MICHIGAN STATE
UNIVERSITY

Beta Presentation
Railroad Data Visualization

The Capstone Experience

Team Union Pacific

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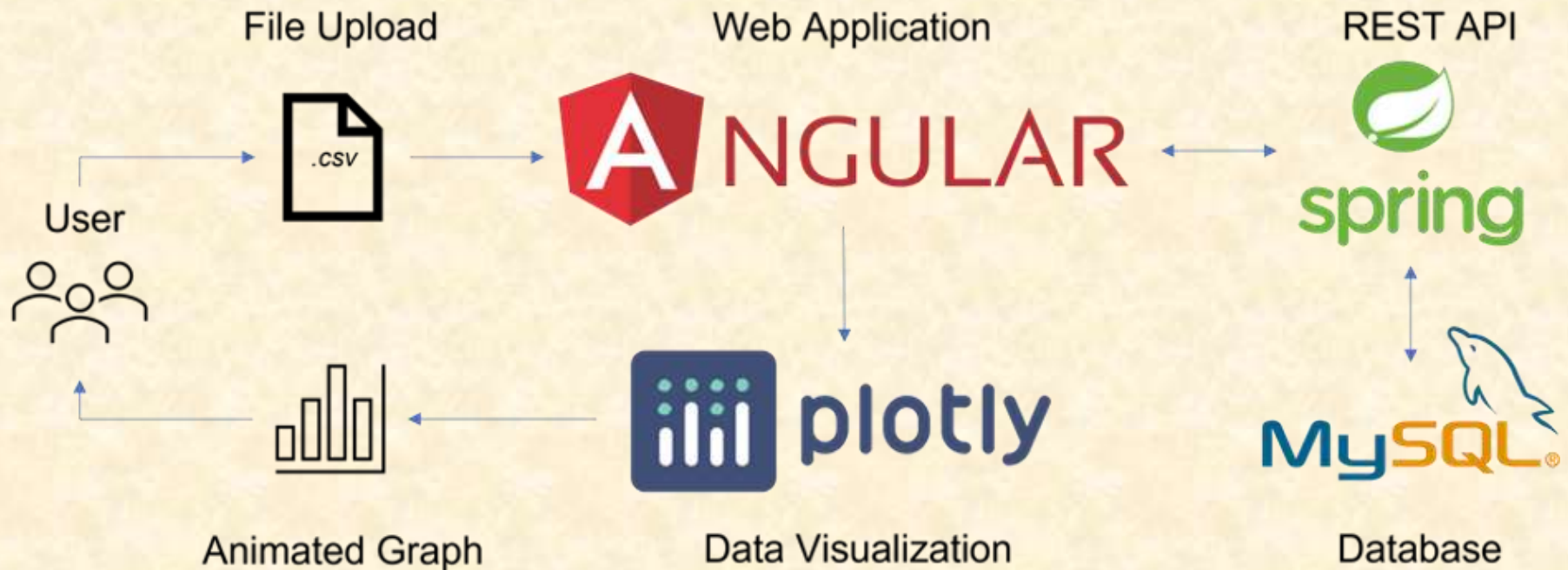Michigan State University

