**Project Overview**

**Purpose**

The primary purpose of this software project is to develop an innovative road trip planner that adapts to user preferences dynamically. This tool aims to enhance the road trip planning experience by considering the changing interests of users as they progress through their journey. This tool will schedule user's travel plan day by day.

**Goals and Objectives**

Dynamic Preference Adjustment:

Implement a system that dynamically alters attraction preferences based on a user's visiting history, ensuring a diverse and engaging travel experience.

Realistic Trip Planning:

Create a planner that segments road trips into daily itineraries, considering maximum travel days and driving hours as specified by the user.

Path Search Algorithm:

Use neural network to calculate the initial weight of each node based on the user-selected data set

**Problem Statement**

Traditional road trip planners often lack the ability to adapt to changing user preferences during the journey. This limitation can lead to repetitive and less engaging travel itineraries. Our software aims to address this gap by introducing weights derived from neural network training and dynamic preference adjustments, making road trips more varied and tailored to the evolving interests of travelers.

**Scope and Objectives**

**Project Scope**

The contents of the neural network need to be modified so that it can be suitable for route planning.

Need to write an algorithm for dynamically allocating preferences.

Need to write an algorithm for travel day by day planner.

**Limitations and Constraints**

Time Limit: Two Weeks.

Technologies: We will use python to for development.