

Elevator Operating System README

Scheduling Algorithm

My elevator system uses the First-Come, First-Served algorithm. Using this model the elevator requests are processed in the order they are received, even if it's complex.

The way it works/ Implementation

The way I did it was that requests are managed using a queue structure and then the request each of them includes a different person ID, a start floor, and a destination floor. Then the schedule function processes each request by picking which elevator is the best suited to complete the request because of availability and location.

The Reason for picking FCFS

The reason I picked this algorithm is because to me it's simple and just easier for me to implement into my program. This algorithm to me makes it that all requests are treated equally and preventing request

delays and for this good for things like a building and an elevator request just like in real life

The reason why I chose this over other algorithms was just because this one was the most easy one for me to understand based off of other previous assignments. I didn't struggle running this when I was implementing it. I struggled implementing some of the other algorithms in class but FCFS just came easy to me so I chose it over the others.

Improvements

Probably efficiency adjustments to make the program run faster and probably run the round robin algorithm since the professor said it would be better I just like FCFS better and understood that one more and liked it better but it probably would have reduced wait times that probably what I would have done but overall this project was challenging and interesting.