

ABSTRACT

The proposed system smart seating arrangement is to address the existing challenges in Allocating Seating Arrangement to the Students. It presents an innovative approach to optimizing seating arrangements in exam halls using artificial intelligence (AI) strategies. The research focuses on developing algorithm using Constraint methodology to dynamically allocate seating layouts based on factors such as exam schedules, space constraints, and accessibility requirements. By leveraging constraint satisfaction Programming (CSP) algorithms and optimization techniques, the AI system aims to enhance efficiency, fairness, and security in exam administration. The implementation of smart seating strategies offers benefits such as increased efficiency, fairness, and enhanced security ultimately leading to improved exam experiences for students and administrators alike. To achieve this, the system utilizes intelligent algorithms that consider factors like student database, subjects, exam hall and time table. It intelligently assigns seats to ensure fairness and prevent cheating while respecting any specific constraints or preferences specified by the institution. The system also offers flexibility and adaptability. It can handle last-minute changes, such as student absences or new enrollments, and quickly generate revised seating arrangements. Additionally, the system has the feature for the students to find their exam hall by their register number.