MICHIGAN STATE UNIVERSITY

Beta Presentation Maestro

The Capstone Experience
Team Amazon

Ruchika Gupta
Mo Almoamen
Kasidet Meteeputthi
Scott Macpherson
Sawyer Ruben



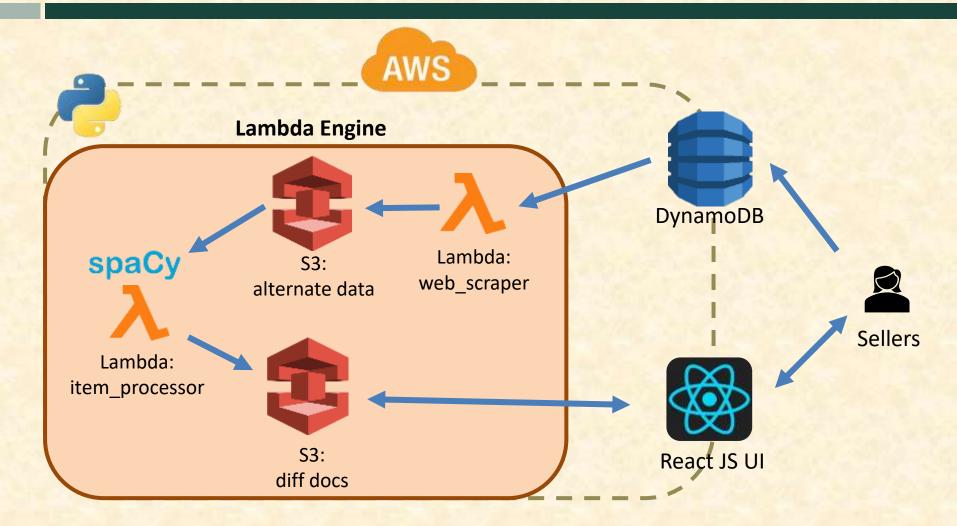
Department of Computer Science and Engineering
Michigan State University
Fall 2020

Project Overview

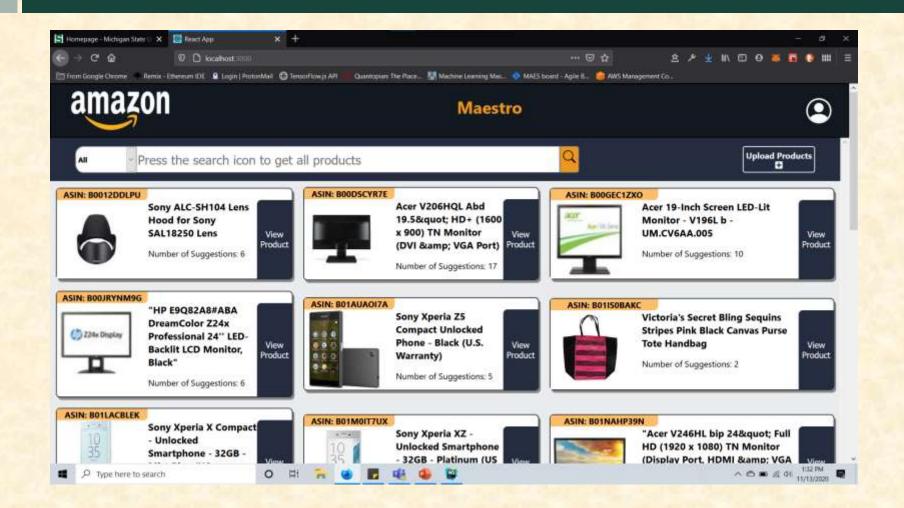
- Identify product description and product specification inaccuracies
- Crawl alternative online sources descriptions
- Use natural language processing to generate suggested changes to current product listings
- Compare quotient to threshold to flag inaccurate descriptions
- Write a diff doc for items to hold suggested value changes
- Display diff doc to users



