

# Drone Simulation System



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- Project Overview
- New Features!
- Design Choices
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Drone



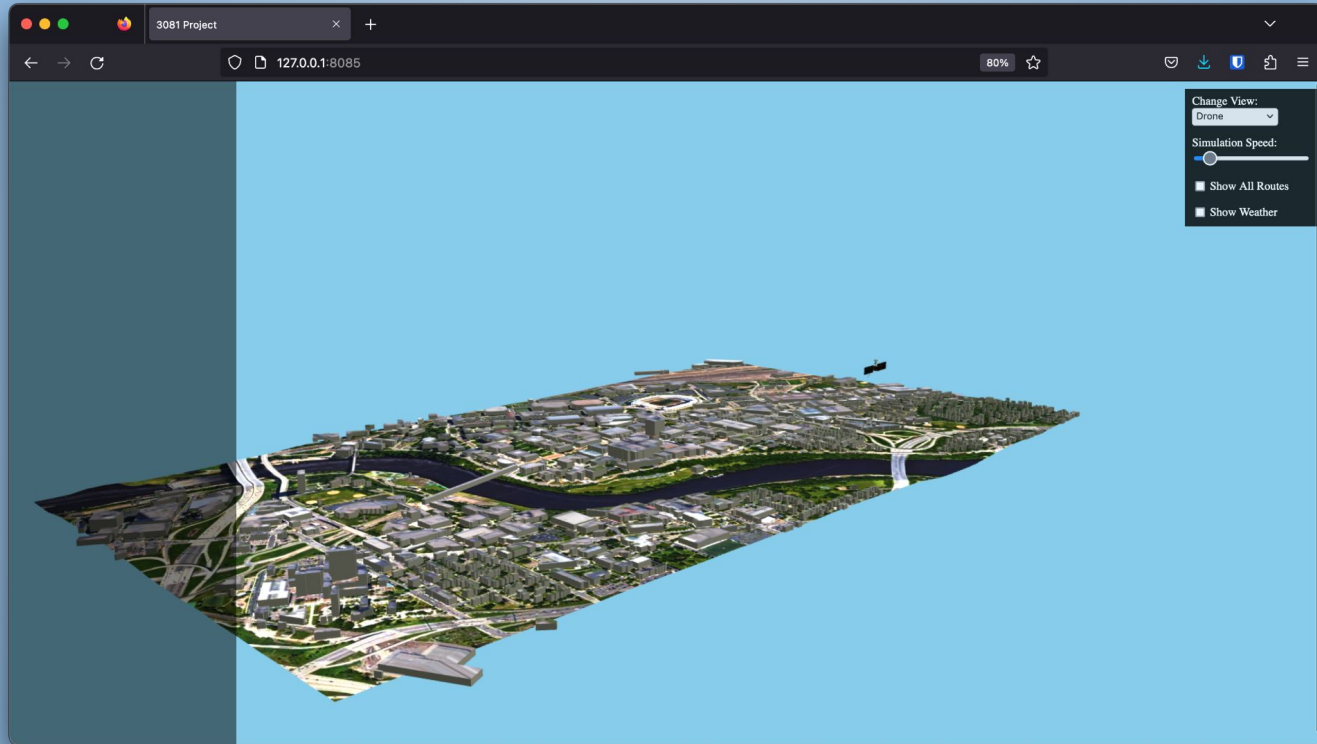
