

**MICHIGAN STATE**  

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**U N I V E R S I T Y**

# Alpha Presentation

## Intelligent Shopping List

### The Capstone Experience

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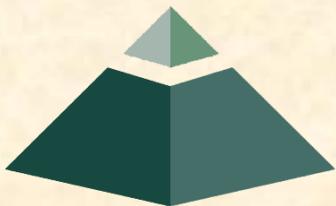
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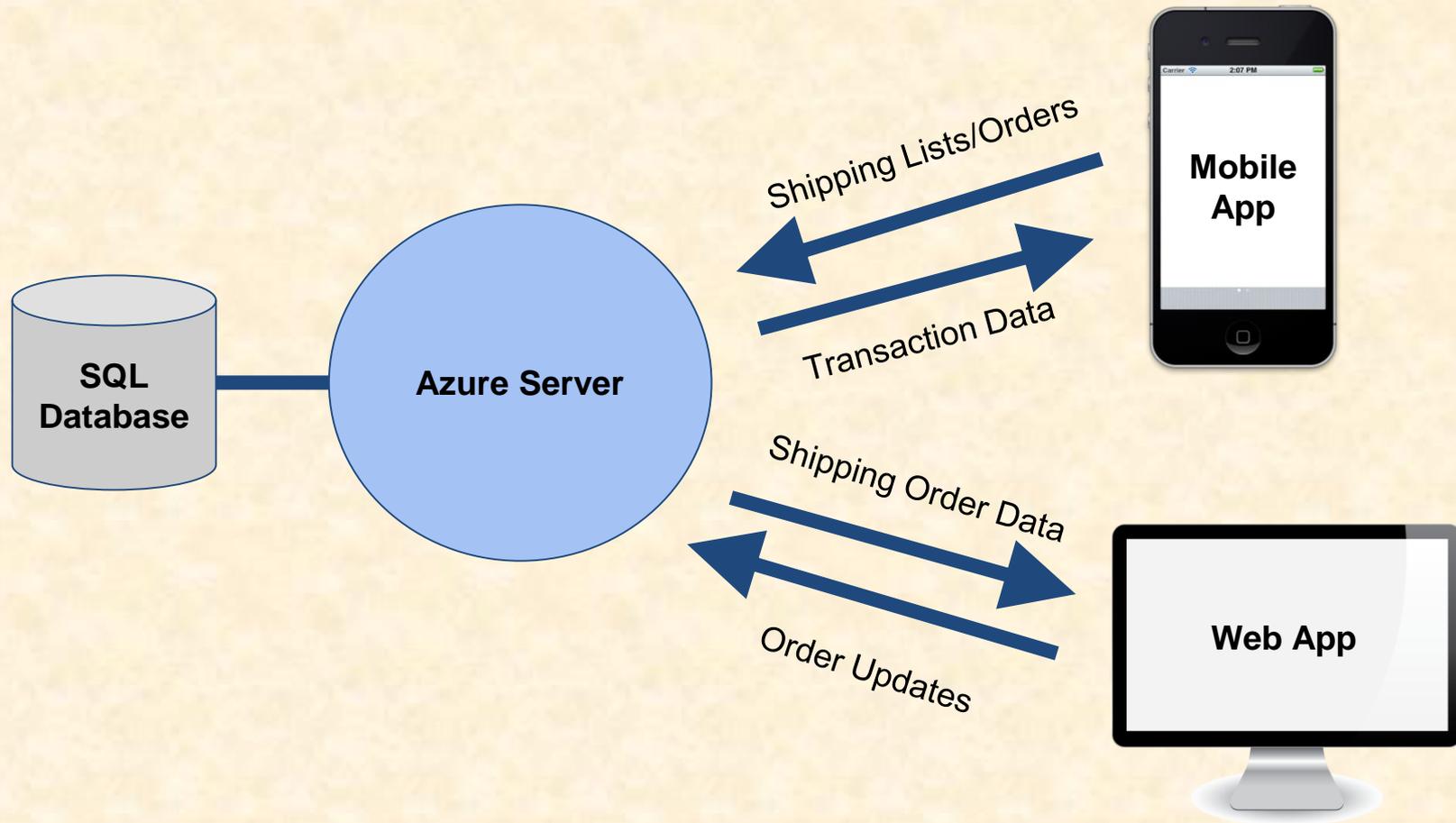
*From Students...  
...to Professionals*

