

**MICHIGAN STATE**  
**UNIVERSITY**

# Beta Presentation

AVAST: Amazon Video and Shopping Technology

The Capstone Experience

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*From Students...*  
*...to Professionals*

Department of Computer Science and Engineering  
Michigan State University  
Fall 2018

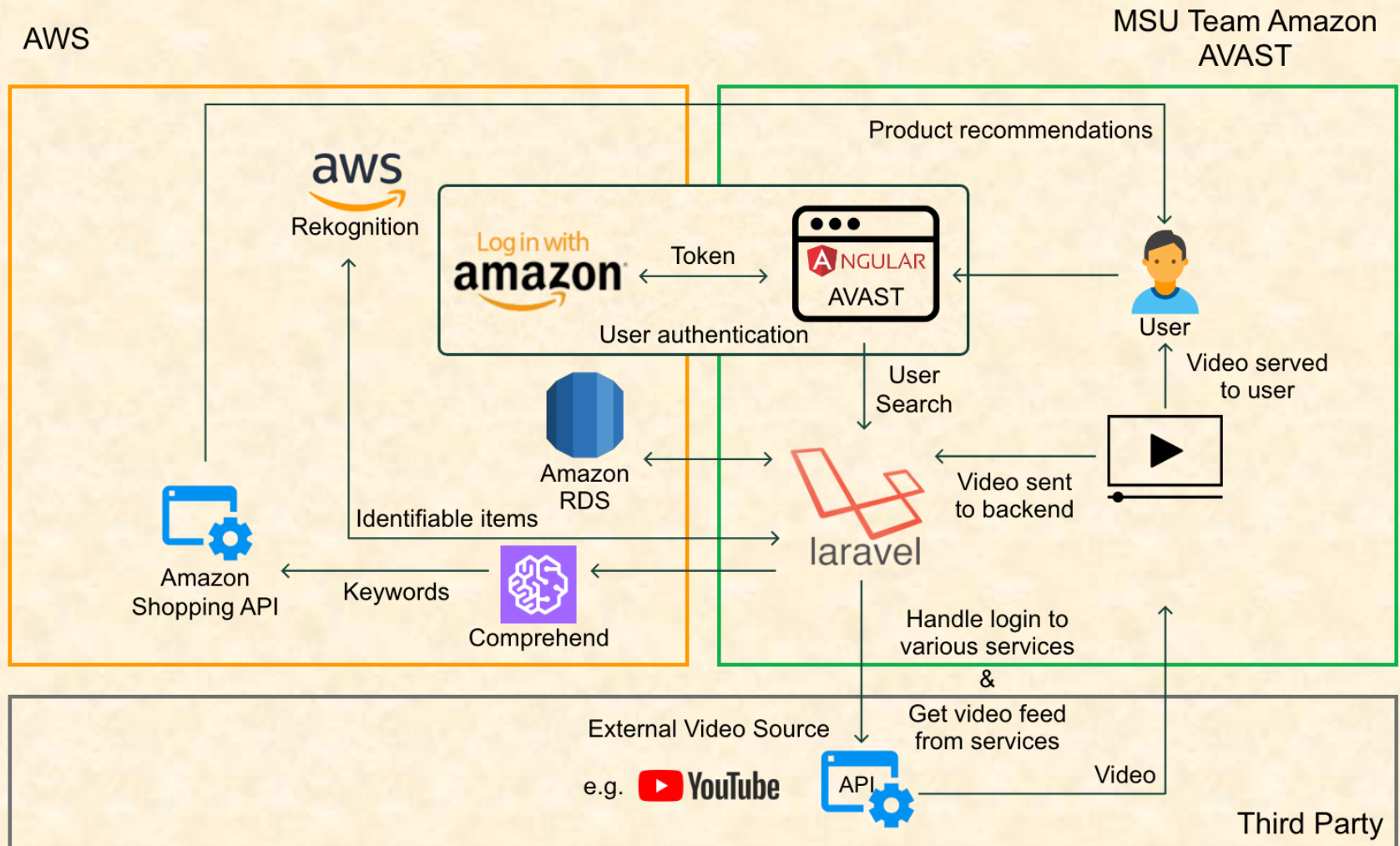
# Project Overview

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- 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



