

**MICHIGAN STATE**  

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**UNIVERSITY**

# Project Plan Presentation

## From the Ground Up VR

### The Capstone Experience

Team Auto-Owners

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Fall 2024



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

# Project Sponsor Overview

- Auto-Owners Insurance provides insurance
  - Home
  - Auto
  - Life
  - Business
- Headquartered in Lansing, Michigan
- Works with independent insurance agents to provide personalized insurance policies
- Operates in 30 states with 48,000 agents and 3 million policyholders

***Auto-Owners***  
**INSURANCE**



# Project Functional Specifications

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- Provide an interactive VR experience
- Reduces training time for property claims associates
- Ease of use regardless of experience
- Provide novel training opportunities
- Explores materials common in home construction

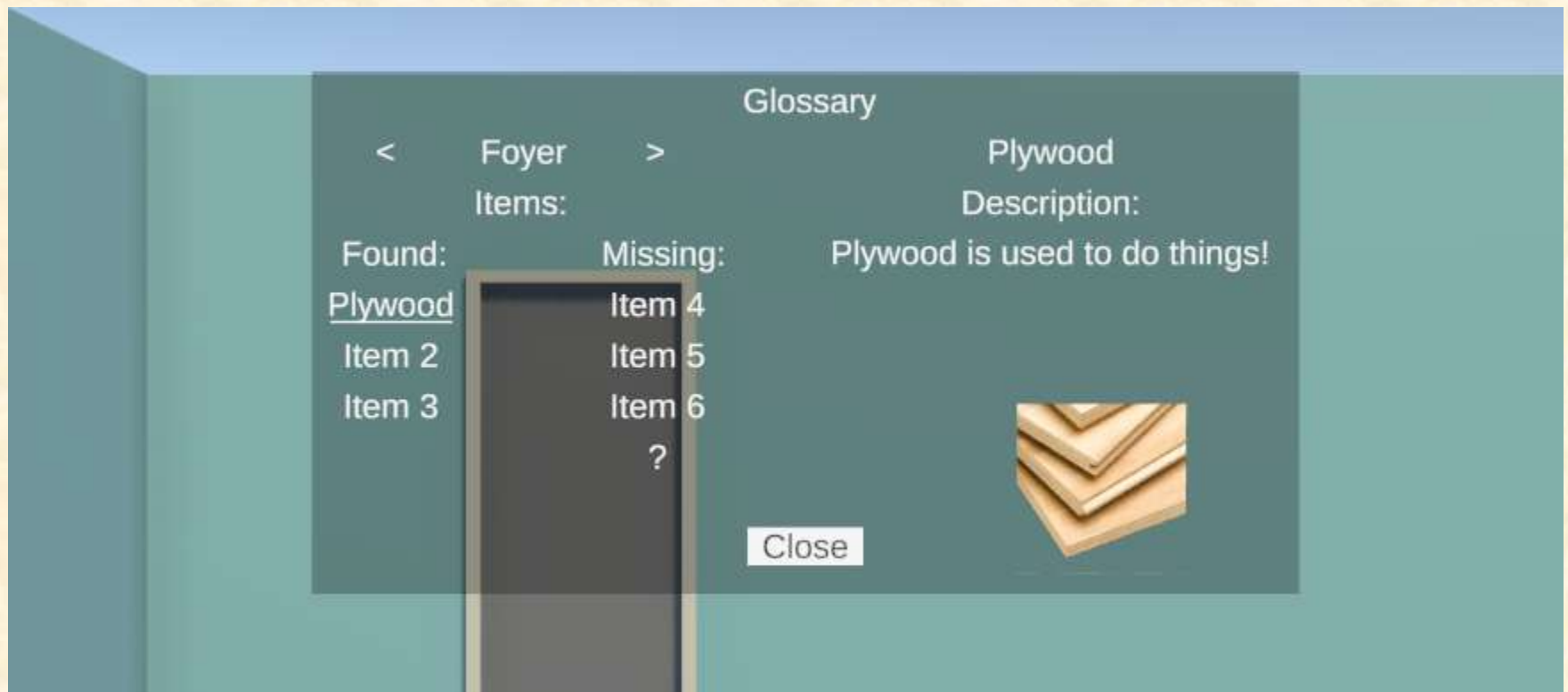


# Project Design Specifications

- Ease of access features
  - Magnetic grabbing feature
  - Teleportation system to reduce motion sickness
  - Tutorial
  - Object range system
- Interactive training experiences
  - In-game tooltips explaining materials
  - Hands on guided experience without human assistance



