2023 Challenge Puzzle: Product Management

Consider a building with two elevators connected to a single controller unit. When a user presses a button, which elevator should be sent to the user’s floor and how should various changes to the situation (a button being pressed while the elevator is en-route to a floor etc) be handled?

This question is aimed at testing the candidate’s structured thinking skills. Please explain in not more than one page how you would design the logic behind these elevators’ behaviour (bonus points for discussing how this logic would be different if the controller unit was chasing an energy conservation objective rather than an efficient transportation objective).