Title : SpartanRide

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Description: SpartanRide is a carpooling and ride-sharing platform designed specifically for UNCG students, faculty, and staff. The system aims to provide a convenient, reliable, and sustainable transportation solution for the UNCG community.

Overview: SpartanRide will allow users to create profiles, view available rides, subscribe to rides, and write reviews. Drivers will be able to create profiles, offer rides, and view passenger statistics. The system administrator will manage user access, moderate rides, and reviews.

Our users will have 24/7 access to a social platform that lets them find and save rides that they may want to look into based on a preview shown on a ride card.

Drivers (provider) will create cards for rides.

Users (customer) will scroll through a deck of cards based on their ride preferences. They will be able to subscribe to rides and add reviews for each ride they took.

SysAdmins can monitor posts, they will be able to flag and delete ride cards, as well as reviews and comments.

User Roles:
- Customer (Rider): Create profile, view available rides, subscribe to rides, write reviews
- Provider (Driver): Create profile, offer rides, view passenger statistics
- SysAdmin: Manage user access, moderate rides, reviews

System Features:
- User registration and profile management
- Ride posting and subscription
- Review and rating system
- Passenger statistics for drivers
- User access management and moderation for SysAdmins

API Integration:

SpartanRide will utilize the Google Maps API to access location-based data and services, providing users with accurate and efficient ride matching.

Technical Requirements:

- RESTful API written in Java
- MySQL database for persistent data storage
- User interface built with HTML and CSS
- Google Maps API integration for location-based services

Goals:
- Provide a convenient and reliable transportation solution for the UNCG community
- Reduce carbon footprint and promote sustainable transportation
- Foster a sense of community among UNCG students, faculty, and staff through ride-sharing and carpooling.

Google Maps API : *https://developers.google.com/maps/documentation*