Assignments serve as valuable tools for tracking the progress of both students and teachers. They allow students to apply and test their understanding, while enabling teachers to assess the effectiveness of their lessons. This project is designed to enhance collaboration and maintain academic integrity, teachers wield the ability to create assignments seamlessly while students navigate an efficient submission process. The cornerstone of this system lies in its robust plagiarism detection mechanism, powered by the Knuth-Morris-Pratt (KMP) algorithm. Beyond assignment creation and submission, the system introduces a collaborative element through teacher-created groups. Unlike conventional group systems, students are unable to independently establish groups, fostering a controlled and subject-specific environment where teachers can manage and facilitate focused discussions among students within their academic domain.

Our application includes an assignment tracker and plagiarism detection system functionality, driven by the KMP algorithm, which acts as a vigilant guardian, affirming the originality and academic honesty of student submissions .We have paid close attention to user privacy and security, implementing ceaser cipher

cryptography technique to ensure that their conversations remain private. By restricting students from forming groups independently, the system cultivates a structured and subject-focused space. This chat application is developed using MERN stack for database, routing, frontend and backend respectively and Socket.io for real time data communication. This project represents our commitment to enhance the intra-college communication in network.