

MICHIGAN STATE

U N I V E R S I T Y

Alpha Presentation

Ford Smart Park App

The Capstone Experience

Team Ford

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*From Students...
...to Professionals*

Project Overview

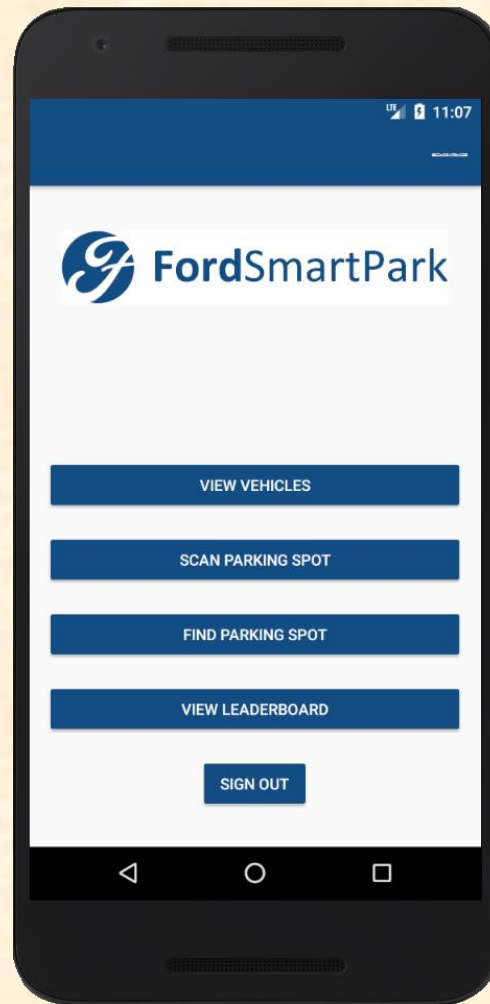
- Functionalities
 - Flag open parking spots by answering questions
 - View nearby open parking spots
 - Utilize AR to view Ford vehicle models
- Features
 - Support Android mobile devices
 - Add and view owned vehicles
 - Provide reward incentives
 - Leaderboard
- Technologies
 - Android Studio (Java)
 - Google Tango (Lenovo Phab 2 Pro)
 - Firebase
 - Sync 3 Emulator & TDK



System Architecture



Main Menu



Identify Spot

7:00

What is the status of the spot?

Occupied

Available

What is the size of the parking spot?

Regular

Compact

If you are in a parking garage, what is the max height? (If not, enter 0)

_____ Feet

_____ Inches

SUBMIT

AR Parking



What's left to do?

- Link GPS navigation to parking spot
 - Display parking spots based on location
- Integrate Google Tango within the app
 - Display a list of the user's vehicles
- Finish up Area Learning of AR
- Integrate app with Sync 3
- Improve UI
- Etc



Questions?

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