Alpha Presentation

VW Car-Net Electric Vehicle Route Planner

The Capstone Experience

Team Volkswagen

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Project Overview

• Designed to educate the consumer on the usability of electric vehicles in everyday life.

• By use of this application users will see:
  ▪ Minimal to no daily route change
  ▪ Long range trips possible
  ▪ Comparison information between EV and gas-powered vehicles
System Architecture

Development Environment
- Android Studio
- Android SDK
- Kotlin
- XML

Cloud Services
- Google API's
  - Elevation
  - Places
  - Directions
  - Maps
- Other API's
  - EV Charging Stations
  - Open Weather

Application
- Google Play

User
Basic Route With Recharging
Route With Different Charge Threshold
Routes Diverge to Charge
Route With No Recharge
What’s left to do?

• Implement all sliders into range calculation.
• Add more information to comparison view.
• All charging stations along route functionality.
• Improve accuracy of comparison cost values.
Questions?