

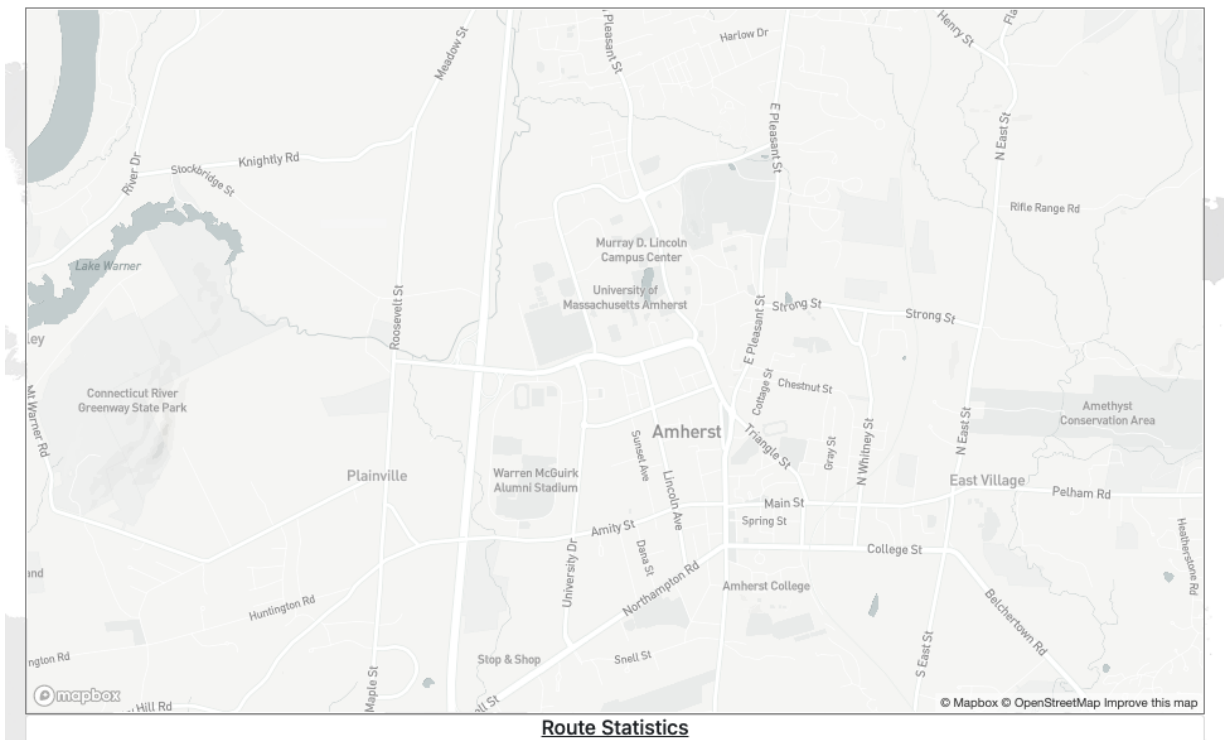
520 Final Project EleNa: Elevation-based Navigation

Group: RedCoders

UI test cases

1. Sanity check on launching
 - a. Map is displayed

EleNa: Elevation-based Navigation system



- b. Text boxes are empty, Elevation and algorithm are set to default.

Input

Please fill the following fields:

Origin:

Destination:

Path Limit:

Min/Max Elevation

☒ Minimize Elevation

☐ Maximize Elevation

Algorithm

☒ A* Algorithm

☐ Dijkstra Algorithm

- c. Location/Coordinates and route statistics are empty.

Location Details

Latitude:

