Alpha Presentation

Amazon Smart Shop: Web Extension for Shopping

The Capstone Experience

Team Amazon
  Jiashang Cao
  Richard Huang
  Emma Sickelsteel
  Jimmy Warner
  Hithesh Yedlapati
  Tianli Zhou

Department of Computer Science and Engineering
Michigan State University
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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

Backend
- EC2
- AWS Lambda
- Amazon SES
- Amazon Cloudwatch
- DynamoDB
- AWS CodeDeploy
Tracked Items

1. 2021 Apple 12.9-inch iPad Pro (Wi-Fi, 256GB) - Space Gray
2. Dyson V7 Animal Cordless Stick Vacuum Cleaner Iron
3. Sony Noise Cancelling Headphones WHCH710N: Wireless Bluetooth Over the Ear Headset with Mic for Phone-Call, Black
Scanner

Amazon Shop Smart

Detected Product:
Name: MacBook Air 13.3" Laptop - Apple M1 chip - 8GB Memory - 256GB SSD (Latest Model) - Space Gray
Price: $999.99
Click on the product to shop similar offerings from Amazon

- $220.00 in Savings & Prime Shipping
- $50.99 in Savings
- Prime Shipping
- shop now

Best Buy
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Explore the MacBook Air Collection
Compare Models:
- MacBook Air 13.3" Laptop - Apple M1 chip - 8GB Memory - 256GB SSD (Latest Model) - Space Gray
  Price: $999.99
- MacBook Air 13.3" Laptop - Apple M1 chip - 8GB Memory - 256GB SSD (Latest Model) - Space Gray
  Price: $999.99

Apple
MacBook Air 13.3" Laptop - Apple M1 chip - 8GB Memory - 256GB SSD (Latest Model) - Space Gray
Model: M1/8GB/256GB/512GB
4.3 out of 5 stars (2553 reviews) | 256GB (2442 reviews) | 512GB (1088 reviews)
Highly rated by customers for: Battery, lightweight, Ease of use

$799.99

$579.99

People also bought
Price History
Email Notification

Message from Amazon Smart Shop

amznsmartsopnotify@gmail.com
Wed 2/23/2022 1:53 PM
To: Yedlapati, Hithesh

Dear Hithesh,
The product, vacuum, on your Amazon tracked list has decreased below your desired price of $60 with an active price of $50!

Reply  |  Forward
What’s left to do?

• Display tracked items specific to users
• Save login information
• Predict best time for purchase
• Remove an item from the tracked list
• Get Dynamic current price data to compare with Desired Price
  ▪ Update Email Notification Accordingly
Questions?