#### MICHIGAN STATE UNIVERSITY

# Alpha Presentation Excel Data Extractor and Modeler

The Capstone Experience

Team Roosevelt Innovations Knowledge Science

Brendan Bushbaker
Het Patel
Kathryn Nagy
Rithwik Pulichera
Adrian Self



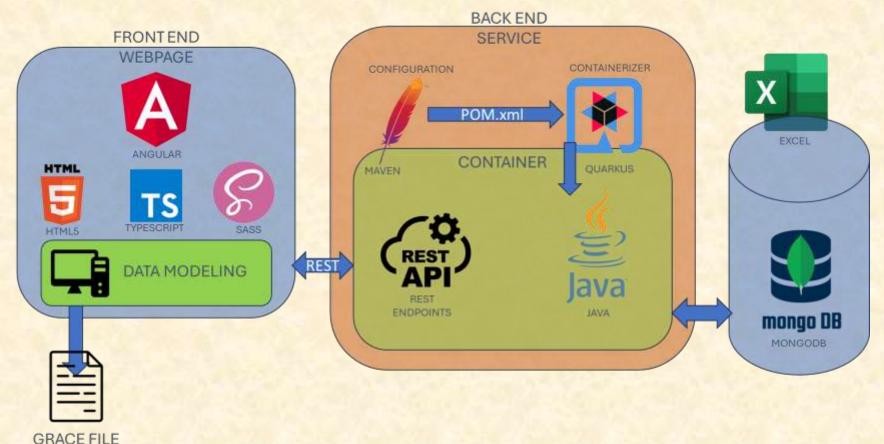
Department of Computer Science and Engineering
Michigan State University

#### **Project Overview**

- Provides SaaS for Insurance
   Analysts with 50+ years of claims experience
- Have saved about 972 million dollars in treatment costs
- Founded as a subsidiary of Delta Dental of Michigan
- Want to provide a better way to process their claims rate calculations
- A better way to extract and model their claims data from Excel