# Home Page

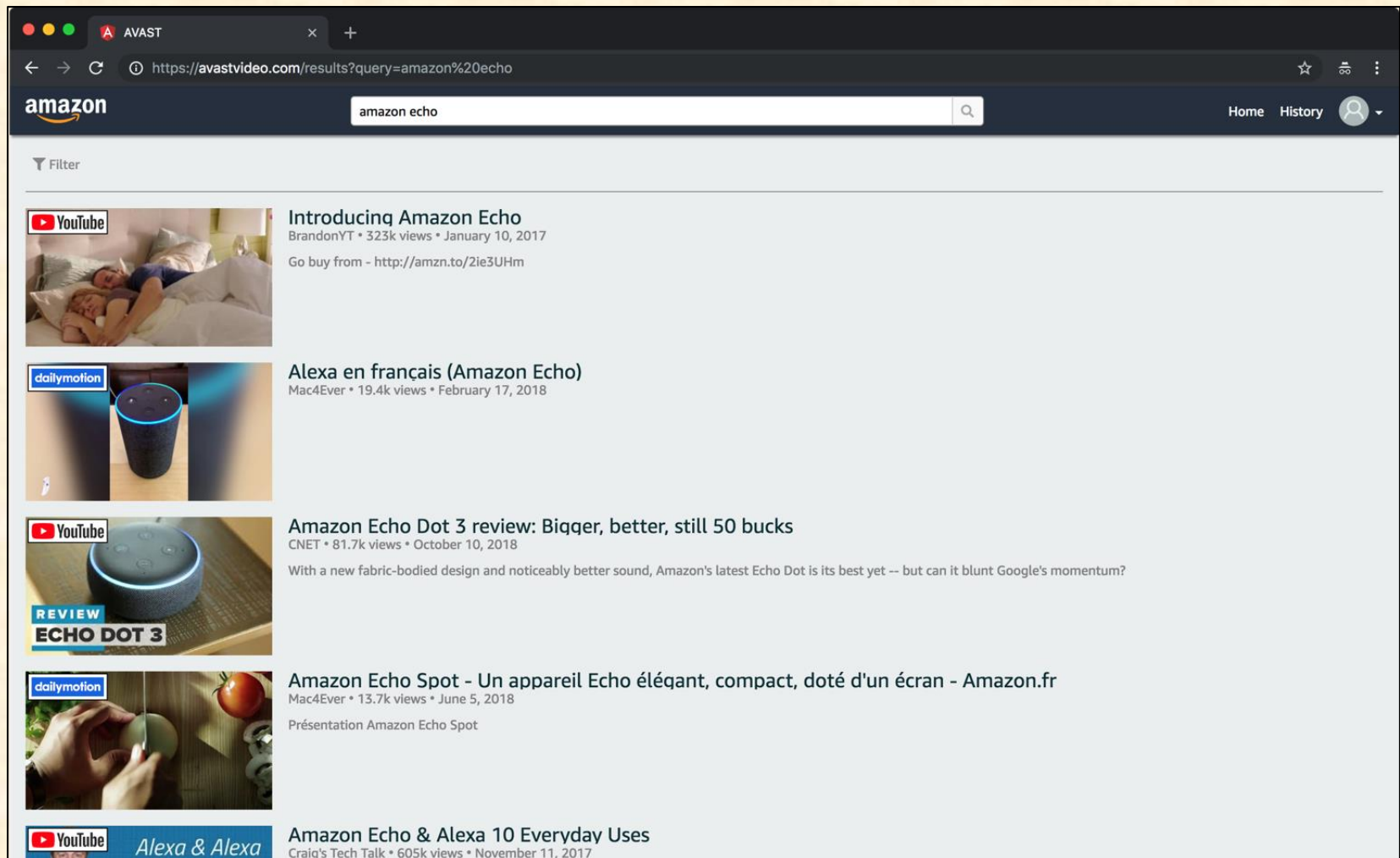
The screenshot displays the Amazon Beta Home Page interface. At the top, there's a browser window with the address bar showing 'https://avastvideo.com/home'. Below the browser, the Amazon logo is on the left, and a search bar is in the center. On the right, there are links for 'Home' and 'History', along with a user profile icon.

