Independent Elevator Simulation Projects

You need to submit code as well as project Report Detailing the following:

1. Problem description: (at least 3 carts; at least 30 floors)
   - Research about feasible parameters (how fast can a cart move, stop, accelerate,
   - etc.), capacity, etc., performance metrics
   - Any "undo" function?
2. Your "unique" design features, if any.
3. How many threads should be used? What is the role each thread?
4. Simulation, data analysis, and optimization.
5. Collecting data and visualizing them use any third party visualization tools, JavaScript or directly on console.
6. Readme file.

Grading criteria: Complexity, completeness, robustness, how realistic, and how you use various language features