# Project Overview

- Create a personalized shopping list based on a customer's previous purchases
  - Editable with add and delete item buttons
- Provide an opt-in shipping service that will deliver items directly to customers homes
  - Suspend and resume feature
- Design a web application that provides back end administrative functionalities for Meijer employees



# System Architecture



# Shopping List Algorithm

- Currently returns any item the user has bought more than once on a weekly basis from the current day
- Organize data into dictionary with product as key and a list of transactions where that product was purchased as value
- Using this dictionary to break the data into weekly, monthly, and yearly patterns
  - Put together list based on these patterns and the current date



# Web Application - Order History

Meijer Web App

Order History

Register

Log in

## Order History

[Create New \(Development Only\)](#)

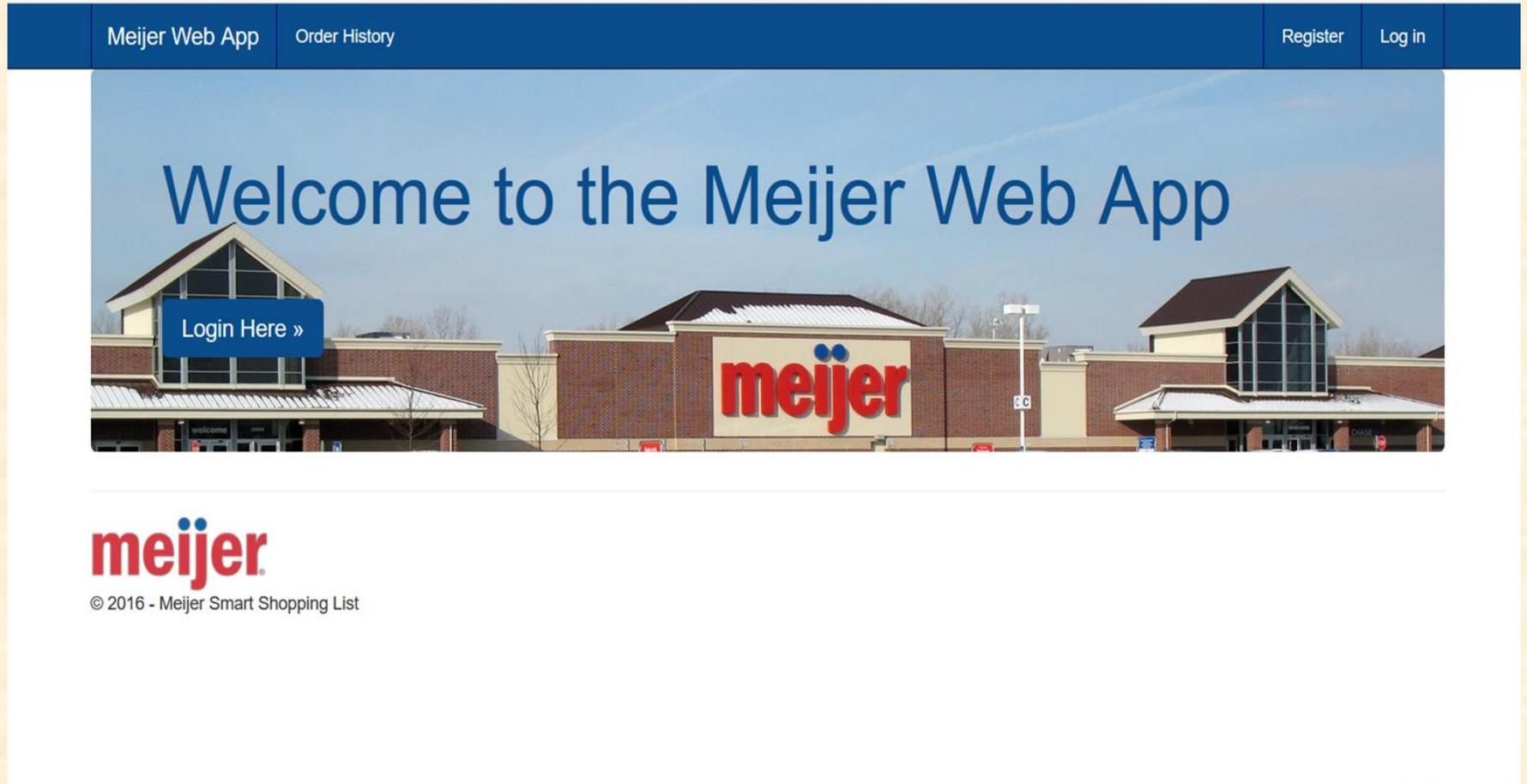
id	Store_Id	Customer_Id	date_received	date_completed	Status	
8	23	1	10/9/2016 12:00:00 AM	10/10/2016 12:00:00 AM	Pending ▾	<a href="#">Details</a>
9	2	1111	10/9/2016 6:00:00 AM	10/10/2016 6:00:00 AM	Complete ▾	<a href="#">Details</a>
10	1235	2367	10/12/2016 12:00:00 AM	10/15/2016 12:00:00 AM	Pending ▾	<a href="#">Details</a>



