Airport Operation Simulation

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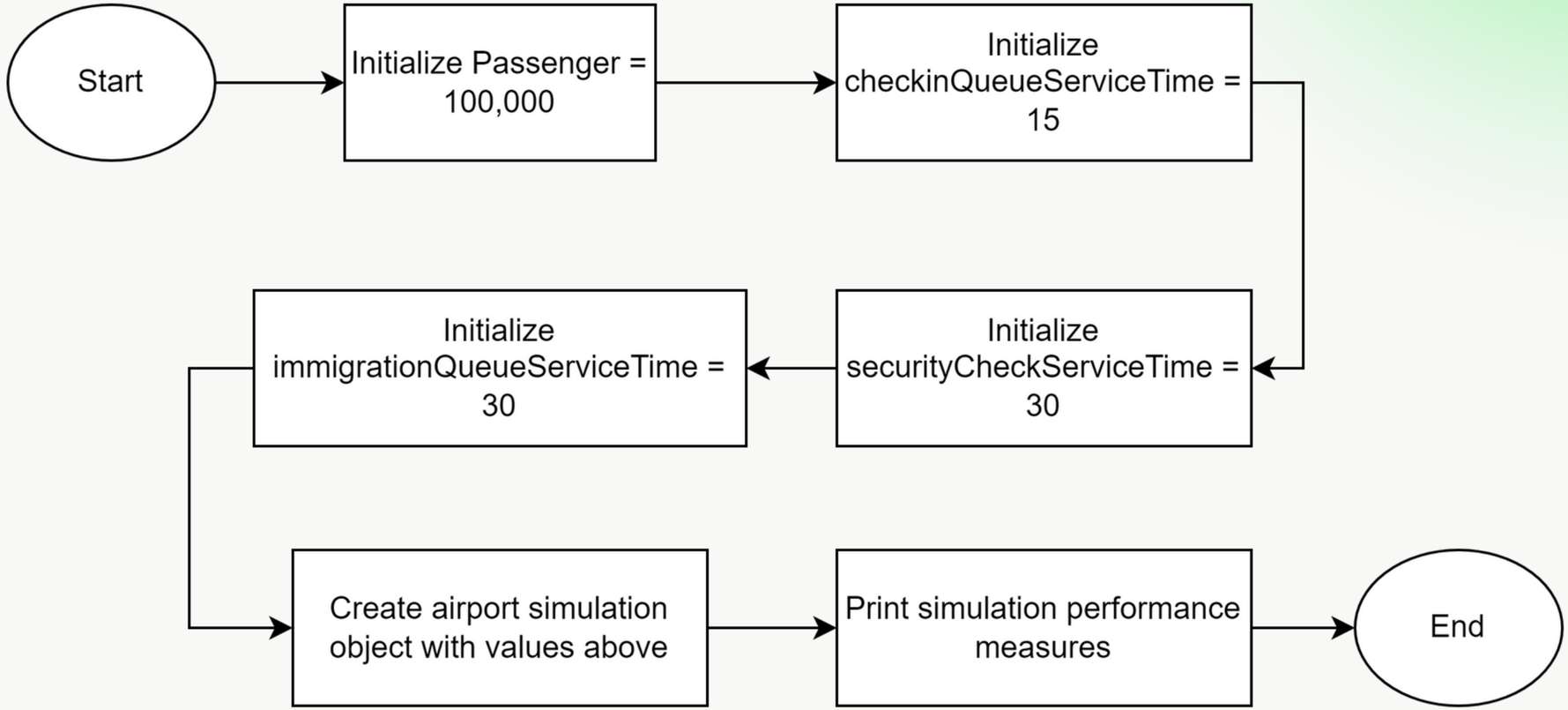
Objectives

