Project Stardust Overview

Welcome to Project Stardust! Our primary goal is to help users find the cheapest routes for purchasing food and drinks while minimizing car movement and time loss. In an era where prices are rising, Project Stardust aims to provide a simple, user-friendly app that navigates you to the most affordable stores and brings you back home efficiently, saving both time and money.

**Key Objectives:**

1. Cost Savings: Help users save money by identifying the cheapest stores for their shopping needs.
2. Time Efficiency: Optimize shopping routes to minimize travel time and reduce unnecessary car usage.
3. User-Friendly Experience: Create an intuitive and straightforward app that is easy to use for all demographics.

**Project scope:**

1. **Route Optimization**:

* Optimize shopping routes to help users find the best stores within their budget.
* Minimize travel time and car usage by identifying the most efficient paths.
* Consider user preferences and constraints, such as maximum travel distance or preferred stores.

1. **Real-Time Pricing Updates**:

* Integrate with store APIs or other data sources to fetch the latest prices of products.
* Provide users with up-to-date information to make informed shopping decisions.
* Ensure data accuracy and reliability, with frequent updates as prices change.

1. **Historical Price Analysis**:

* Offer insights into the price trends of products over the past year.
* Allow users to compare current prices with historical data to identify deals or price hikes.
* Provide visualizations or charts to easily understand price fluctuations.

1. **Recommended Shopping List**:

* Analyze users' past purchases to identify frequently bought items.
* Generate personalized shopping lists based on users' preferences and shopping history.
* Include recommendations for items that are on sale or have favorable price trends.

1. **User Preferences and Customization**

* Allow users to set preferences for specific store chains, product brands, or dietary needs.
* Include options for users to prioritize factors such as price, distance, or product availability.

1. **Target Audience:**

* Budget-conscious individuals and families looking to maximize their savings.
* Students and young professionals seeking cost-effective shopping solutions.
* Eco-conscious users interested in minimizing their carbon footprint.

1. **Technology Overview:**

* Integration with GPS and mapping services for accurate route optimization.
* API connections to fetch real-time pricing data from various retailers.