

MICHIGAN STATE
UNIVERSITY

Alpha Presentation

Intelligent Shopping List

The Capstone Experience

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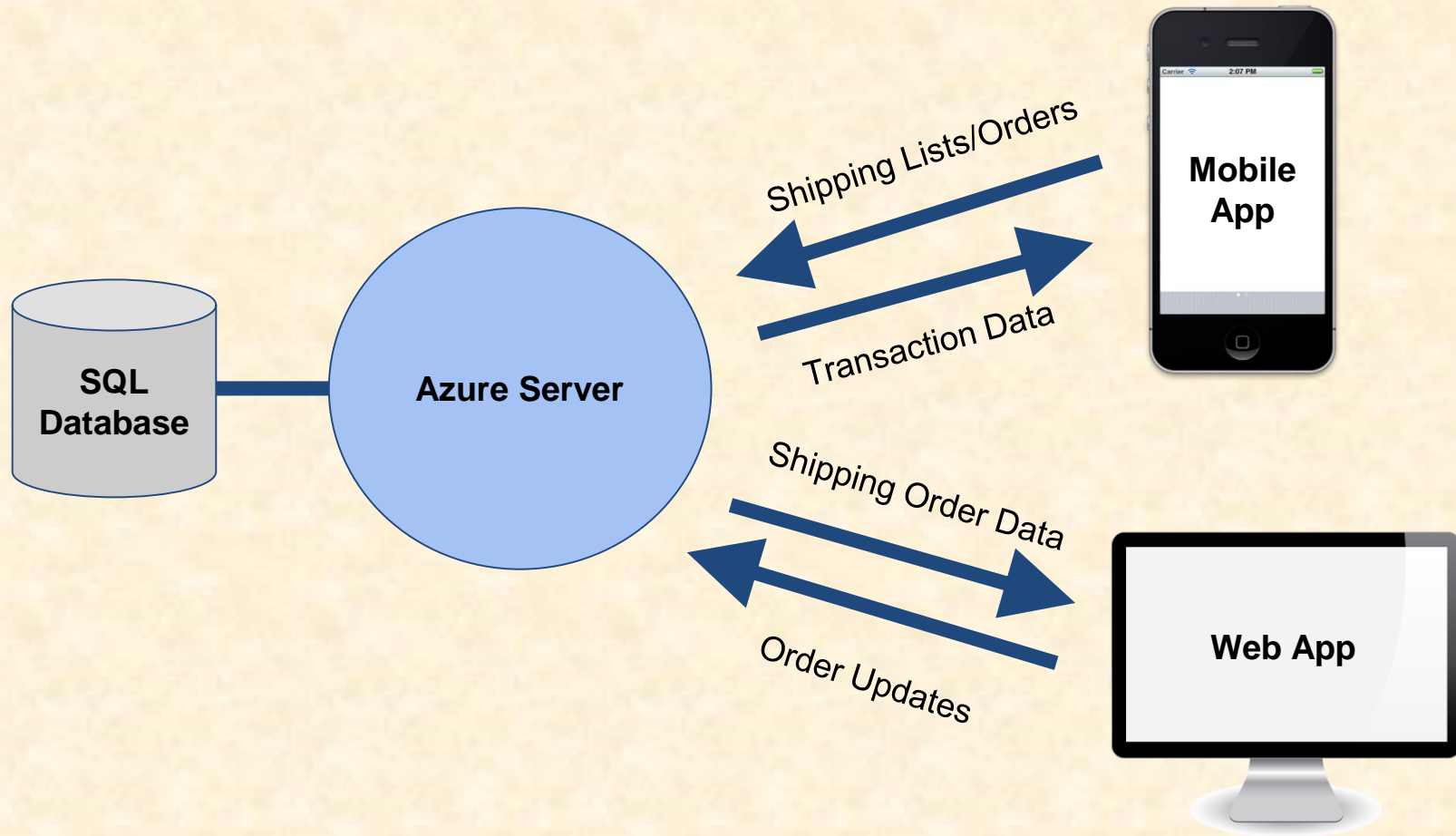
From Students...
...to Professionals

