

MICHIGAN STATE

UNIVERSITY

Beta Presentation

Automotive Service Advisor AI Assistant

The Capstone Experience

Team Urban Science

John Harris
Owen Miller
Omar Osman
Srujan Patil
Joshua VanBynen
Travis Wright

Department of Computer Science and Engineering
Michigan State University

Spring 2025



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

Project Overview

- Mobile application to help automotive service advisors
- Using vehicle service data to recommend services
- Personalized sales approach using customer demographics



Team Member's Technical Tasks

Technical Tasks Assigned

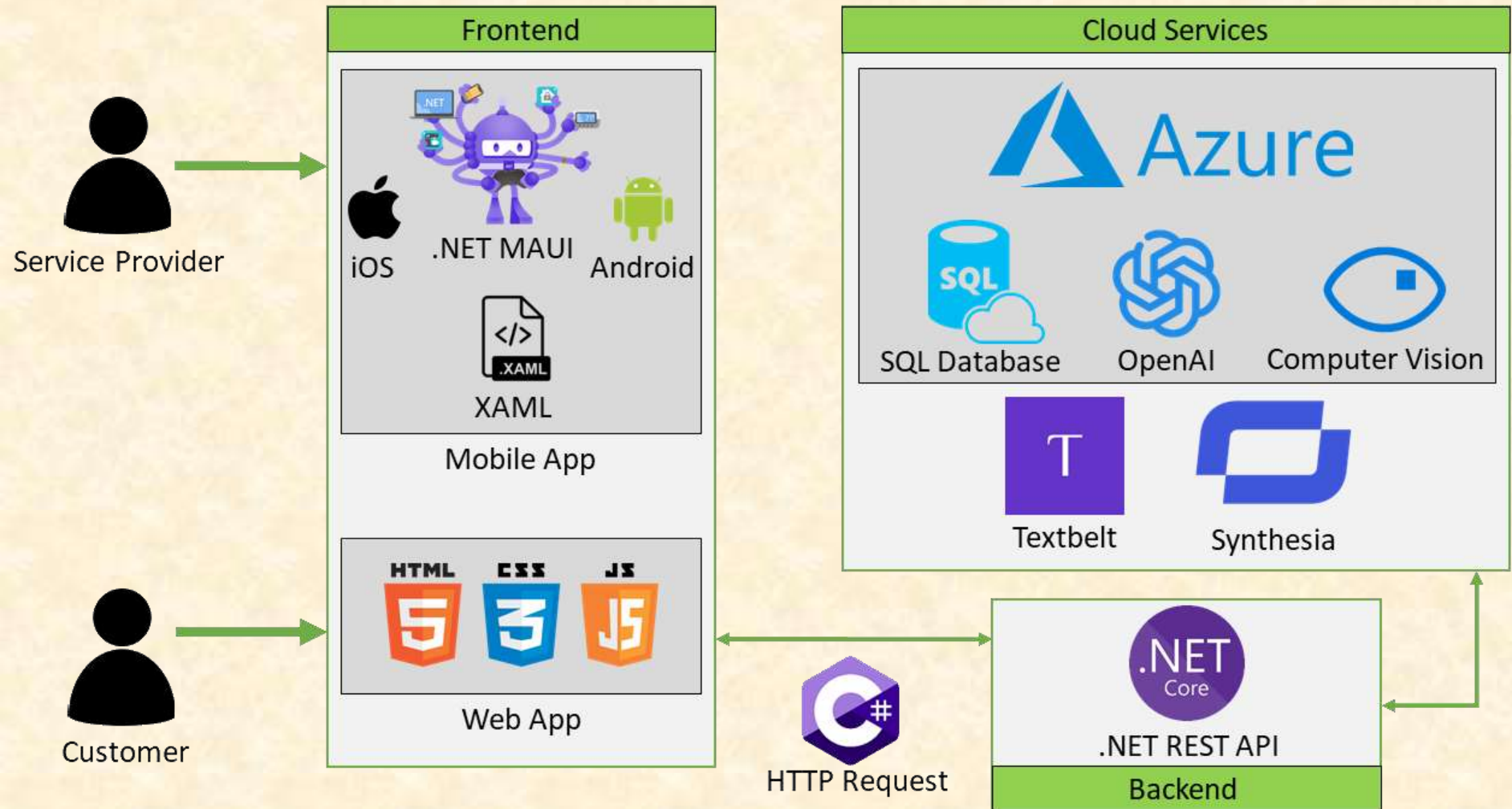
- John Harris
 - Recommending services
 - SMS sending
 - UI flow
- Owen Miller
 - Closed loop discount calculations
 - Customer information page pulling from database
 - VIN/Mileage camera capturing
- Omar Osman
 - LLM script generation
 - Creating customer demographic data profile
 - Customer selection website
- Srujan Patil
 - Synthesia video integration
 - Mileage scanner bounding boxes
 - Web socket connection to the backend
- Joshua VanBynen
 - Customer cart implementation
 - Adding services to cart list
 - Database setup
- Travis Wright
 - Developed dashboard page
 - Designed UI
 - Camera features