The main content area is divided into three sections:

- Trending on YouTube:** This section features six video thumbnails. Each thumbnail includes a title, a channel name, and a view count. The videos are: 'Veterans Voices | Listening is Honoring' by Google (430k views), '23-Year-Old Completes Trip Across Country on Rollerblades' by Inside Edition (178k views), 'CATCHING EXERCISE BALLS from 165m Dam!' by How Ridiculous (4.8M views), 'YouTubers React To Try Not To Sing Along Challenge (Internet Songs)' by FBE (743k views), 'FASHION PHOTO RUIVIEW: All Stars 4 Cast w/ Kameron Michaels & Asia' by WOWPresents (353k views), and 'Fixer Upper's Chip and Joanna Gaines Announce Their Return to TV' by The Tonight Show Sta... (761k views).
- Trending on Dailymotion:** This section also features six video thumbnails. Each thumbnail includes a title, a channel name, and a view count. The videos are: 'UK's biggest Warship - The HMS Elizabeth | FT Business' by Financial Times (7.8k views), 'Yung Reeks x Skar - Burn Out [Music Video] | GRM Daily' by GRM Daily (4.0k views), 'Berna - Alcatel / Likkle Bit [Music Video] | GRM Daily' by GRM Daily (4.5k views), 'XXXTENTACION is alive & explains what happened | XXXTENTACION - NOW THATS TRENDING' by 6.5k views, 'Five amazing basketball records by FaceTeam - Guinness World Records' by Guinness World Records (15.6k views), and 'SmokeyBoys - More Life [Music Video] | GRM Daily' by GRM Daily (639 views).
- YouTube Subscriptions:** This section shows a row of subscription cards for various channels: 'Online Tutorials', 'Coding Tech', 'Jesse Showalter', 'freeCodeCamp.org', and 'DesignCourse'.



# Search Result Page





# Video Page

AVAST x +

← → ↻ 🔒 https://avastvideo.com/watch?source=YouTube&v=zmhcPKKt7gw ☆ 📁 ⋮

amazon amazon echo 🔍 Home History 👤

**YouTube** Introducing Amazon Echo

Watch later Share

INFORMATION

3:37 / 3:54 CC HD YouTube

**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 Prime
- Panasonic KX-TGD532W Expandable Cordless Phone with Call Block and  
\$59.95 Prime
- Honor 7X GSM Unlocked Smartphone 5.93" FullView Display, 16MP + 2MP  
\$199.99 Prime
- Nintendo Joy-Con (L/R) - Neon Pink / Neon Green  
\$79.99 Prime
- Dell OptiPlex Desktop Complete Computer Package with Windows 10  
\$124.34 Prime
- Huawei Mate SE Factory Unlocked 5.93" - 4GB/64GB Octa-core Processor 16MP +  
\$259.99 Prime
- Lifetime 4428 Height Adjustable Folding Utility Table, 48 by 24 Inches, White  
\$37.07 Prime
- Oster Extra Large Digital Countertop Convection Oven, Stainless Steel  
\$119.99 Prime
- BESTEK USB Power Strip 8-Outlet Surge Protector 1500 Joules with 40W/8A 6



# Account Page

The screenshot shows a web browser window with the address bar displaying `https://avastvideo.com/account`. The browser's address bar also shows the AVAST logo and a search bar. The page header features the Amazon logo, a search bar, and navigation links for Home and History. The main content area is divided into four sections:

- Account Info:** Contains a profile picture placeholder with a 'Choose' link, input fields for 'First Name' (Patrick) and 'Last Name' (McCormick), and a 'Submit' button.
- Video Services:** Displays links for YouTube and dailymotion, each with an 'Unlink' button.
- AVAST Affiliate:** Includes text about adding AVAST Video to recommendations, a button to 'Connect your Amazon Associates Account', the Amazon Associates logo, and a 'What is this?' link.
- History:** Features a clock icon, a trash can icon, and buttons for 'View History' and 'Clear History'.



# What's left to do?

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- 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?

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