Project Overview

• Allow users to search and stream videos from external sources (e.g. YouTube).

• Leverage user's interest in the items shown in their favorite movies and music videos.

• Identify key items and people in the videos.

• Find products related to the items and people presented in the video.

• Display product information to allow users to quickly find and purchase products.
System Architecture

AWS

- Amazon Shopping API
- Rekognition
- Amazon RDS

Identifiable items
Keywords
Comprehend

Token
User authentication

MSU Team Amazon AVAST

Product recommendations
User
Video served to user

User Search
Video sent to backend

Angular
AVAST

laravel

External Video Source
- e.g. YouTube

API
Get video feed from services
Video

Third Party
Home Page
Search Result Page

Introducing Amazon Echo
BrandonYT • 323k views • January 10, 2017
Go buy from - http://amzn.to/2le3UHm

Alexa en français (Amazon Echo)
Mac4Ever • 19.4k views • February 17, 2018

Amazon Echo Dot 3 review: Bigger, better, still 50 bucks
CNET • 81.7k views • October 10, 2018
With a new fabric-bodied design and noticeably better sound, Amazon's latest Echo Dot is its best yet -- but can it blunt Google's momentum?

Amazon Echo Spot - Un appareil Echo élégant, compact, doté d'un écran - Amazon.fr
Mac4Ever • 15.7k views • June 5, 2018
Présentation Amazon Echo Spot

Amazon Echo & Alexa 10 Everyday Uses
Craig's Tech Talk • 605k views • November 11, 2017
Video Page

Introducing Amazon Echo
323,398 views
BrandonYT
Published on January 10, 2017

Amazon Product Feed
- Echo Dot (3rd Gen) Bundle with Amazon Smart Plug - Charcoal
  $74.98
- Panasonic KX-TG6532W Expandable Cordless Phone with Call Block and Voice Assistant
  $59.95
- Honor 7X GSM Unlocked Smartphone
  5.93" FullView Display, 16MP + 2MP
  $199.99
- Nintendo Joy-Con (L/R) - Neon Pink / Neon Green
  $79.99
- Dell OptiPlex Desktop Complete Computer Package with Windows 10
  $124.54
- Huawei Mate SE Factory Unlocked 5.93" 4GB/64GB Octa-core Processor
  16MP + 2MP
  $239.99
- Lifetime 4428 Height Adjustable Folding Utility Table, 48 by 24 Inches, White
  $37.27
- Oster Extra Large Digital Countertop Convection Oven, Stainless Steel
  $119.00
- BESTEK USB Power Strip 8-Outlet Surge Protector 1500 Joulles with 40W/8A 6
  $24.99

Watch later Share
Account Page

Account Info
- Profile Pic: Choose
- First Name: Patrick
- Last Name: McCormick
- Submit

Video Services
- YouTube
- Dailymotion
- Unlink

AVAST Affiliate
- Add AVAST Video to give your viewers recommendations straight from their screen
- Connect your Amazon Associates Account

History
- View History
- Clear History

What is this?
What’s left to do?

• Improve product recommendation by using video caption.
• Improve test coverage to at least 75%, currently at about 50%.
• Fix potential bugs reported by unit tests.
• Integrate Google Analytics to capture user metrics.
Questions?