**EXAM SEATING ARRANGEMENT PROJECT**

OBJECTIVES

The objective of the Exam Seating Arrangement Project is to develop a software application that automates the process of assigning seats for exams. This application should aim to:

* **Improve efficiency:**

Eliminate the manual effort and potential errors associated with traditional paper-based seating arrangements.

* **Ensure fairness:**

Assign seats randomly while adhering to predefined rules and constraints to prevent cheating or bias.

* **Optimize space utilization:**

Utilize available exam hall capacity effectively by strategically allocating seats based on student numbers and room layouts.

* **Accommodate student needs:**

Facilitate considering student requests for special seating arrangements (e.g., disability accommodations, students who need to be separated).

* **Enhance transparency:**

Provide a clear and transparent seat allocation process for students to access their assigned seats before the exam.

* **Generate reports:**

Generate reports on seating arrangements for administrative purposes, facilitating analysis of exam logistics and room utilization.

* **Scalability:**

Be designed to handle large numbers of students and exams efficiently.

* **Security:**

Ensure the confidentiality and integrity of student data by implementing appropriate security measures.

* **User-friendliness:**Offer a user-friendly interface for administrators to manage the system and for students to access their assigned seats.