



UNIVERSITY OF CALOOCAN CITY
COMPUTER ENGINEERING DEPARTMENT



Data Structure and Algorithm

Laboratory Project

Progress Report 1

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PROGRESS REPORT

Our group brainstormed new ideas for an application where we could apply the knowledge we've gained in Data Structures and Algorithms (DSA), such as using arrays, queues, linked lists, or singly linked lists.

After careful consideration, we decided to create an application that tracks classroom availability, and we named it **Classroom Reservation**.

OBJECTIVE

To create a program that implements a queue using an array or a singly linked list, allowing users to add (enqueue) words to the queue.

DISCUSSION

Since a new batch of first-year students will be joining next year, we anticipate a shortage of classrooms that could cause scheduling delays if not properly addressed. Therefore, we have decided to create an application that tracks classroom usage and availability in real-time.

MATERIALS AND EQUIPMENT

We will use Python for developing the application due to its simplicity, versatility, and strong support for database management and user interfaces.