OPERATING SYSTEM

FLIGHT TICKET BOOKING SYSTEM

ROUND-ROBIN & SHORTEST REMAINING TIME FIRST

PROJECT REPORT PRESENTATION

OUR TEAM

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INTRODUCTION

Project: Automated Flight Ticket Booking System

Objective: Optimize the flight ticket booking process and ensure efficient resource allocation

System's Purpose: Handle online customers' flight ticket bookings

Implementation: Java programming

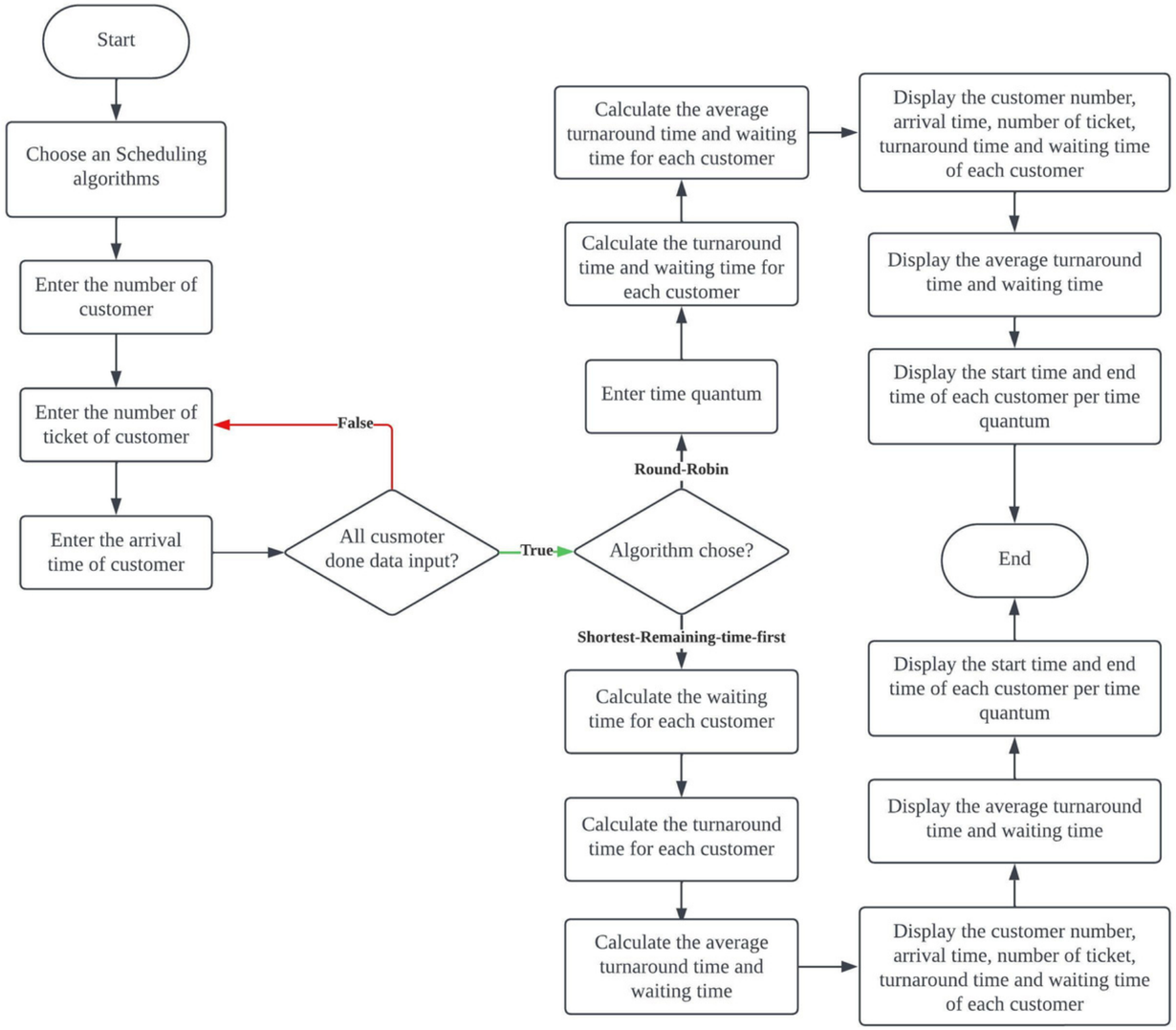
TWO ALGORITHMS

Round-Robin

RR scheduling ensures fair access to system resources by assigning each process a fixed time quantum.

Shortest Remaining Time First

SRTF optimizes resource allocation by considering the remaining burst time of processes, enhancing system responsiveness.



SYSTEM FLOWCHART

- Algorithm selection is the very first thing of this system
- Basic data input is prioritized for the later calculation
- The system flow would be different based on the scheduling algorithm chosen by the user

SYSTEM DEMONSTRATION

CONCLUSION

1 CHALLENGES FACED

Identifying suitable real-world applications for scheduling techniques
Translating algorithms into practical applications (Round Robin and SRT)
Handling time quantum in Round Robin and managing remaining burst time in SRT
Debugging and testing code for accurate task scheduling and completion

2 BENEFITS AND EXPERIENCES

Deepened understanding of preemptive scheduling algorithms
Designing system flowcharts and translating them into implementations
Improved teamwork, communication, and coordination skills

3 OVERALL IMPACT

Expanded knowledge, practical skills, and experiences for academic and professional growth.