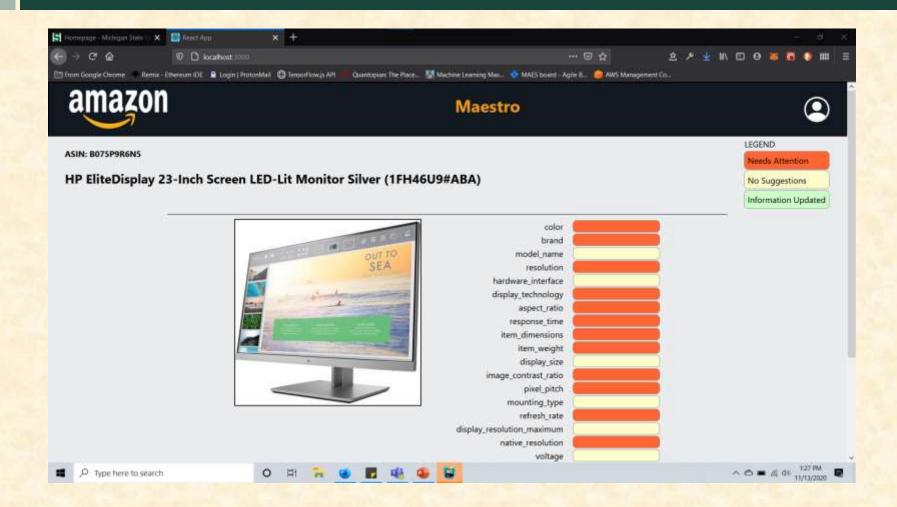
System Architecture



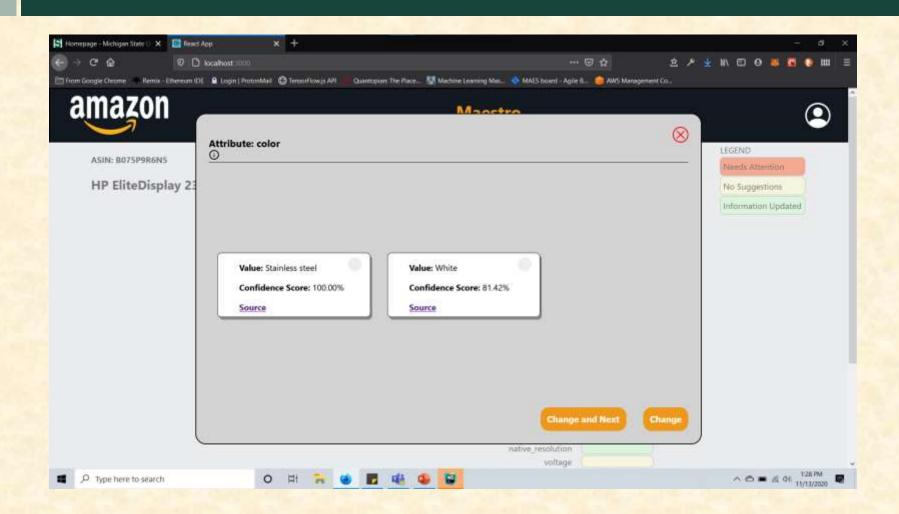
Merchant Product Catalog Dashboard



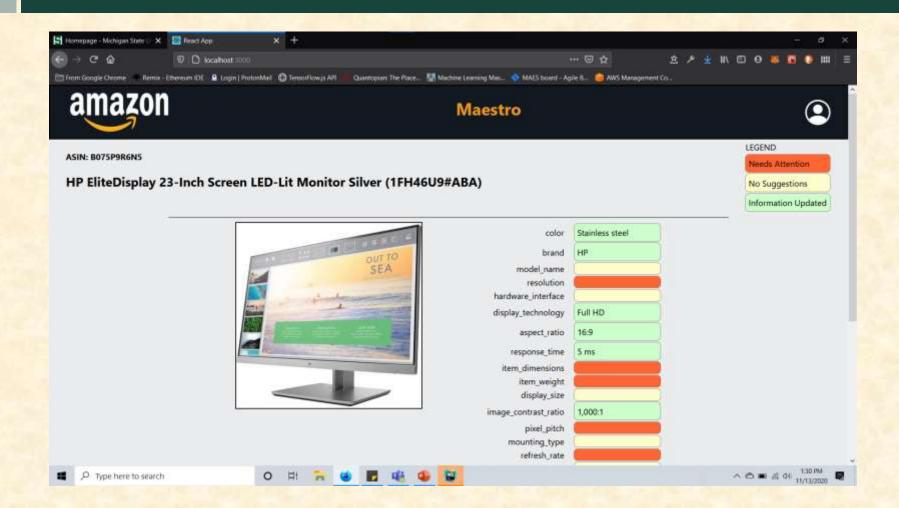
Product Item Details



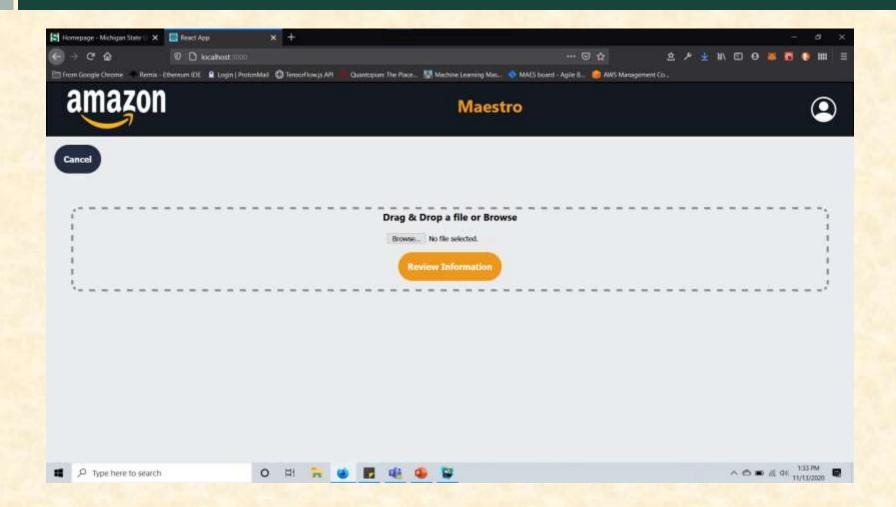
Suggested Changes Options



Updated Product Details



Upload Products



Performance Metrics

- 1 billion products worldwide
- Sellers make trillions of updates annually

- Fill rate: 50.2%
- Average Suggestions/Product: 5.6
- Average Confidence Score: 84%

What's left to do?

- Document code base
- Color adjustments on frontend
- Compute metrics for individual product lines
- Bundling code for delivery to client

Questions?

