Beta Presentation
Meijer Smart Shopper
The Capstone Experience
Team Meijer
Bram Kineman
Vijay Vatti
Farhadul Fahim
Ky Nguyen
Jintian Chen
Department of Computer Science and Engineering
Michigan State University
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Project Overview

• Proof of concept
• Implement Alexa with standalone Meijer app
• ‘Hey Alexa, add bread to my Meijer shopping cart’
• Support user profiles
  ▪ Favorites
  ▪ Coupons
• iOS, Android and web
System Architecture

Alexa Voice Services
- Process Voice Data
- Capture Intent

Alexa Device

Data Processing
- Update Database

Azure Database
- Tables: Customer, Cart, List, Favorites, Coupons, Products, Inventory, Store

Flask App
- Data Processing
- Update Database

Azure Function App
- Determine Intent
- Form Alexa Response

iOS App
- Android App

Website
Android Search Catalog
Website Cart

Your Cart
Total: $12

1. Bubly Sparkling Water Strawberry Flavor - $3
   Quantity: 1

2. RUSTIK SOURDOUGH BREAD BOWL, 8 OZ - $3
   Quantity: 1

3. Kraft Natural Cheese Mexican Cheese - $3
   Quantity: 1

4. The FW BBQ Pizza Rocker Cutter features sh... - $3
   Quantity: 1
## iOS Coupons

<table>
<thead>
<tr>
<th>Item</th>
<th>Discount</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cara Cara Oranges</td>
<td>$1.75</td>
</tr>
<tr>
<td>Pomegranate</td>
<td>$1.50</td>
</tr>
<tr>
<td>Bok Choy</td>
<td>$1.99</td>
</tr>
<tr>
<td>Cotton Candy Gr...</td>
<td>$2.03</td>
</tr>
<tr>
<td>Honeycrisp Apple</td>
<td>$1.33</td>
</tr>
<tr>
<td>Emerald Squash</td>
<td>$1.71</td>
</tr>
<tr>
<td>Heirloom Tomatoes</td>
<td>$2.66</td>
</tr>
<tr>
<td>Aloha Pepper</td>
<td>$1.07</td>
</tr>
<tr>
<td>Seedless Watermelon</td>
<td>$1.30</td>
</tr>
<tr>
<td>Honeydew Melon</td>
<td>$2.49</td>
</tr>
<tr>
<td>Zucchini Squash</td>
<td>$1.18</td>
</tr>
</tbody>
</table>

Team Meijer Beta Presentation
## Android Favorites

![Android Phone with Favorites List](image)

<table>
<thead>
<tr>
<th>Favorites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dove Eggs Milk Chocolate Peanut Butter 2 Eggs Easter 2.12 oz</td>
</tr>
<tr>
<td>Meijer Whole Milk, Gallon</td>
</tr>
<tr>
<td>TruMoo Milk Whole Chocolate Vitamin D Quart Plastic Bottle</td>
</tr>
<tr>
<td>M&amp;M's Milk Chocolate Pouch Easter, 3.8 oz</td>
</tr>
</tbody>
</table>
What’s left to do?

• Stretch Goals
  ▪ Schedule pick-up/delivery through Alexa
  ▪ User-set Alexa favorite recommendation threshold
  ▪ Location services

• Other Tasks
  ▪ UI Polishing
  ▪ More flexible Alexa intents/commands/conversations
Questions?
End of slide show, click to exit.
Architecture V1

Amazon Web Services

Alexa Voice Services
- Process Voice Data
- Capture Intent

Lambda Function
- Determine Intent
- Form Alexa Response
- Update Database

Azure Database
- Customer Table
- Shopping List/Cart Tables
- Coupons Table
- Product Table

Alexa Device

Android App

iOS App

Website