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**A Report on**

**COMP 202: Data Structures and Algorithms**

**Mini Project**

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**Task:**  Implement a queue using a circularly linked list with the following operations: • enqueue – Inserts an element at the end of the queue

• dequeue – Displays and deletes an element from the front of the queue

• rear – Displays the last element of the queue • front – Displays the first element of the queue

• isEmpty – Returns true if the queue is empty and false otherwise

• isFull – Returns true if the queue is full and false otherwise

What are the time complexities of these operations in your implementation? You are supposed to use the linked list implementation done in Lab 2.