Beta Presentation
Railroad Data Visualization
The Capstone Experience
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Project Overview

• Creates visualizations based on data from train simulation software that allow users to understand complex data with ease

• Visualizations can be created from both existing and new data stored as CSV files

• The multiple visualizations can be controlled by the use of media control buttons like pause, play, fast forward, and rewind as well as a scroll bar for quick access to specific points in time
System Architecture

File Upload → .csv

User → Animated Graph

Web Application

ANGULAR

Data Visualization

plotly

Database

MySQL

REST API

spring
Before Data Selection

Please select a dataset to continue...
Selecting Data

Please select a dataset to continue...
Initial Graph View
Fixed Graph View
What’s left to do?

• Features
• Stretch Goals
  ▪ Locomotive Control Graph
  ▪ Support for Car Length File
• Other Tasks
  ▪ Dark Mode on Graphs
  ▪ Create Setup Documentation
  ▪ Add Locomotive Control Data to Information Card
Questions?