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# Web Application - Home Page



# Web Application - Order Details

Meijer Web App

Order History

Register

Log in

## Details

Order

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<b>Store_Id</b>	23
<b>Customer_Id</b>	1
<b>FirstName</b>	
<b>LastName</b>	
<b>Address</b>	
<b>City</b>	
<b>Email</b>	
<b>date_received</b>	10/9/2016 12:00:00 AM
<b>date_completed</b>	10/10/2016 12:00:00 AM
<b>Status</b>	Completed

[Edit](#) | [Back to List](#)



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# Web Application - Edit Order

Meijer Web App   Order History   Register   Log in

## Edit Order

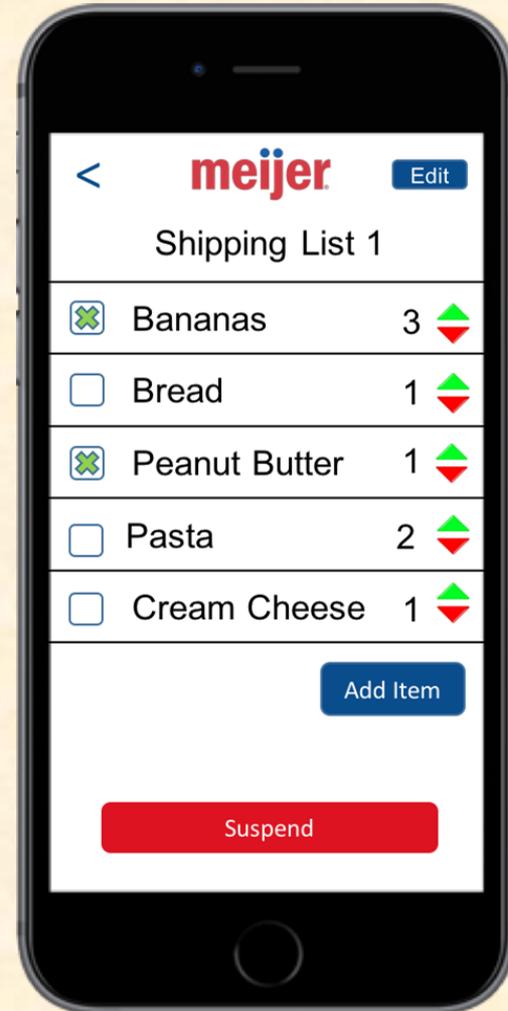
Store_Id	<input type="text" value="23"/>
Customer_Id	<input type="text" value="1"/>
date_received	<input type="text" value="10/9/2016 12:00:00 AM"/>
date_completed	<input type="text" value="10/10/2016 12:00:00 AM"/>
Status	<input type="text" value="Completed"/>

[Back to List](#)

  
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# Mobile Application



# What's left to do?

- Mobile Application
  - Optimize the shopping list algorithm
  - Create shopping and shipping list manager page
  - Shipping Order specification page
- Web Application
  - Add more information to order detail page
    - Customer Information
    - Items ordered
  - Implement the search bar on order history page



# Questions?

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