MICHIGAN STATE UNIVERSITY

Alpha Presentation RailBuilder: The Great Race to Promontory

The Capstone Experience

Team Union Pacific Zach Brenz Kyle Bush Trever Daniels Declan McClintock Jacob Young

Department of Computer Science and Engineering Michigan State University

Fall 2017

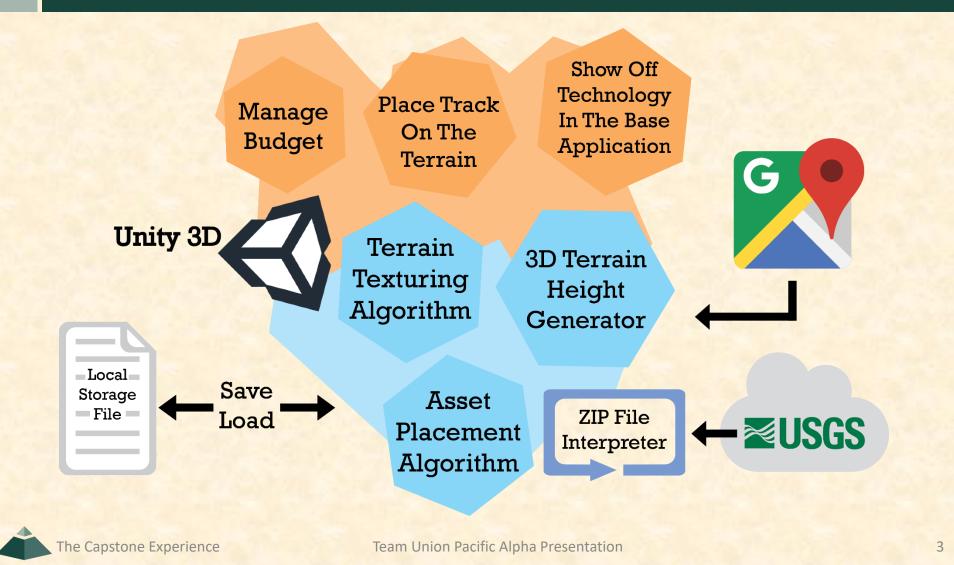


From Students... ...to Professionals

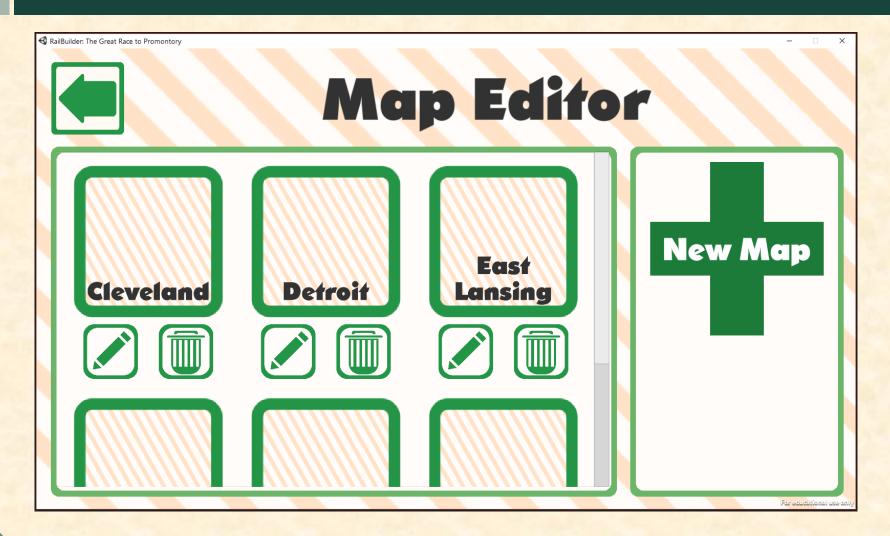
Project Overview

- Simulate real-world environments
 - Topography, soils, water, and vegetation
 - Easy to use interface
 - Provides control for environment piece placement
- Game that showcases this technology
 - Building a railroad between two locations

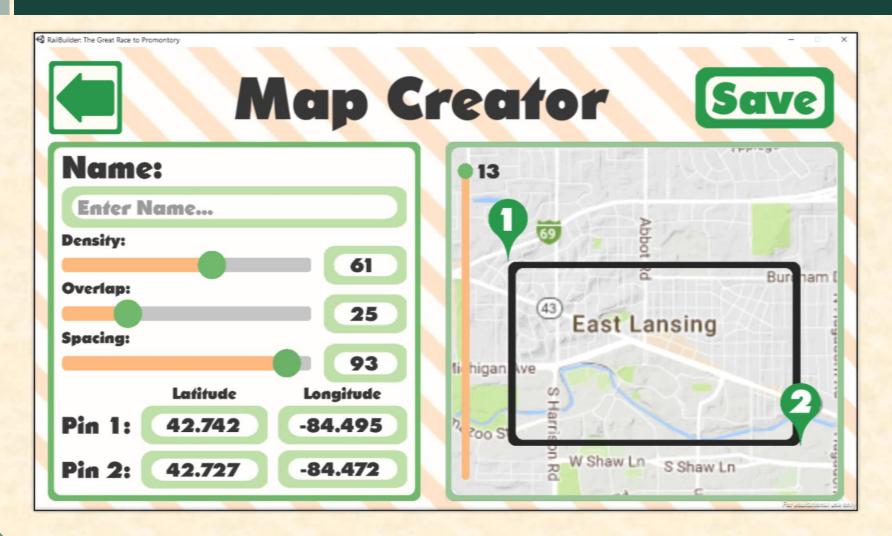
System Architecture



Map Editor



Map Creator



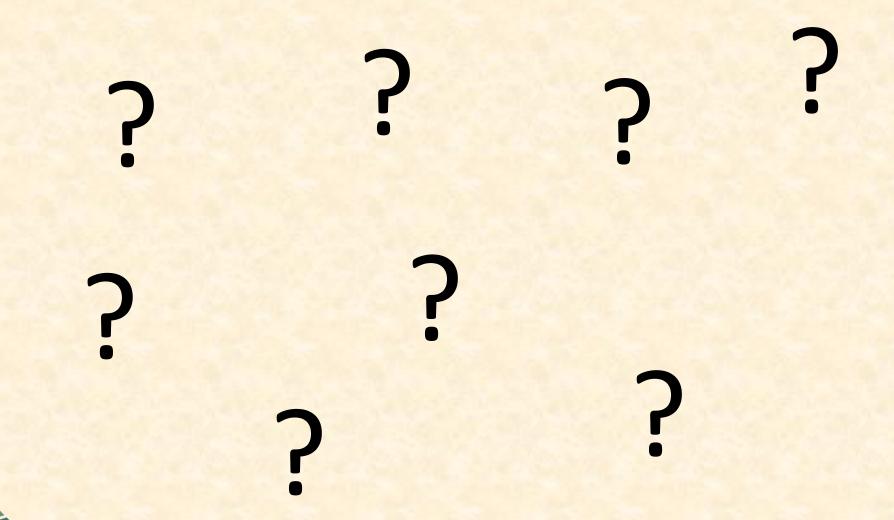
Map Viewer



What's left to do?

- Optimize generation of maps
- Integrate object placement
- Implement saving/loading a map
- Implement user placement of railroad pieces
- Develop the game

Questions?



Video Demonstration

The Capstone Experience