Beta Presentation
Volkswagen Shopping App with Augmented Reality

The Capstone Experience

Team Volkswagen
Bryce Cooperkawa
Nahom Ghebredngh
Rikito Takai
Swathi Thippireddy
Richard Zhou

Department of Computer Science and Engineering
Michigan State University
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Project Overview

• Volkswagen Group of America, Inc. – U.S. subsidiary of Volkswagen Group
• One of the world’s top automakers - Europe’s largest
• AR app to streamline the car buying process
  ▪ Empowers users to envision a VW vehicle at home and on the go
  ▪ Personalize vehicles with customization options to be saved and viewed later
• Realistic models that fit in any environment
  ▪ Photo/video capture
  ▪ Share with friends and family
System Architecture

SDKs
- ARKit
- RealityKit
- SceneKit

IDE/Languages
- Xcode
- Swift

User

SDKs

IDE/Languages

AWS
- RDS
- MySQL

API
- AWS Lambda

Admin

Panel

S3 Bucket
Selection View
Interior View
Customization View
Car Display View
What’s left to do?

• Stretch Goals
  ▪ Color customization with color wheel
  ▪ Filter cars and accessories
  ▪ Add more accessories/accessory types
  ▪ Face ID login
  ▪ Smoother movement of model preview

• Other Tasks
  ▪ Improve app/admin panel UI
  ▪ Bug fixes
Questions?