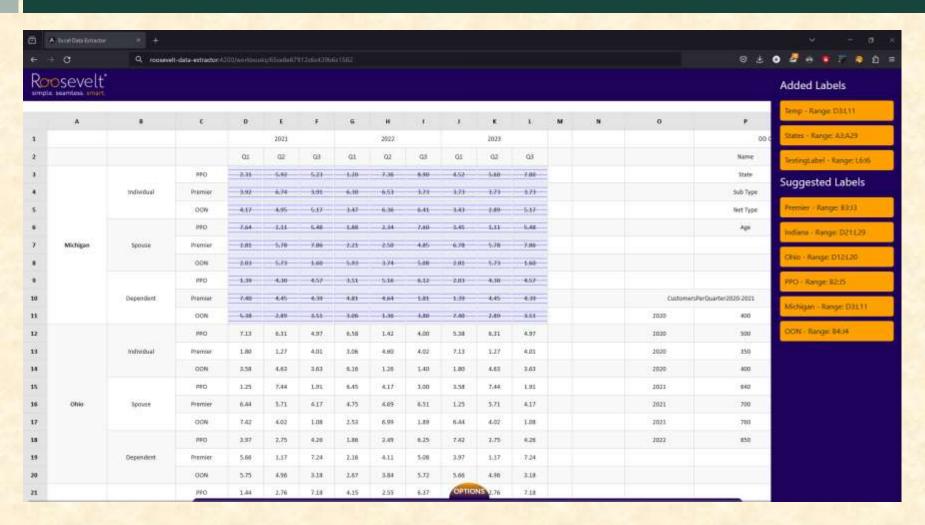
# System Architecture

#### MICROSOFT EXCEL DATA EXTRACTOR/MODELER



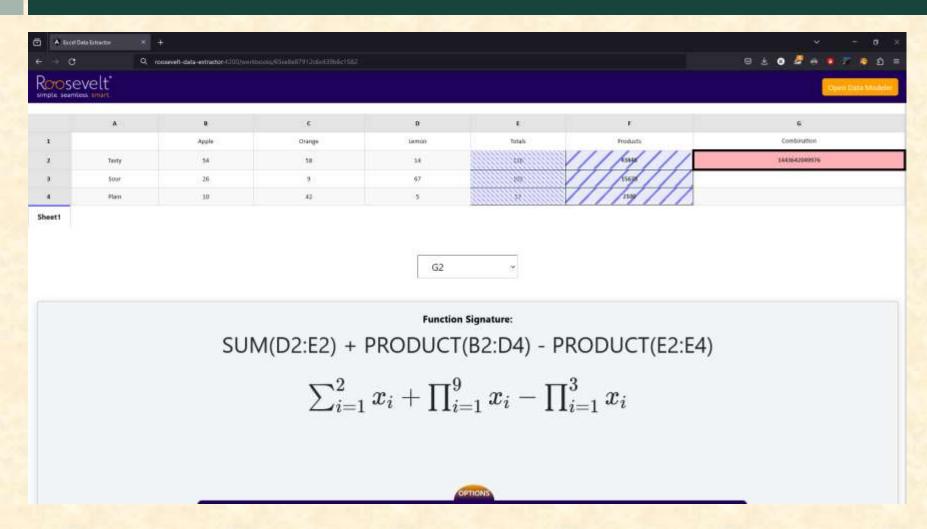
OUTPUT

# Labeling and Measurements

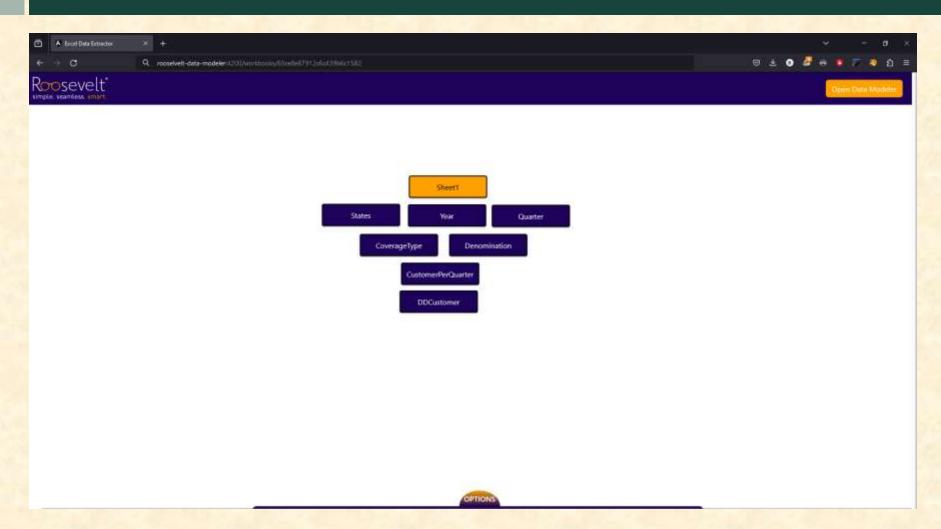




# Formula Analysis

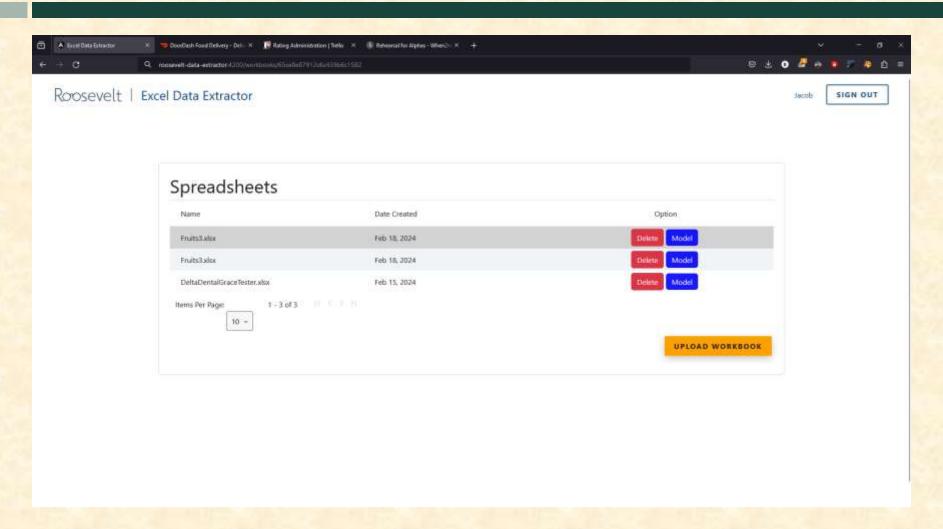


### Data Modeler





#### Workbook Selection



#### What's left to do?

- Finish data modeler.
- Support for additional formulas.
- Upgrade suggested labels.
- Tree view selection.
- UI updates and fixes.
- GRACE file validation.

## Questions?

