MICHIGAN STATE
UNIVERSITY

Beta Presentation
Spatial IoT Control Using Apple Vision Pro

The Capstone Experience

Team Launch

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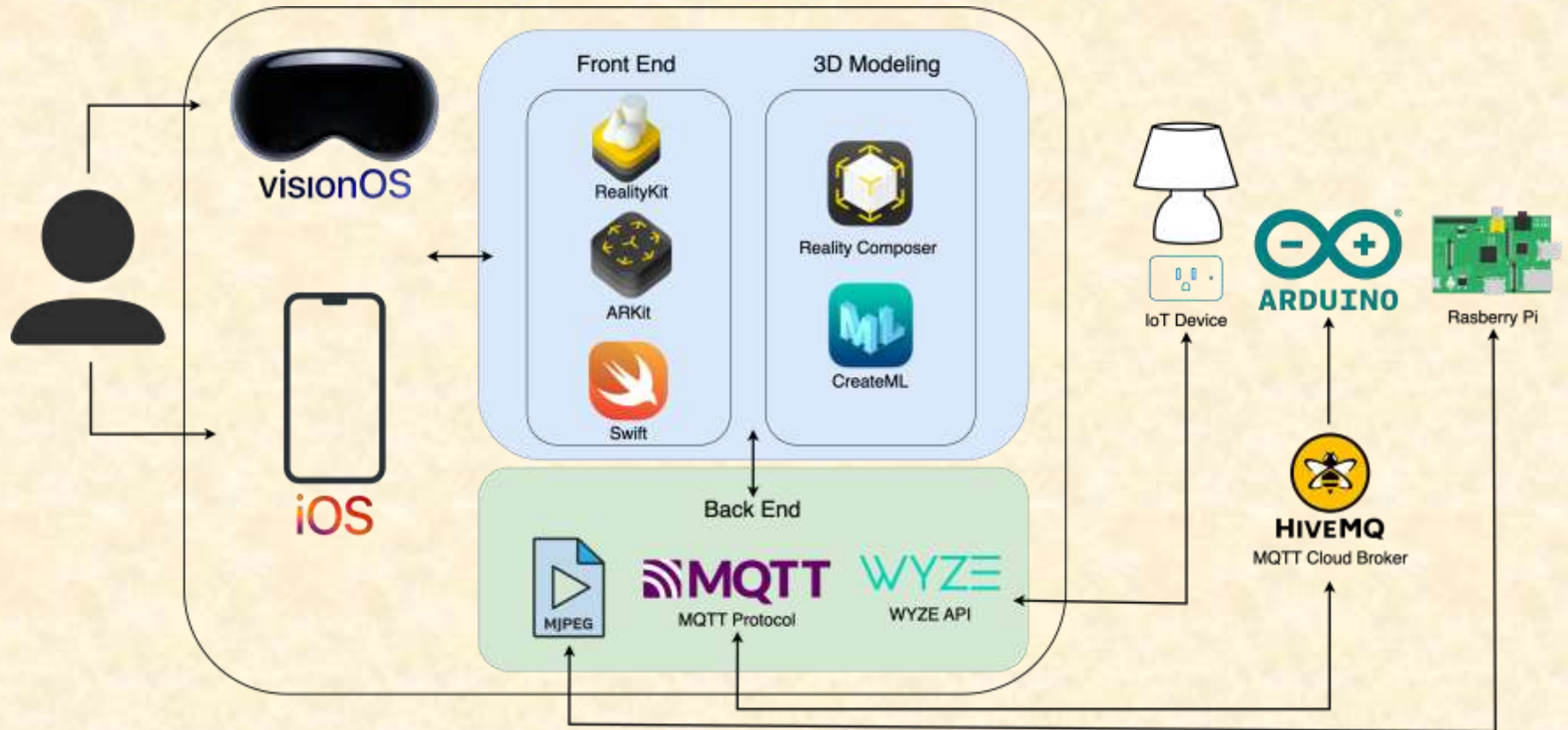
Michigan State University

