**PROJECT TITLE:** Shortest Optimal Route Pathfinding

**A SHORT DESCRIPTION OF THE PROJECT:** The project aims to develop a pathfinding algorithm that calculates the shortest optimal route between two given places on a map. It utilizes graph theory and algorithms to find the most efficient path, considering factors such as distance, time, or any other relevant metrics.

**INPUT OF THE PROJECT:**

1. Source Location: The starting point on the map.
2. Destination Location: The endpoint on the map.

**OUTPUT OF THE PROJECT:** The output of the project is the shortest path between the source and destination locations. This path can be represented as a sequence of waypoints or a set of coordinates that form the optimal route.

**USE CASE OF THE PROJECT:** One potential use case for this project is in the field of emergency services, specifically for ambulances. By utilizing the shortest optimal pathfinding algorithm, ambulances can determine the most efficient route to reach hospitals quickly. This can help save crucial time in emergency situations, allowing patients to receive timely medical attention and potentially saving lives. Additionally, this pathfinding algorithm can be applied to various other scenarios where finding the shortest route is important, such as logistics, transportation, and navigation applications.

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