From Students…
…to Professionals

MICHIGAN STATE UNIVERSITY

Beta Presentation
Amazon Shop Smart: Web Extension for Shopping

The Capstone Experience

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Project Overview

• Create a pop-up browser extension to improve the Amazon shopping experience
• Tracks Amazon products
• Used while browsing external retailer's sites
• Sends automated email notifications
System Architecture

Frontend
- Chrome
- Amazon Shop Smart Extension
- Chart.js

Authentication
- Fingerprint.js
- AWS Cognito

Login with Amazon

Backend
- AWS Simple Email Service
- AWS Lambda
- AWS DynamoDB
- AWS EventBridge
- beautifulsoup4 4.10.0
Scanner
Tracked Items

Amazon Shop Smart

Your Tracked Items:
- bubly Sparkling Water, 6 Flavor Variety Pack, 12 fl oz Cans (18 Pack)
  - View Price History
- 2020 Apple MacBook Air Laptop: Apple M1 Chip, 13" Retina Display, 8GB RAM, 256GB SSD Storage, Backlit ...
  - View Price History
- The Bad Guys Movie Novelization (Dreamworks: the Bad Guys)
  - View Price History

Deal of the Day
- $18.95 - $20.95
- Hoodies and Sweatshirts from onlypuff and MOSMANN

Add Item
Remove Items

Décor full of joy
Explore Easter décor

A remote caregiving service
to support your loved ones
Alexa Together
Price History
Email Notification

Message from Amazon Shop Smart

amazonshopsmartnotifications@gmail.com
Fri 4/1/2022 6:37 PM
To: Yedlapati, Hithesh

Dear Hithesh Yedlapati,

The product, Amazon Basics Kitchen Island Cart with Storage, Solid Wood Top and Wheels - Cherry / Black, on your Amazon tracked list has decreased below your desired price of $160 with an active price of $135.30!

Thank You for using Amazon Shop Smart!

Reply  |  Forward
What’s left to do?

• Stretch Goals
  ▪ Price trend prediction
  ▪ Make available on Mozilla Firefox
  ▪ Add more supported sites

• Other Tasks
  ▪ Publish to Chrome and Edge stores
  ▪ Optimizations/speedups
  ▪ Beautify email notifications
  ▪ Bug fixes
Questions?