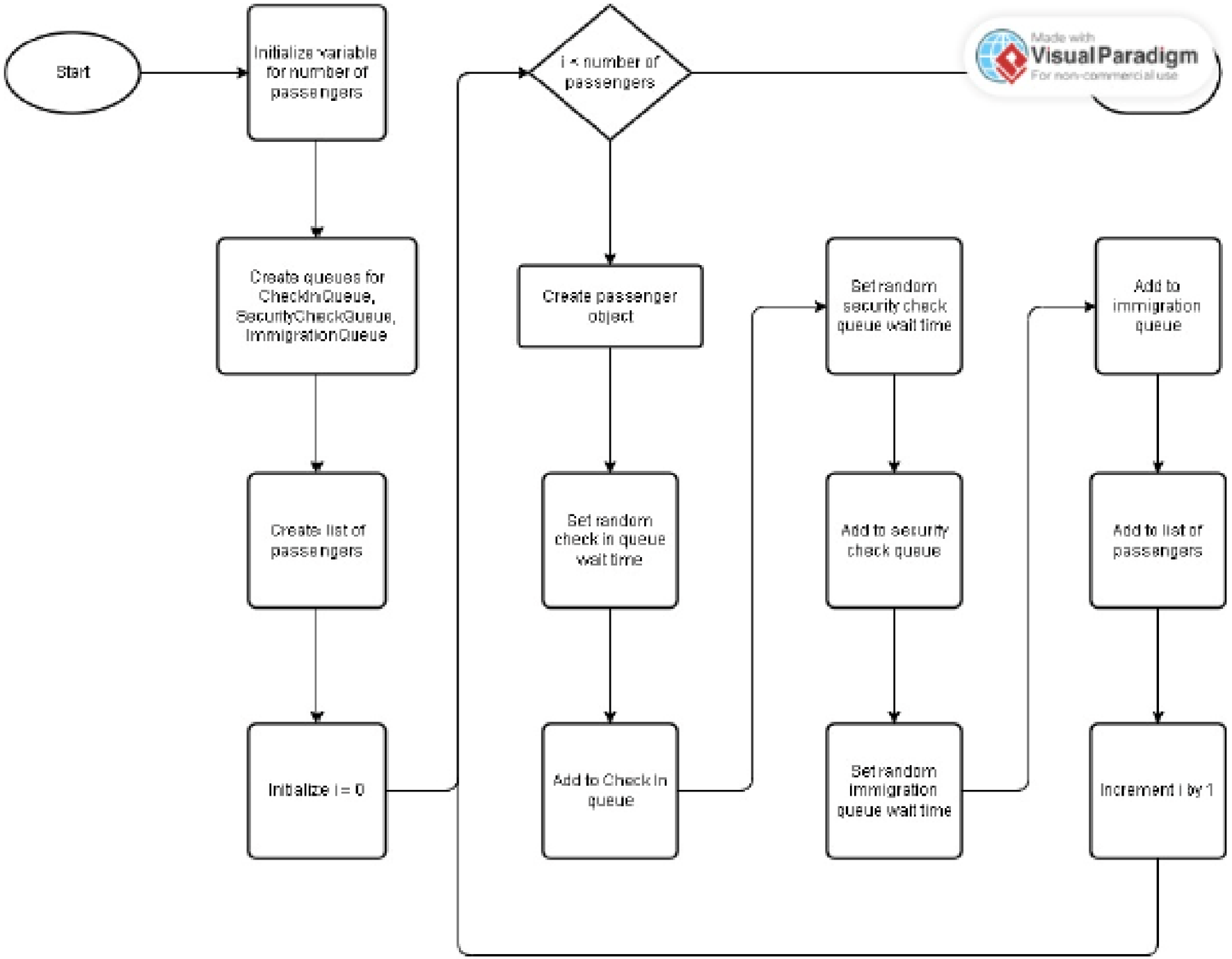
1.
Passengers should go through the procedures which take place after the passenger enters the airport.
2.
To simulate the procedures as close to reality as possible in terms of its flow and behavior.
3.
To identify any areas which maybe improved after testing out the simulation.