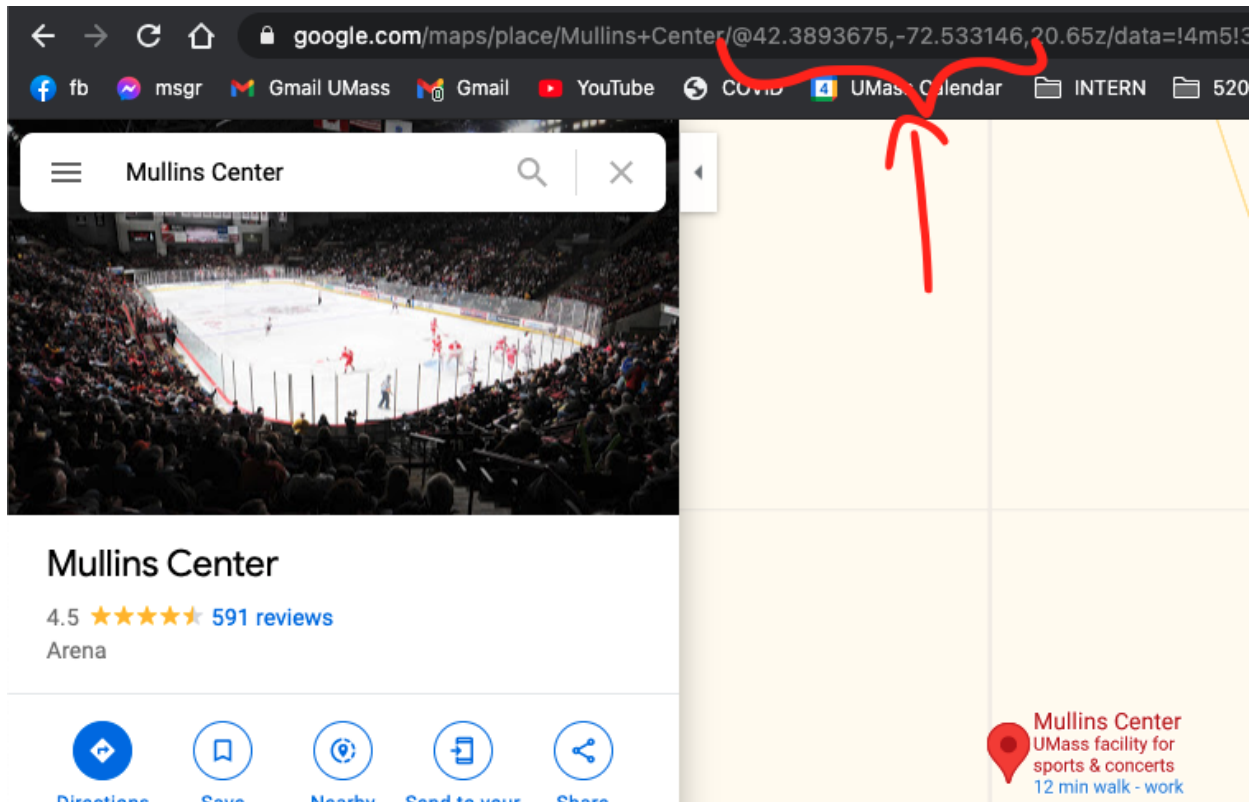
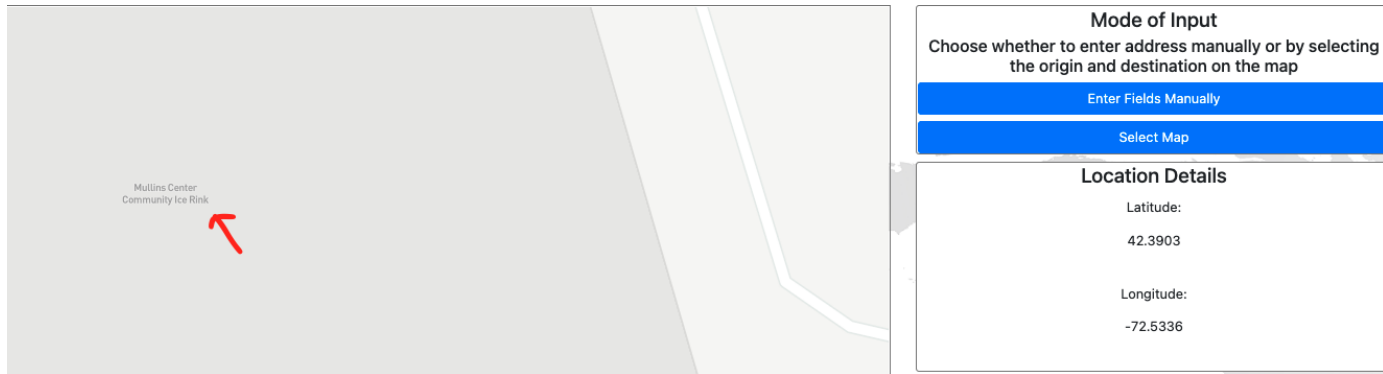
Longitude:

Coordinates

Origin:

Destination:

