

PP mini Project Readme

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1 User Interface

This Java program is designed for efficient seat allocation in various settings, such as classrooms, theaters, or events. It optimizes seat assignments based on user-defined criteria and provides an intuitive interface for easy customization. With this program, you can streamline the allocation process, ensuring the best seat assignments in any venue.

In this program, We are using the seat allotment system for a restaurant which has 4 types of seats:

- 2 seaters (20 seats)
- 4 seaters (20 seats)
- 6 seaters (20 seats)
- 8 seaters (20 seats)

It allows the customer to choose which type of seat he wants to book and then this program runs through a 2-dimensional array which contains the status of all the seats if they are empty or occupied. This 2-D array is always stored in a text file through the Input and Output Streams provided in java every time the status of the seats is changed, that is, a new customer comes or an old one leaves.

The text file is loaded again in the start of the program .

2 Admin Interface

This code also contains an admin interface for the staff and the owner for manipulating the status of the seats any time required.

This part of code can be used for the following purposes

- For initializing the seats to 0 (not occupied) at the start of a day
- For setting all the seats to occupied in case the restaurant is meant to be closed.
- To set a particular seat to not be booked as it may be out of order or not available for customers.

Thus, this program is very helpful in places for management of large no. of seats and is easy to save the status of the seats and change whenever required.