



UNIVERSITY OF CALOOCAN CITY
COMPUTER ENGINEERING DEPARTMENT



Data Structure and Algorithm

Laboratory Project

Progress Report 4

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PROGRESS REPORT

Date and Time Management

The application now Allows specifying exact room numbers or lab names, Priority queue Urgent or admin requests go first. Smart expiry Automatically removes past bookings. Dynamic room dropdown Auto-fills based on selected room type. Auto Excel sync Keeps Excel file always updated. Scalable design Easier to extend and maintain for a real system.

Priority queue

the code now includes a priority queue for those users that need it quickly like the professors and teacher students.

Smart expiry

the program will automatically close the dates that expired already

Auto Excel sync

The program will now automatically sync the current data on the excel for receipt and hard copy of the data

Scalable design

The entire UI can now adjust the size.

Summary of Additions

- Room detail support Allows specifying exact room numbers or lab names. Validation: Time conflict detection
- Priority queue Urgent or admin requests go first.
- Auto Excel sync Keeps Excel file always updated.
- Smart expiry Automatically removes past bookings.
- Scalable design Easier to extend and maintain for a real system.

INPUT AND OUTPUT