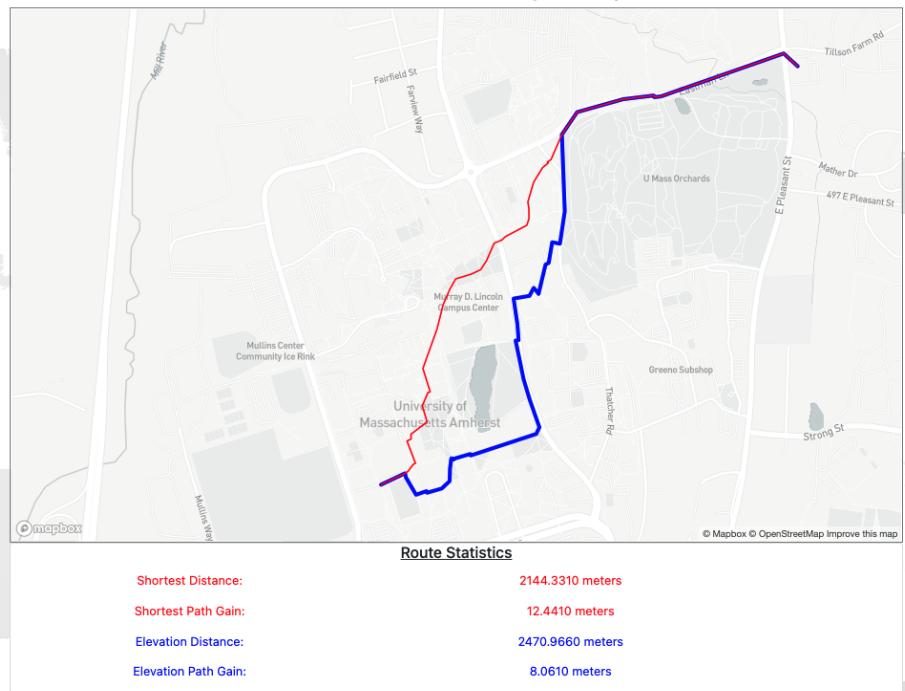
2. Test if we get correct coordinates when pinning origin and destination, by comparing the coordinates with the ones we find on Google Maps



3. Test if text to address on map works.

EleNa: Elevation-based Navigation system

| Input | |
|-----------------------------------|-------------------------|
| Please fill the following fields: | |
| Origin: | UMass Police Department |
| Destination: | UMass Amherst |
| Path Limit: | 30 |
| Min/Max Elevation | |
| <input checked="" type="radio"/> | Minimize Elevation |
| <input type="radio"/> | Maximize Elevation |
| Algorithm | |
| <input checked="" type="radio"/> | A* Algorithm |
| <input type="radio"/> | Dijkstra Algorithm |
| Reset Fields | |
| Submit Values | |



4. The shortest path and route statistics are displayed when we hit submit. We compare it with google maps.

EleNa: Elevation-based Navigation system

Input

Please fill the following fields:

Origin:

UMass Police Department

Destination:

UMass Amherst

Path Limit:

30

Min/Max Elevation

Minimize Elevation

Maximize Elevation

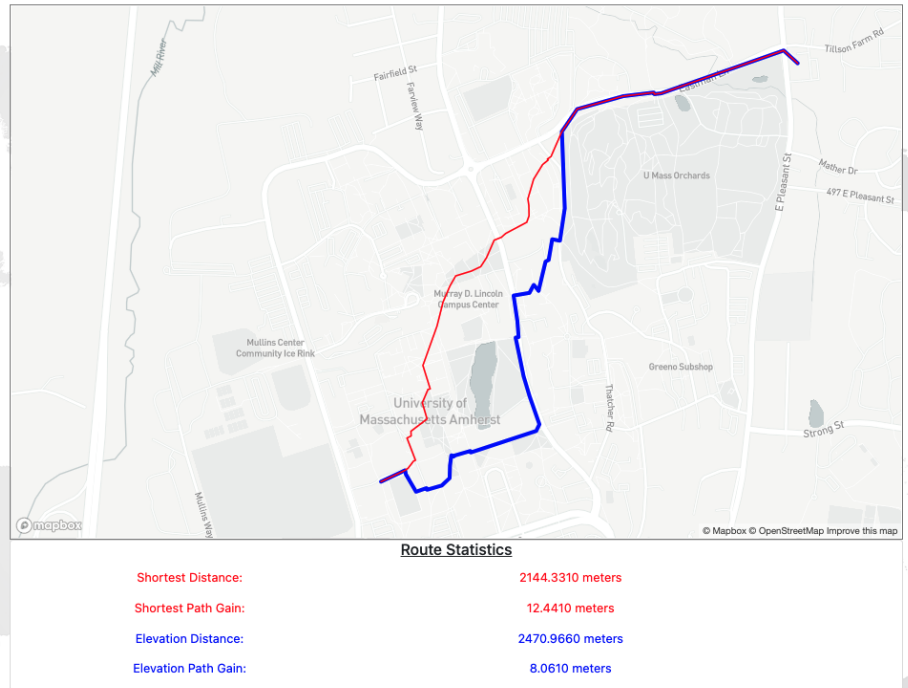
Algorithm

A* Algorithm

Dijkstra Algorithm

Reset Fields

Submit Values



University of Massachusetts Police Department

University of Massachusetts Amherst

Add destination

Leave now

OPTIONS

Send directions to your phone

4:19 PM–4:32 PM

13 min

via Eastman Ln

27 min

1.4 miles

3:57 PM–4:25 PM

28 min

