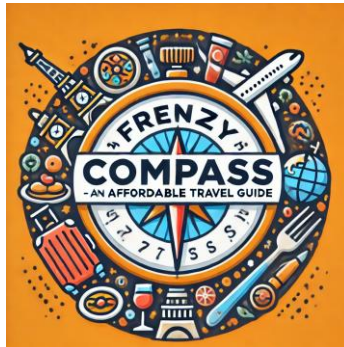# BAX – 422 - Project Proposal

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Frenzy Compass – An Affordable Travel Guide

The Frenzy Compass – An Affordable Travel Guide is a software that will help students efficiently plan their day out by suggesting them nearby activities, restaurants, and essential services based on their budget and locality when they are new to a city.

Using **Google Maps API** and **Python**, our software will provide real-time location-based recommendations and optimizes travel time. Users can easily find affordable dining, attractions, and amenities within a specific distance.

To build this software we utilize several Google Maps APIs to enhance student experience:

1. **Google Maps API**: Powers interactive maps for location viewing and route planning.
2. **JavaScript Map API**: Embeds dynamic maps on the web interface for user interaction.
3. **Geocoding API**: Converts addresses into geographic coordinates for precise location search.
4. **Places API**: Finds nearby places like restaurants and attractions, filtered by user preferences.
5. **Geolocation API**: Detects the user's current location for personalized recommendations.

Major Business challenges and solutions that this software will address to assist students.

1. Finding Budget-Friendly Dining and Activities

Business Problem:

International students like us who have just come to a new city often struggle to find affordable dining and to do activities in a new city.

Solution:

The software solution will suggest nearby restaurants and activities based on the student's budget using Google Places API and Geolocation API, filtering options by price, rating etc.

2. Optimizing Travel Time

Business Problem:

Students usually waste time traveling between distant attractions when they arrive in a new city, usually during the days when they have no classes.

Solution:

Using our software which utilises Google Map API we will calculate the best suitable itinerary for an individual based on the selected activities, saving time by considering real-time traffic data.

3. Essential Services

Business Problem:

Students usually need quick access to services like groceries etc to meet their daily needs but are unaware where they can find one especially in the initial days when they arrive in a new city.

Solution:

The software uses Google Places API to find essential services nearby, ensuring easy access to essential services while traveling.