Abstract

This project aims to develop a comprehensive solution for trip planning using advanced algorithms and web technologies. The system leverages multi-criteria decision-making (MCDM) techniques to help users select the best places to visit from a list of options.

The user begins by providing their current location and a list of places they wish to visit. The system then retrieves detailed information about these places from a Places API, including ratings, reviews, distance from the current location, and popularity

Using this information, the system applies Multi-criteria decision-making (MCDM) algorithms to evaluate the options based on multiple criteria, such as ratings, distance, and popularity, to determine the optimal sequence of places to visit. The chosen places are then connected on a map, and a route is planned to minimize travel time and distance.

The map visualization is powered by Folium, a Python library that integrates with Leaflet.js for interactive mapping.

Overall, this project demonstrates the practical application of Multi-criteria decision-making (MCDM) in trip planning, providing users with a user-friendly and efficient tool for organizing their travel itineraries.