MICHIGAN STATE
U N I V E R S I T Y

Alpha Presentation
VW Car-Net Smart Hub Web App

The Capstone Experience

Team Volkswagen

Jason Hakim
Bryce Archer
Jonathan Fleck
Zhiheng Fan
Anjali Munasinghe

Department of Computer Science and Engineering
Michigan State University
Fall 2019

From Students…
…to Professionals
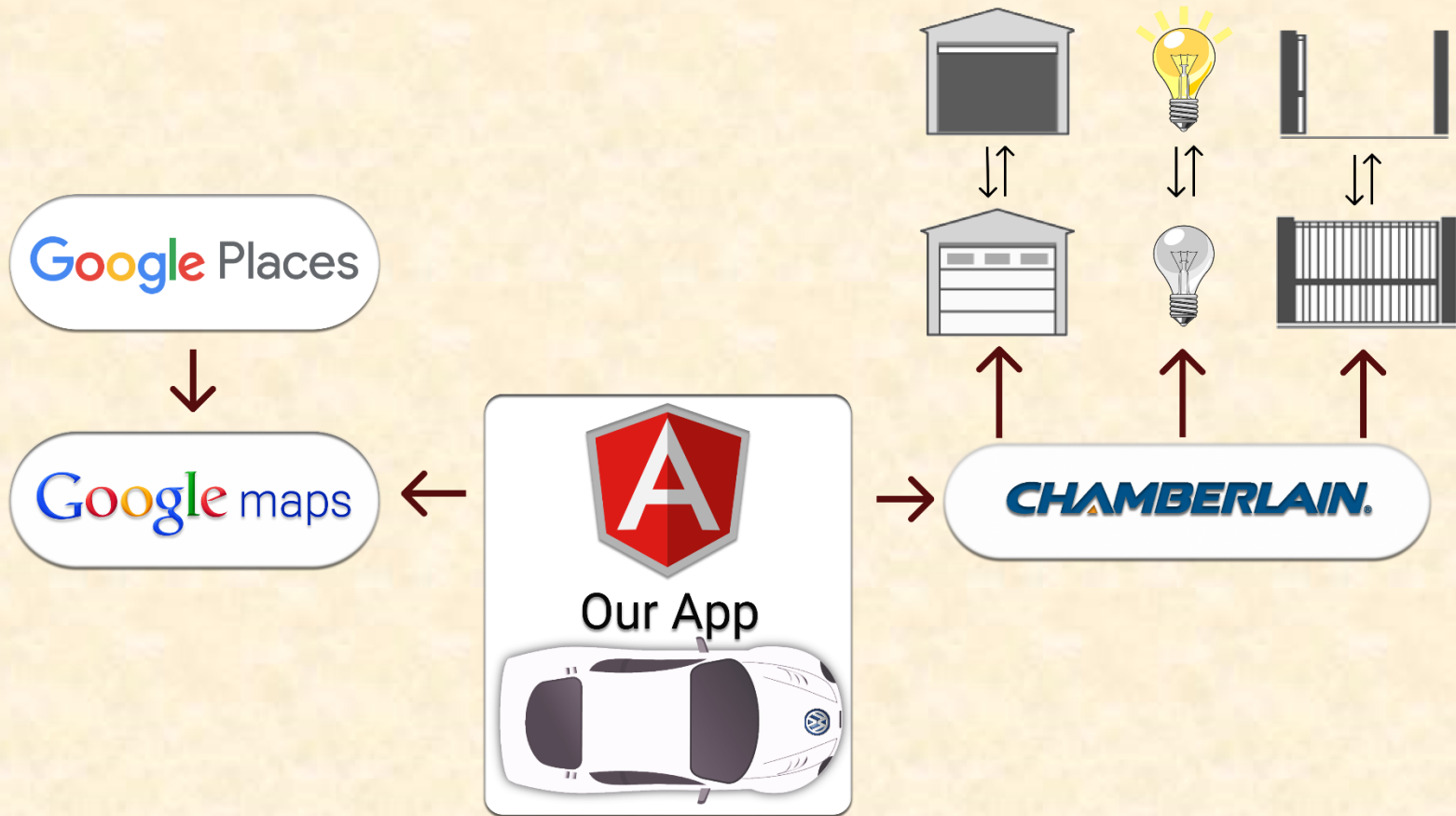
Project Overview

- Web application used in Volkswagen vehicle's infotainment unit

- Connect Chamberlain account to Volkswagen Smart Hub to link devices to vehicle

- View the status and manually toggle Chamberlain devices with the click of a button

- Set up boundary-based triggers to automatically toggle devices with vehicle

System Architecture

What's left to do?

- Authentication feature – sign into Chamberlain account to acquire device list

- Styling the app – make sure everything looks pretty and is road-safe

- Add option to enable/disable entire boundary system

- Account for nuances/edge cases regarding the boundary system

- Push notifications related to devices within the vehicle

Questions?