Fall 2024

From Students…
…to Professionals

Project Overview

- Parallel visionOS and iOS applications
- Spatially control your smart home devices through IoT connections in an AR environment
  - Tracked devices
  - Anchored control views to change device state
- HTTP and MQTT protocols for real-time communication between devices
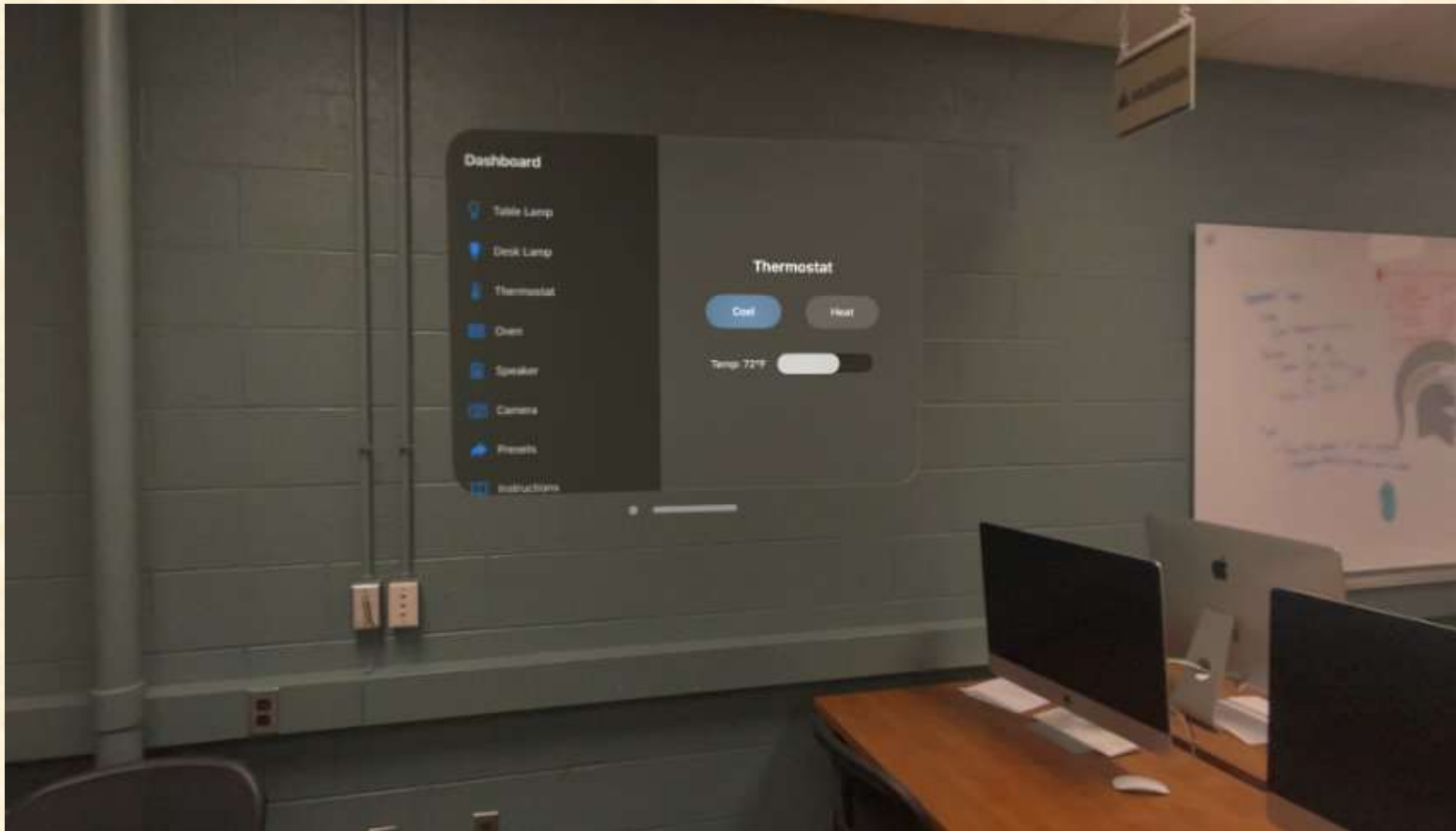
System Architecture

iOS Speaker View

iOS Dashboard Camera View

VisionOS Light and Color Light View

VisionOS Dashboard Thermostat View

What's left to do?

- Features

- Stretch Goals

- Other Tasks
  - Modify timer in iOS speaker dashboard view
  - Disable automatic color light toggle for both devices
  - General bug fixes and optimization for both devices
  - Final code clean up

Questions?

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