Robot



# UMN Campus

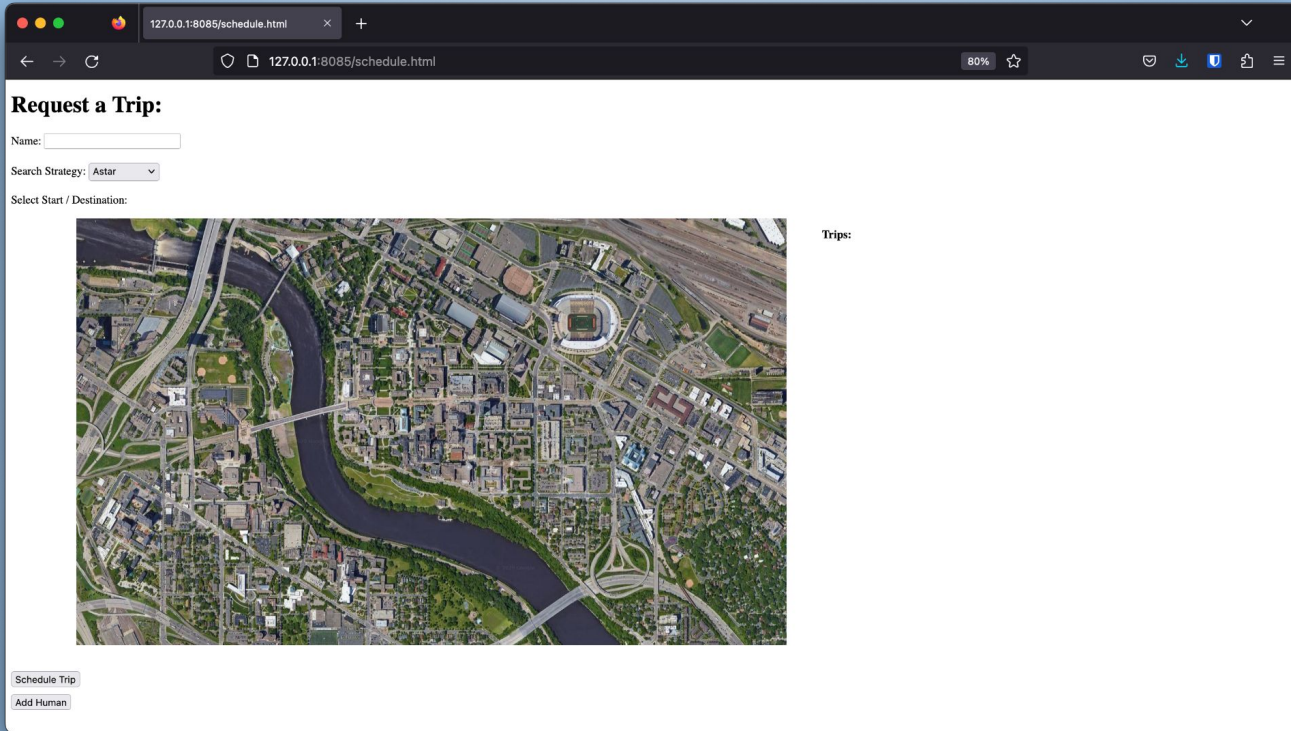


# Simulation Page

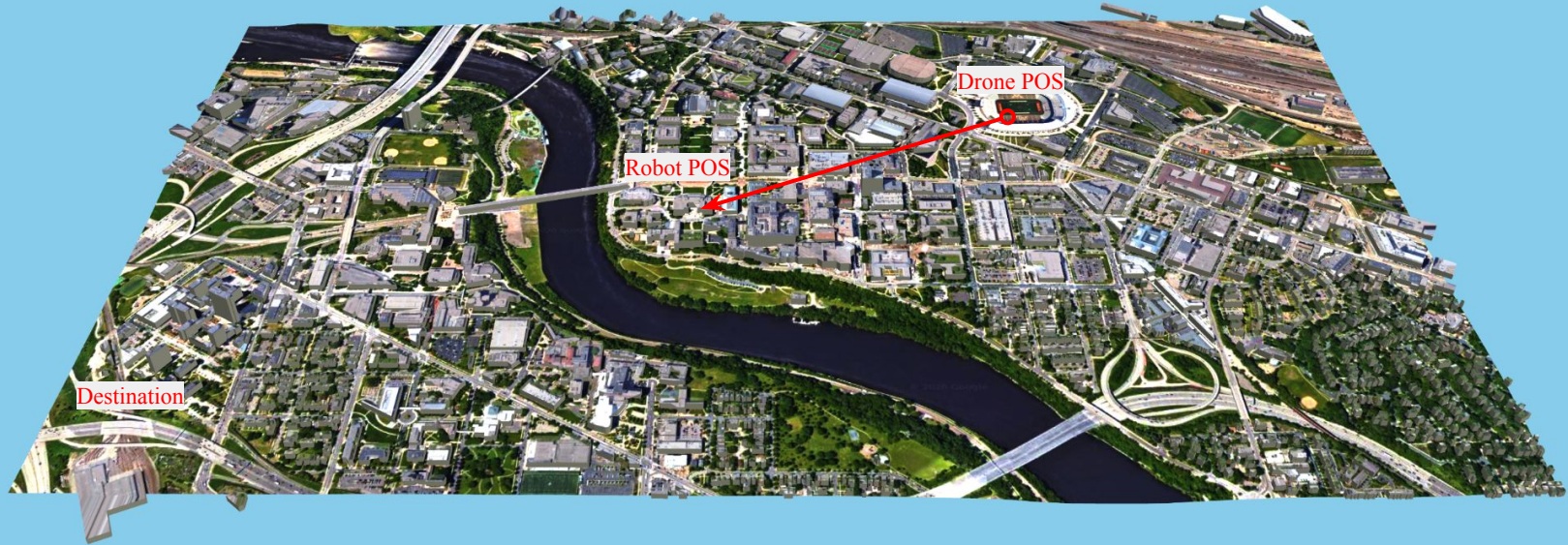




# Scheduling Page



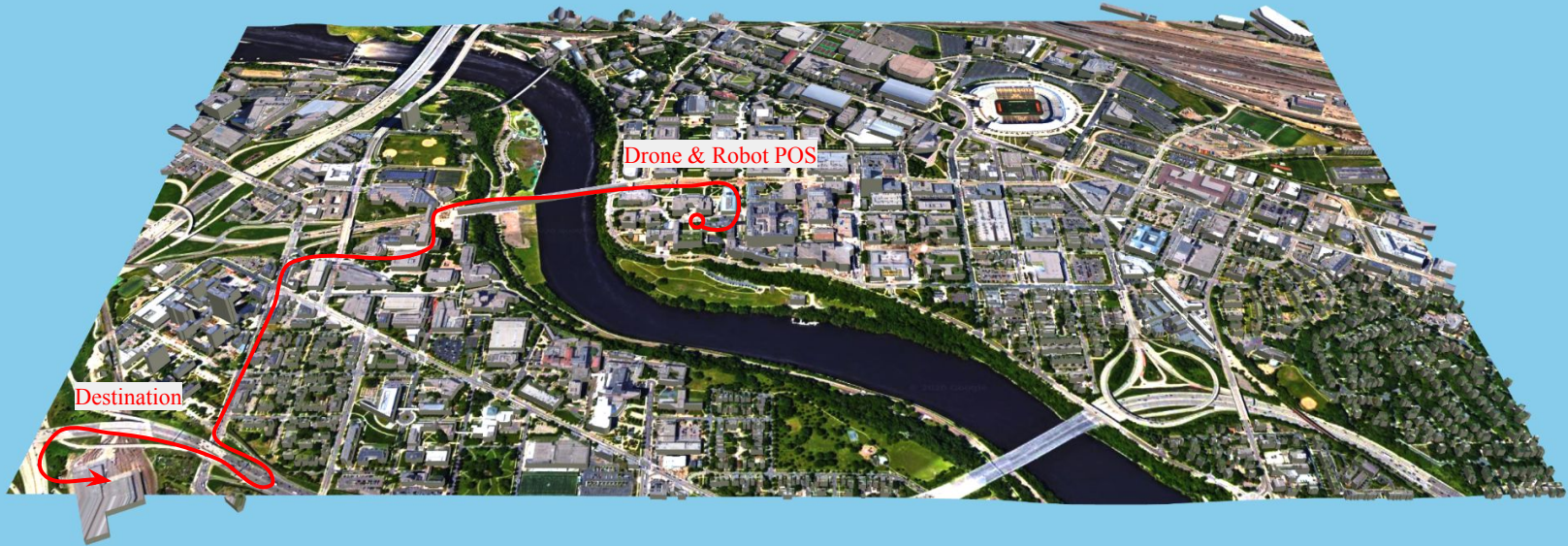