Spring 2022

From Students…
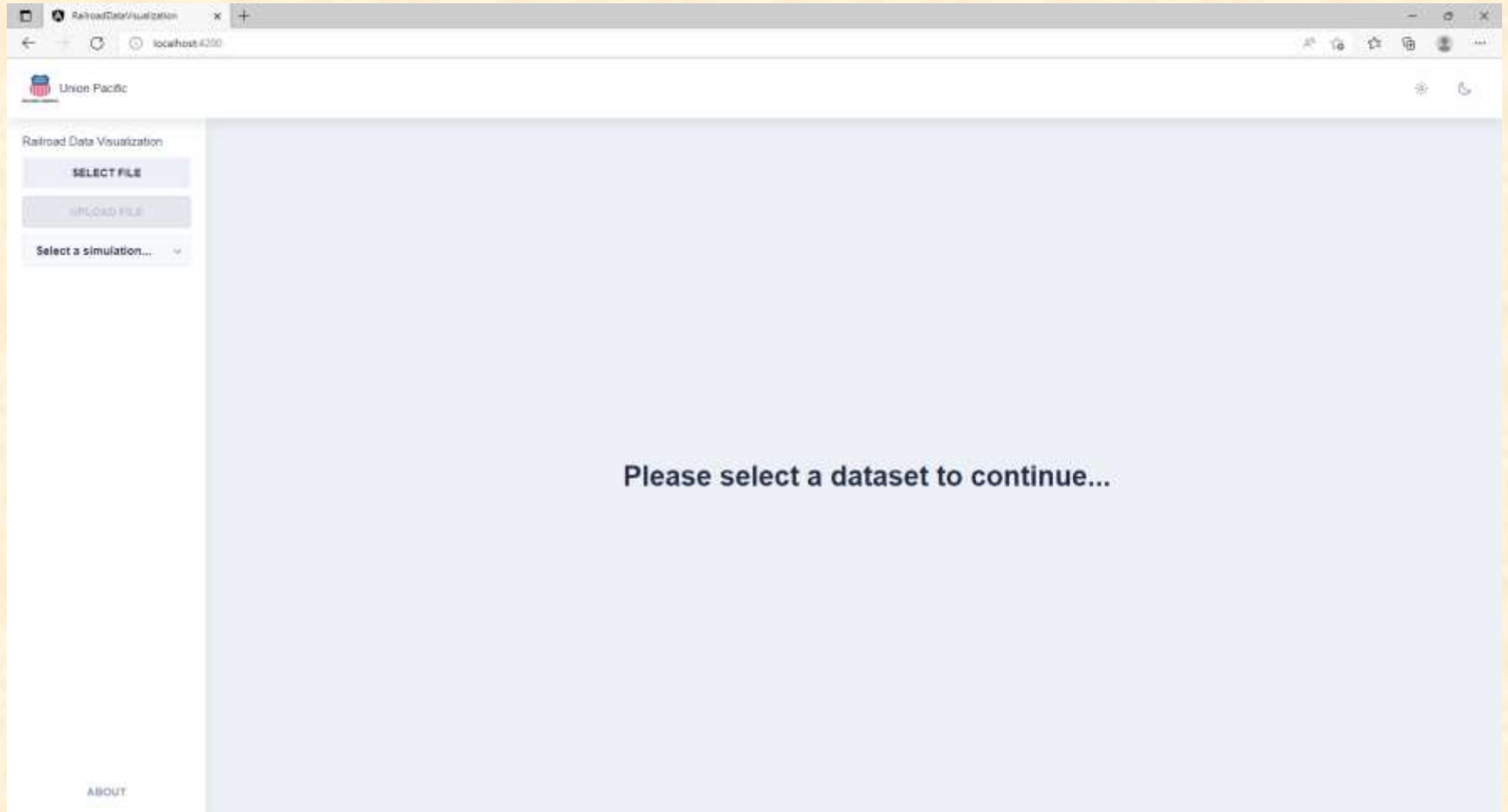*…to Professionals*

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
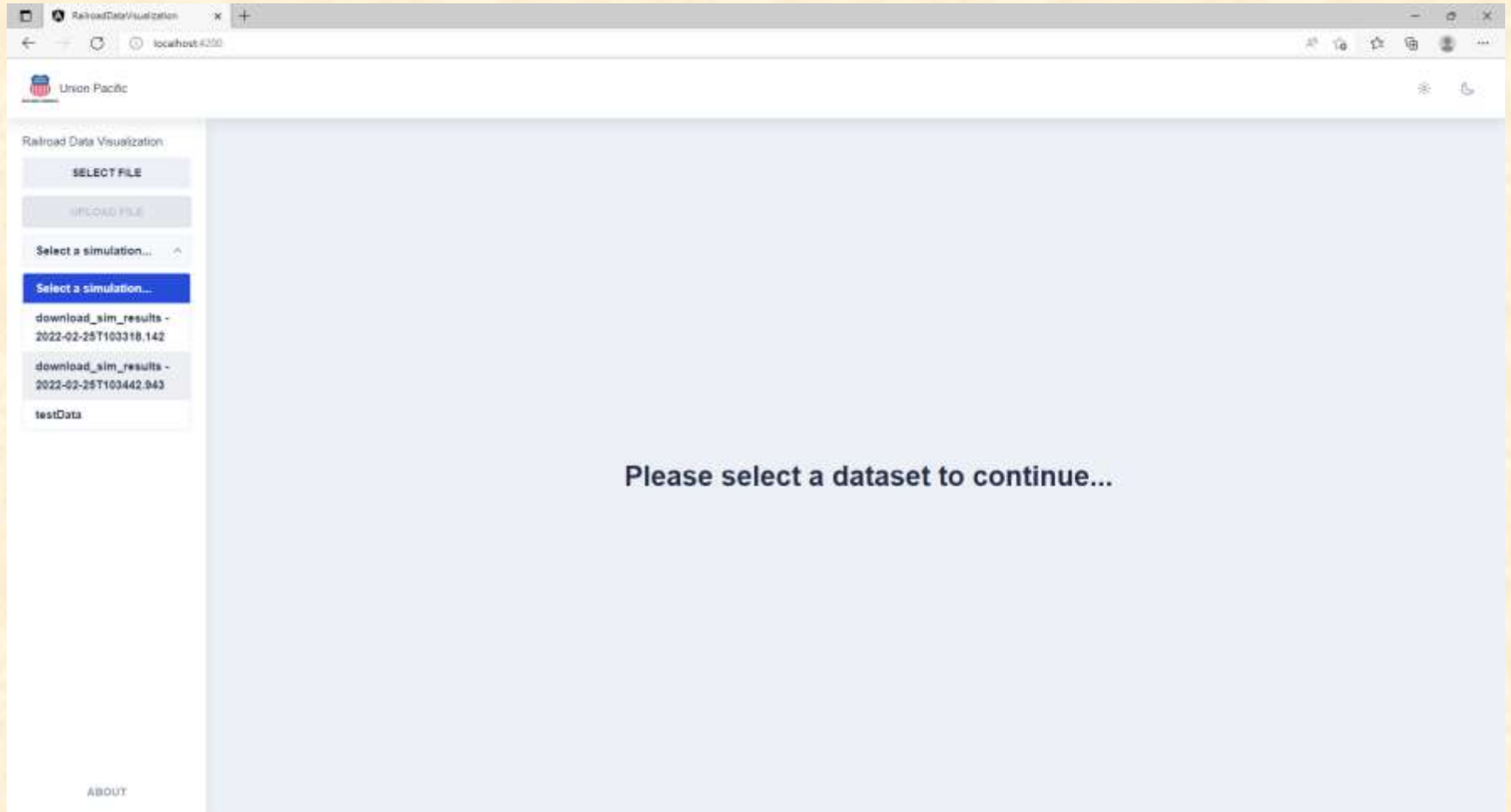
System Architecture

Before Data Selection

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Selecting Data

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?

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