From Students…
…to Professionals

Alpha Presentation
Crowd-Sourced EV Emergency Recharge

The Capstone Experience

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Project Overview

• Mobile application aiming to assist electric vehicle owners when they run out of charge
• Stranded drivers can submit a request for assistance, which will be sent to nearby users
• Users can earn money by responding to assistance requests
• The goal of the app is to bring peace of mind to owners of electric vehicles
System Architecture

Application Back End
- Android
- Java
- iOS
- Swift

Application Front End
- React Native
- JS

Cloud Components
- Firebase Cloud Functions
- Firebase Cloud Messaging
- Firebase Authentication
- Firebase Firestore
- Firebase Realtime Database

User
Help Center
Submit a Request
Offer Assistance

Samantha is requesting assistance

Samantha is driving a 2021 Mustang Mach-E and needs 12% charge to reach their destination.

Select your vehicle:

- 2021 Escape SE Hybrid 87%
  Estimated charge duration: 20m
  Estimated charge after providing assistance: 70%

Enter an amount to charge:

$ 50

Offer Assistance

Cancel

Samantha is requesting assistance

Samantha is driving a 2021 Mustang Mach-E and needs 12% charge to reach their destination.

Select your vehicle:

- 2021 Escape SE Hybrid 87%
  Estimated charge duration: 20m
  Estimated charge after providing assistance: 70%

Enter an amount to charge:

$ 50

Offer Assistance

Cancel
Map View
What’s left to do?

• Implement chat feature
• Implement call feature
• Populate UI using database
• Connect features together
• Pass data between screens
• Implement transaction abilities
Questions?