# B Line Movement





# Path Movement (AStar, DFS, Dijkstra)

\* Inaccurate Depiction \*



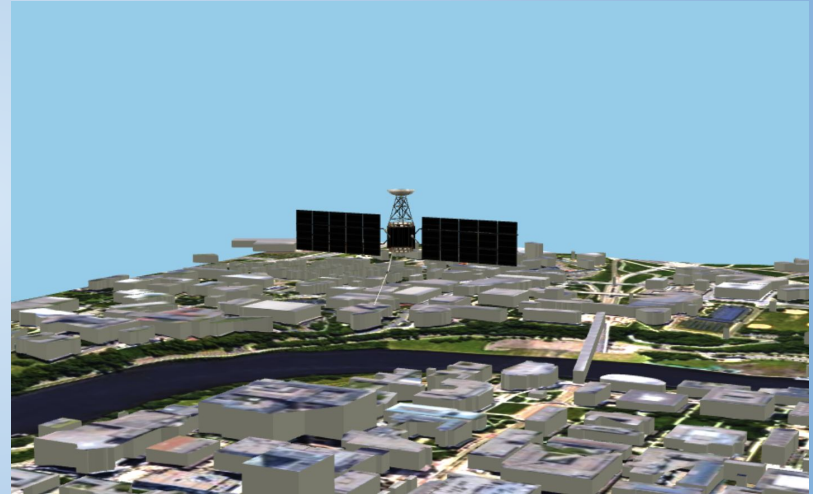


# Miscellaneous

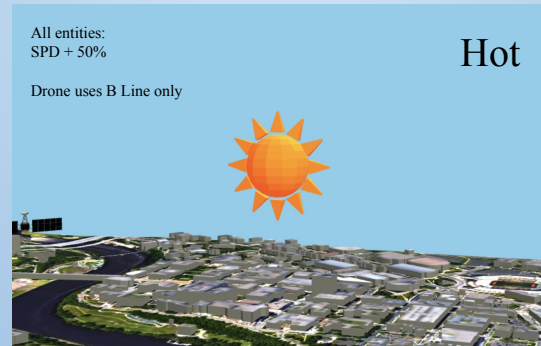
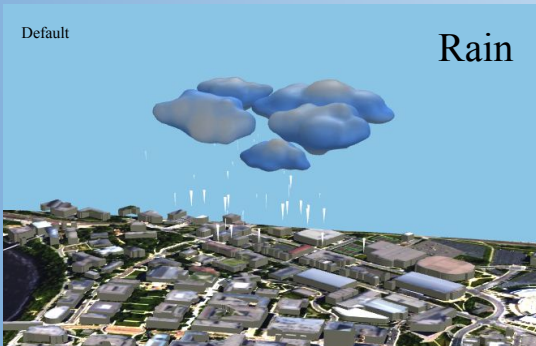
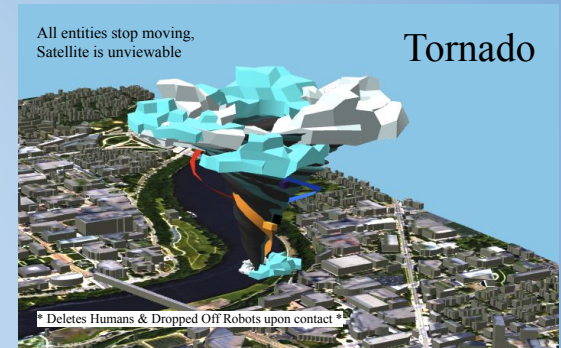
Human



Satellite



# Weather - Singleton



# Why?

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

# Notifications - Observer





# Why?

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

Demo