MICHIGAN STATE UNIVERSITY

Beta Presentation Railroad Switch Alignment Training

The Capstone Experience

Team Union Pacific

Eli McArdle
Farhan Parekh
Joe Potila
Ethan Potvin
Elia Spyratos

Department of Computer Science and Engineering Michigan State University

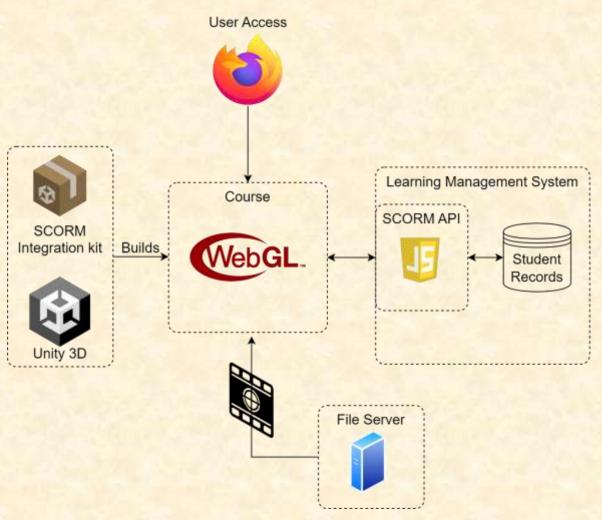
Fall 2023



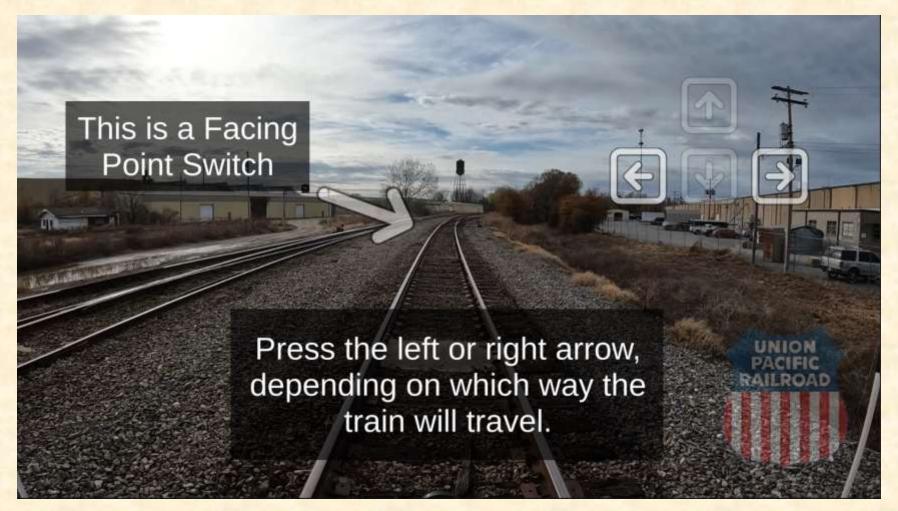
Project Overview

- 'Railroad Switch Alignment Training' sponsored by Union Pacific
- Correct switch identification is crucial
- Set of simulations for training purposes
 - Allows for efficient repetition
 - From a safe environment

System Architecture

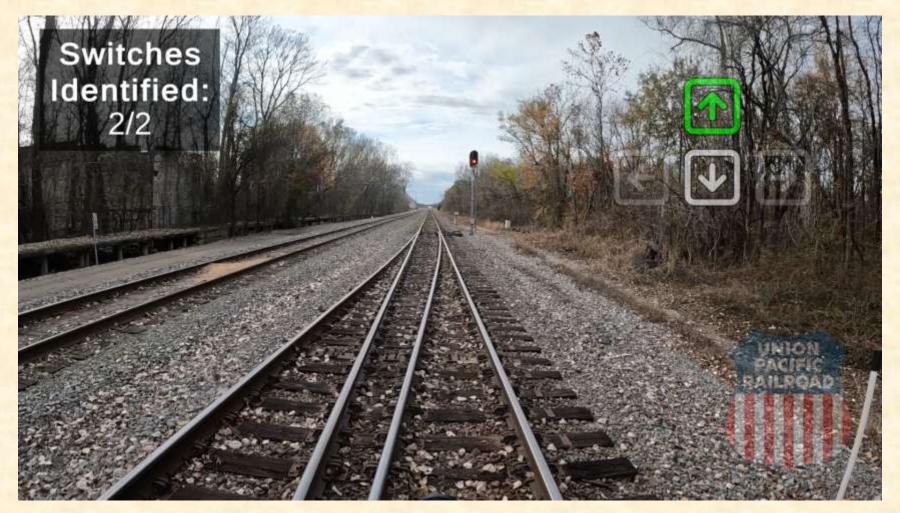


Tutorial Pause



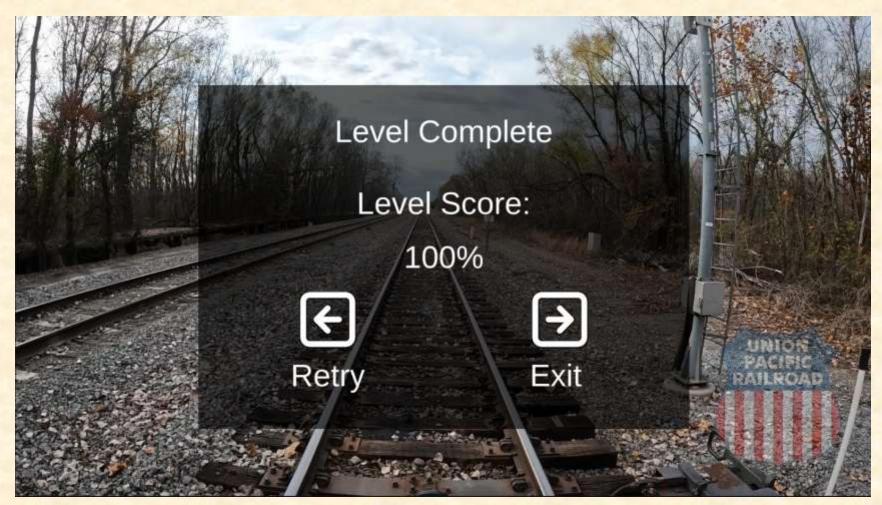


Gameplay



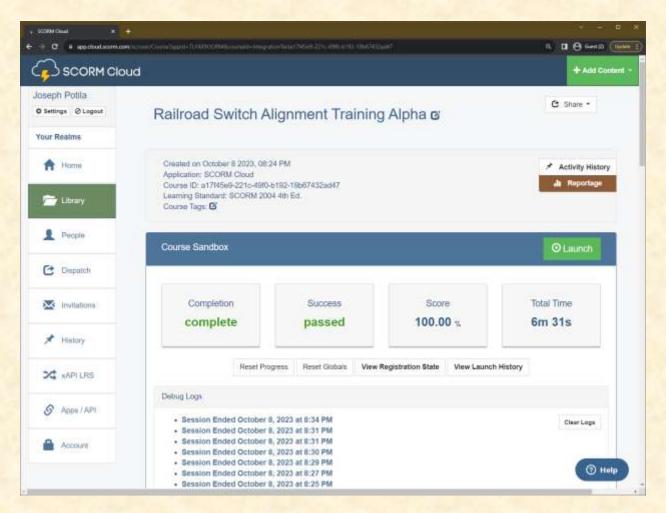


Level Complete





SCORM results



Level Builder



What's left to do?

- Stretch Goals
 - Playback speed
 - Help page (level builder)
 - Individual reaction times

- Other Tasks
 - Ul improvement

Questions?

