Drone Simulation System



Contents

- Project Overview
- New Features!
- Design Choices
- Demo

Drone Robot

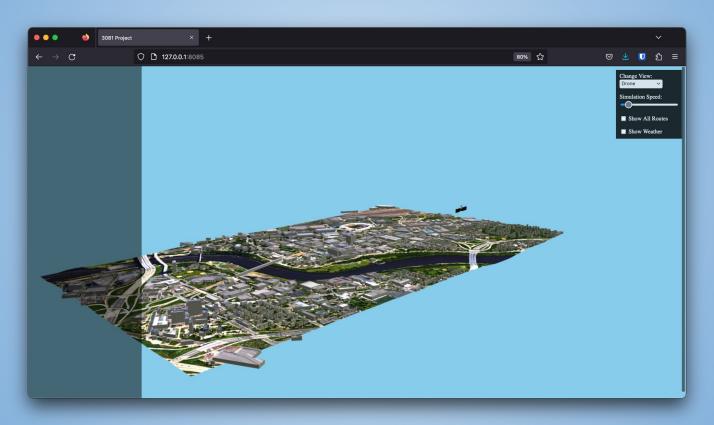




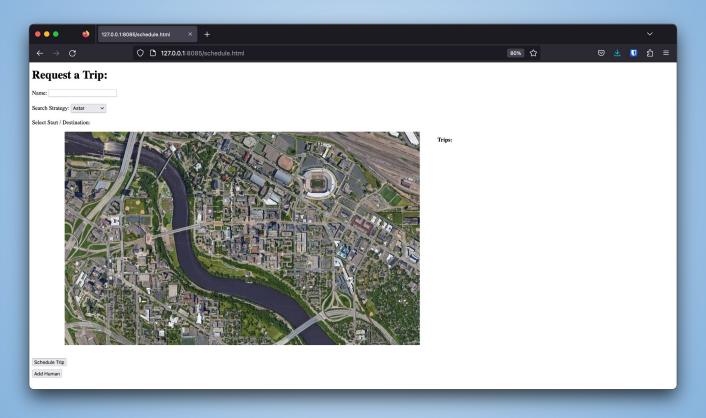
UMN Campus



Simulation Page



Scheduling Page



B Line Movement



Path Movement (AStar, DFS, Dijkstra)

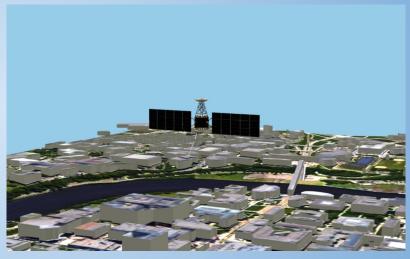


Miscellaneous





Satellite



Weather - Singleton













Why?

- Simulating real-life scenarios
 - > Time Delay
 - > Events
- Adaptability

Notifications - Observer

Weather: Default
Dronce: Picking up the robot '1'
Dronce: Picking up the robot '1'
Dronce: Delivering the robot '1'
Dronce: Delivering the robot '1'
Weather: Heavy Snow!
Dronce: Delivering the robot '1'
Weather: Tomado Warning!
Weather: Heavy Snow!
Dronce: Picking up the robot '2'
Dronce: Picking up the robot '2'
Weather: Blazing Hot '2'
Weather: Harricane Warning!
Weather: Hurricane Warning!
Weather: Tomado Warning!
Tornado: Ersoel Human-OO \$\frac{1}{2}\$
Weather: Tomado Warning!



Why?

- User Experience
 - > Visual Communication
 - > Organization
- Safety Feature

Demo