Technical Tasks Completed

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 - SMS sending
 - UI flow
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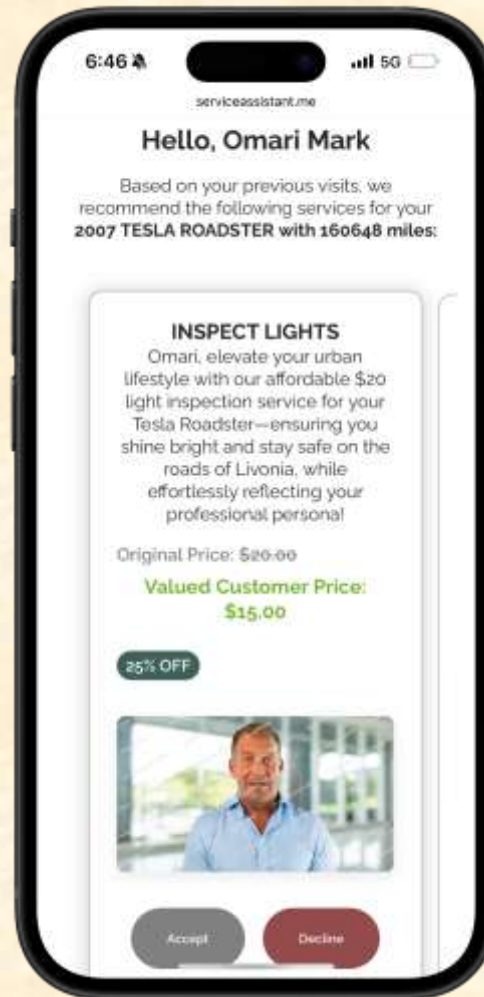
System Architecture



VIN Scanning



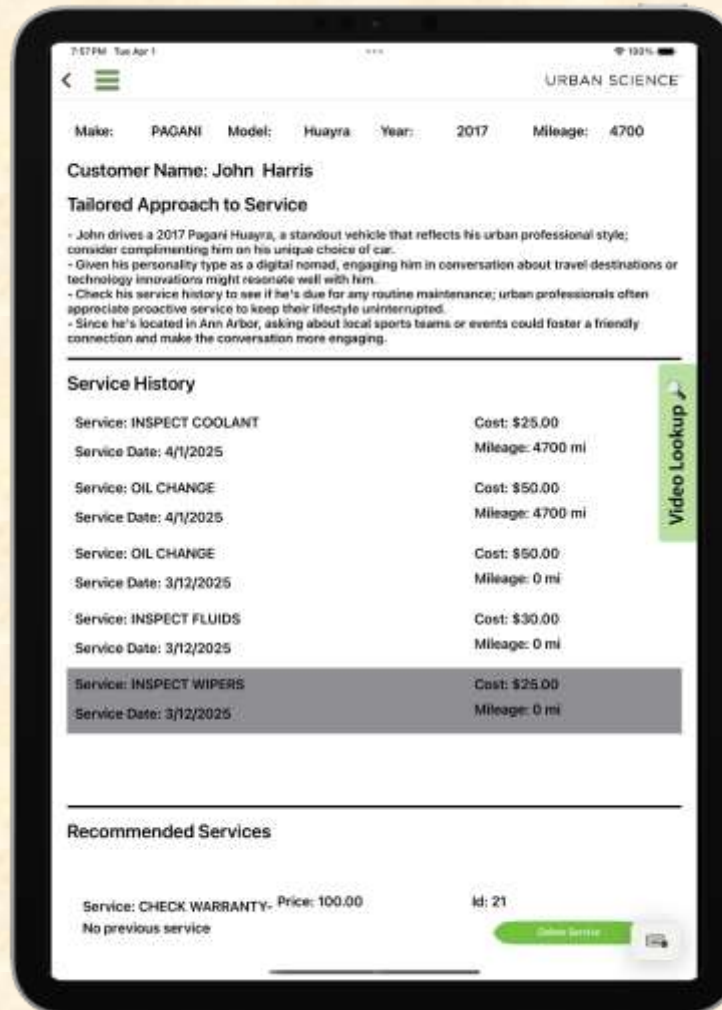
Web App



Dashboard



Tailored Approach



What's left to do?

- Features
- Stretch Goals
 - Video editing
- Other Tasks
 - UI changes
 - Bug fixes



Questions?

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