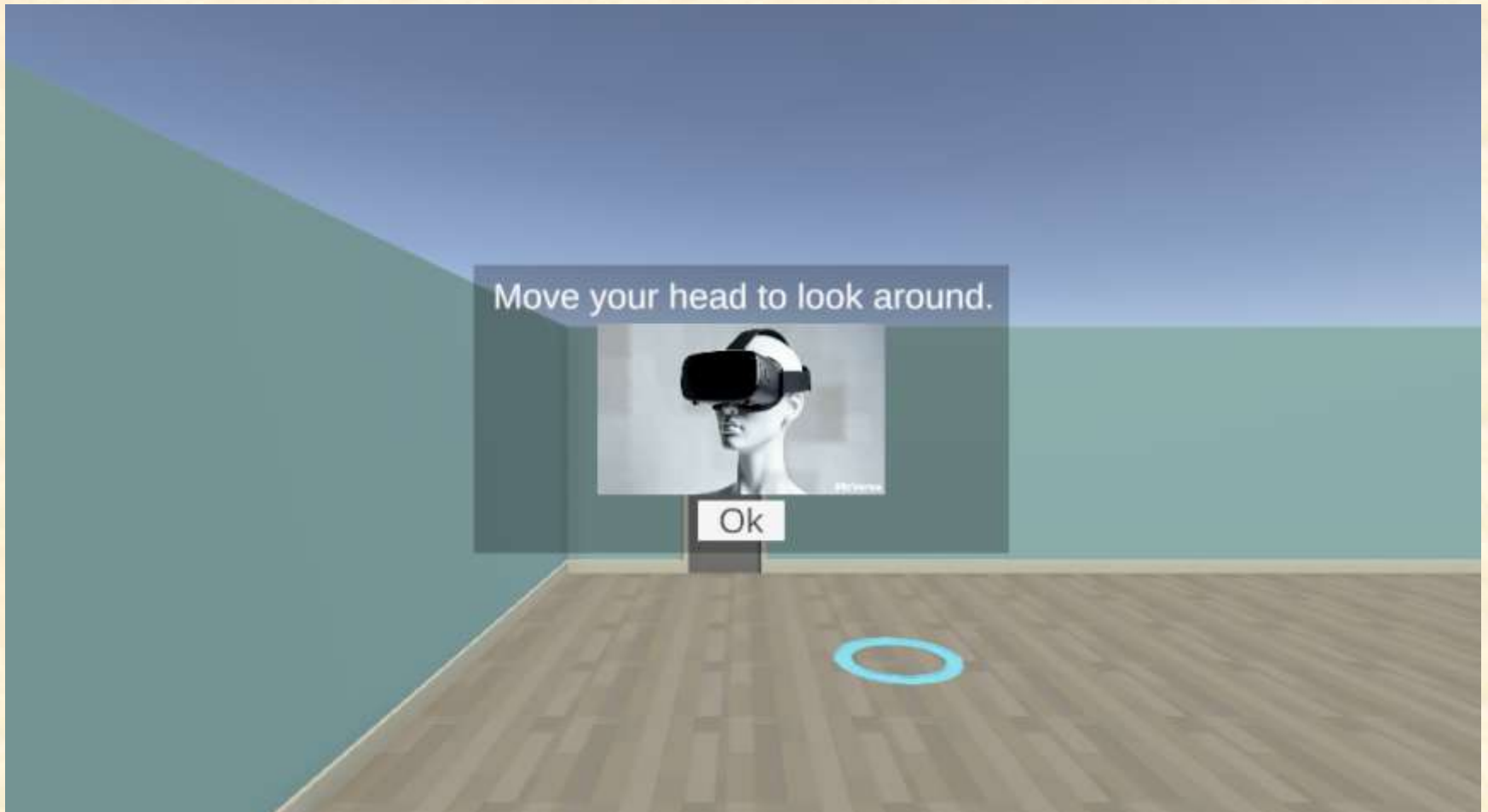
# Screen Mockup: Glossary Menu



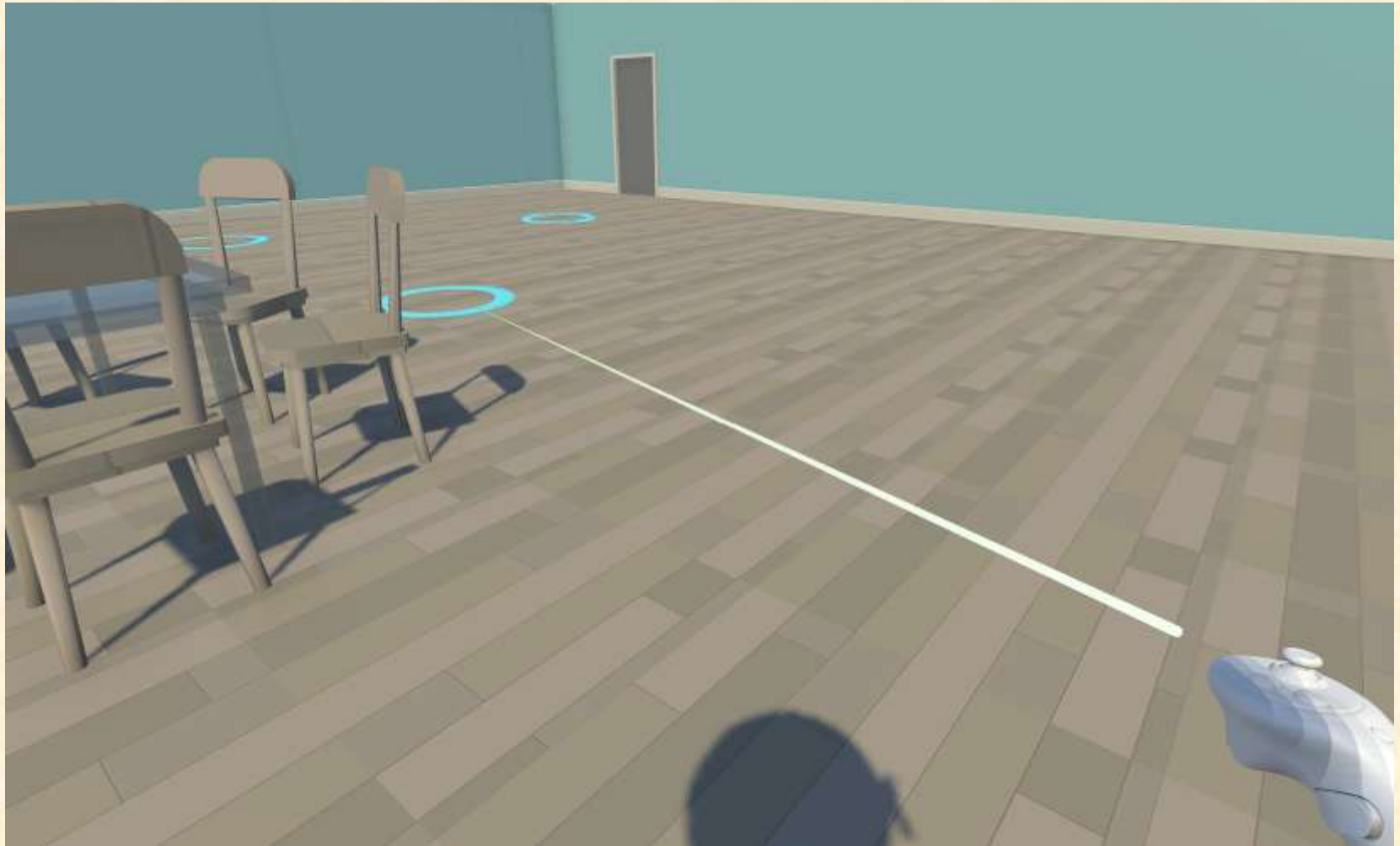
# Screen Mockup: Pause Menu



# Screen Mockup: Player Tutorial



# Screen Mockup: Teleportation





# Screen Mockup: Selecting Objects

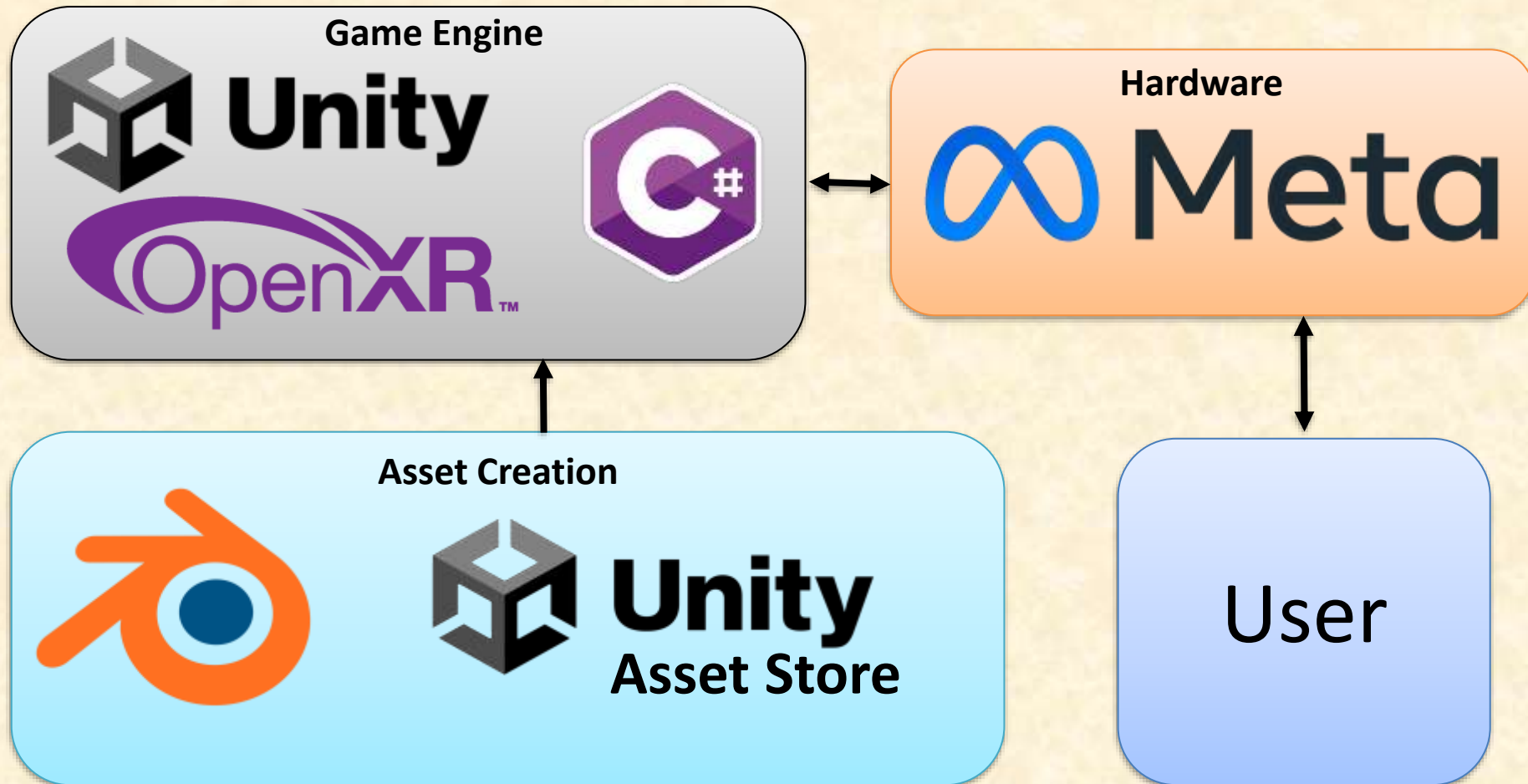


# Project Technical Specifications

- Unity
  - C#
  - XR Toolkit
- Provided Asset Pack
- Meta Quest 3
- Blender



# Project System Architecture



# Project System Components

- Hardware Platforms
  - Meta Quest 3
    - Android 1.12
- Software Platforms / Technologies
  - Unity
    - XR Toolkit
    - C#



# Project Risks

- Menu Design
  - Ensure we can design intuitive menus
  - Follow a course for interactive UX design
- Finding/Creating Assets
  - Game requires assets, difficult to obtain
  - Utilize the Unity Asset Store to get components
  - Learning Blender
- Optimization
  - Ensure the software can run at a consistent frame rate
  - Optimization of scripts along with configuring graphics settings
- Style Consistency
  - Game, environment, and menus must adhere to style guidelines
  - Continuously communicate with Auto-Owners for feedback



# Questions?

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