Management System is both practical and beneficial, and its feasibility can be examined from technical, economic, and legal perspectives.

From the technical point of view, the system can be implemented as a web-based application that is accessible on desktops, laptops, and mobile devices, ensuring ease of use for students and administrators alike. It would be compatible with commonly used operating systems such as Windows, macOS, Linux, Android, and iOS, and would rely on a centralized database like MySQL or PostgreSQL to securely store information about student profiles, event details, registrations, and feedback. Essential features would include secure user authentication with encrypted passwords, event creation and management modules, automated notifications through email or SMS, and analytics tools for organizers. Since the system is expected to serve a large student population, it must be scalable to support thousands of concurrent users while also providing reliable data backup and recovery mechanisms to avoid disruptions.

From an economic perspective, the system is financially viable because it can be developed using open-source technologies that reduce licensing costs. Backend development could be supported by platforms such as Node.js, Java, or Python, while frontend development can rely on frameworks like React or Angular, paired with free and robust database systems such as MySQL or PostgreSQL. Infrastructure costs would remain minimal if the system is hosted on institutional servers or affordable cloud services. By automating registration, communication, and reporting, the system would reduce dependence on manual paperwork and manpower, ultimately saving both time and resources. The return on investment is clear, as it improves efficiency, increases student participation through better accessibility, and ensures smooth coordination of events, which outweighs the initial setup costs.

From the legal perspective, the system must comply with relevant data protection and privacy laws, including India's Digital Personal Data Protection Act and the GDPR if international students are involved. Only necessary student information should be collected, and user consent must be obtained for storing and processing data. Strong security measures such as encryption are essential to protect sensitive information against unauthorized access or misuse. Intellectual property rights must also be respected when using event materials, logos, or multimedia, ensuring that no copyright laws are violated. Additionally, the system should meet institutional

accessibility standards so that it remains inclusive for students with disabilities.

Overall, the Student Event Management System is technically achievable, economically justifiable, and legally compliant, making it a feasible solution that enhances the organization and participation of student events while ensuring efficiency, cost-effectiveness, and data security.