Flowchart

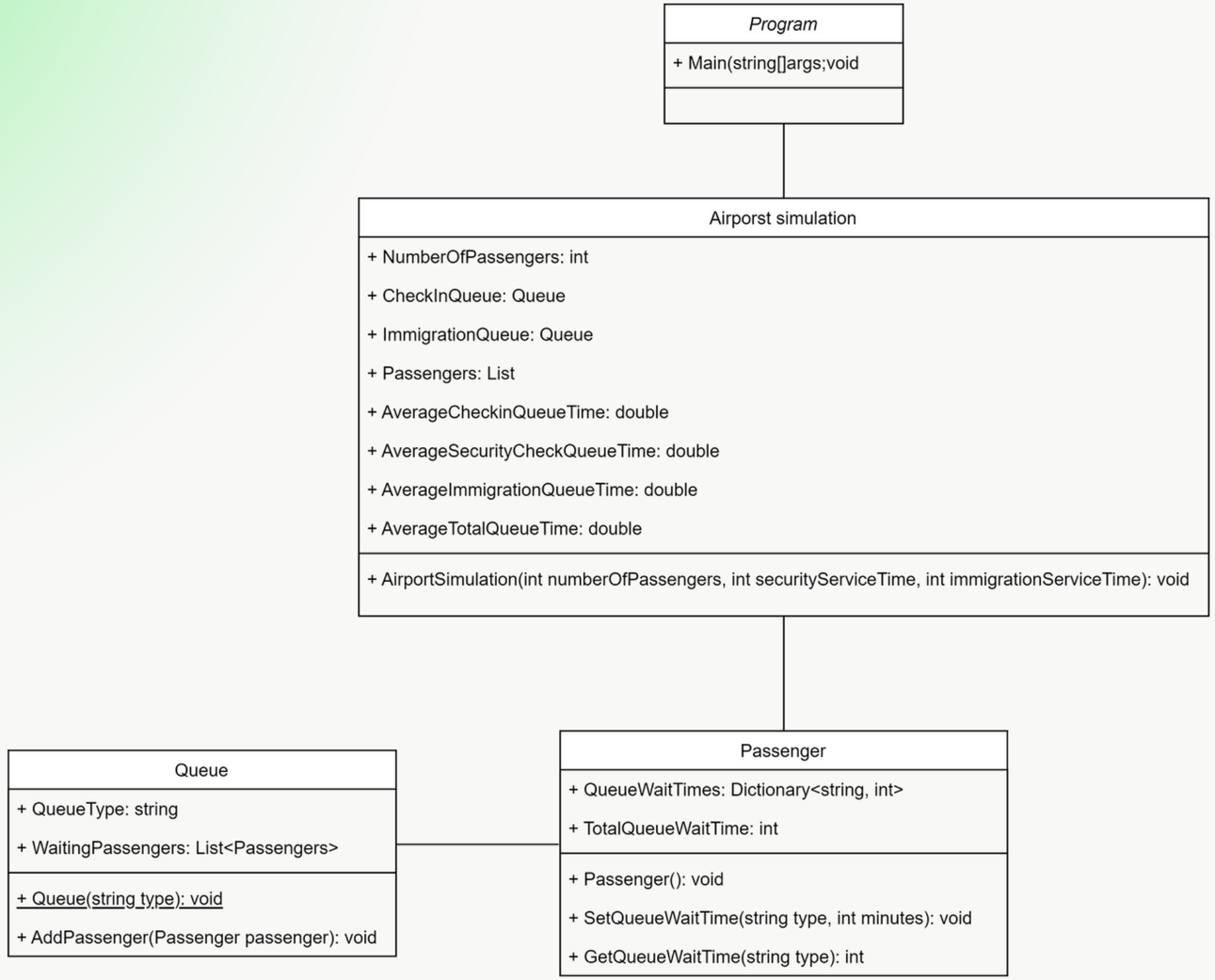
Program flowchart



Simulation Flowchart



UML Class Diagram



Code Review

Demo

Improvements

1. Smart Queue Tech: Introduce smart systems using sensors and data to adjust security lane openings in real-time based on passenger flow. This ensures efficient resource use, minimizing wait times.
2. Pre-Check & Biometrics: Implement pre-check procedures and biometric tech (facial recognition, fingerprints) to speed up security checks. Passengers submit info beforehand, expediting the process and enhancing overall security.
3. Mobile Apps & Kiosks: Promote mobile check-in, self-service kiosks, and mobile boarding passes. This reduces reliance on traditional counters, making check-in and boarding quicker for passengers while optimizing staff resources.

Thank You