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

Order History

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

Find an order

Search

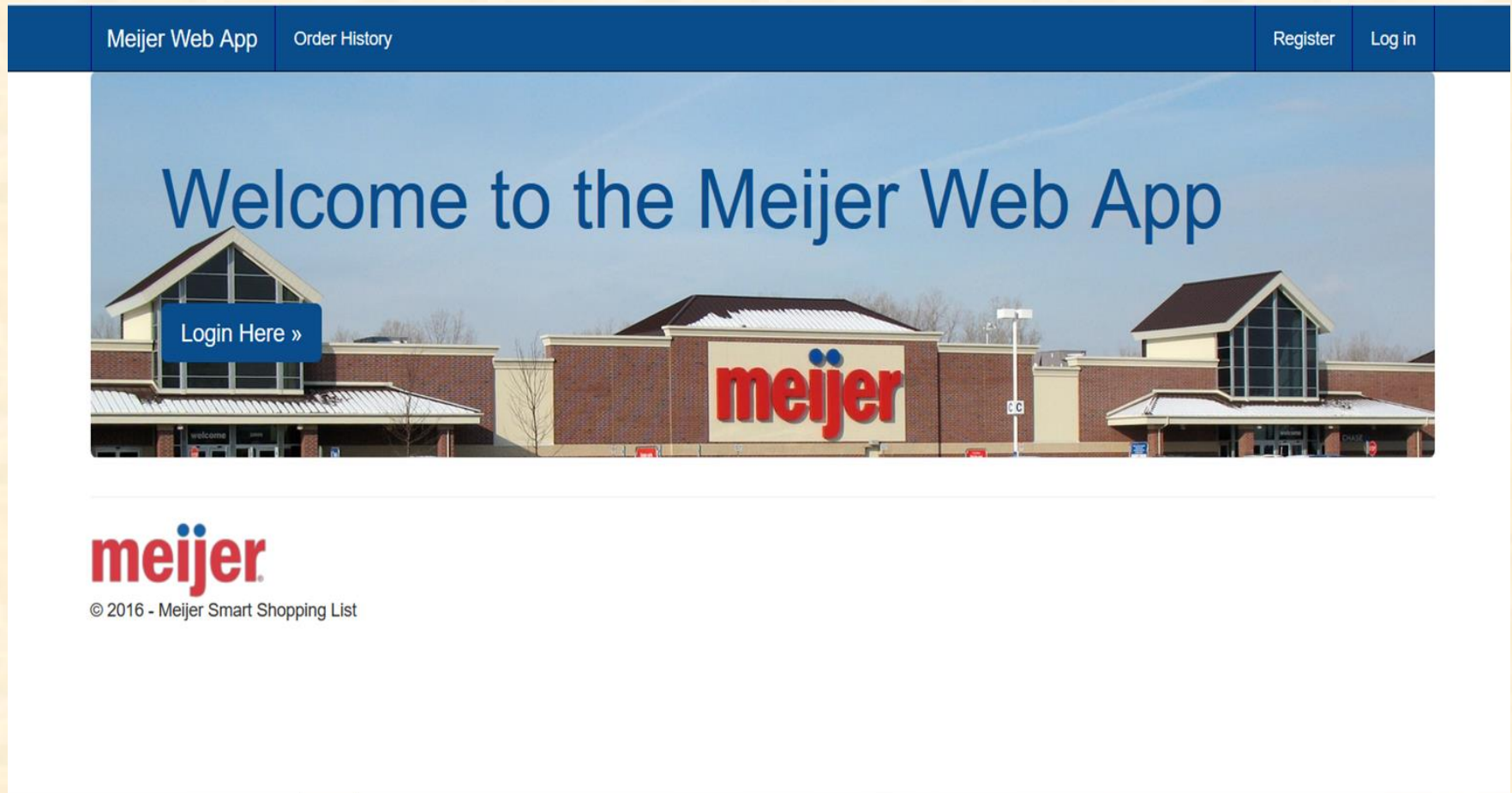
id	Store_Id	Customer_Id	date_received	date_completed	Status	
8	23	1	10/9/2016 12:00:00 AM	10/10/2016 12:00:00 AM	Pending ▾	Details
9	2	1111	10/9/2016 6:00:00 AM	10/10/2016 6:00:00 AM	Complete ▾	Details
10	1235	2367	10/12/2016 12:00:00 AM	10/15/2016 12:00:00 AM	Pending ▾	Details



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Web Application - Home Page



Web Application - Order Details


Meijer Web App	Order History	Register	Log in
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Details

Order

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

23

Customer_Id

1

date_received

10/9/2016 12:00:00 AM

date_completed


10/10/2016 12:00:00 AM

Status

Completed

Save

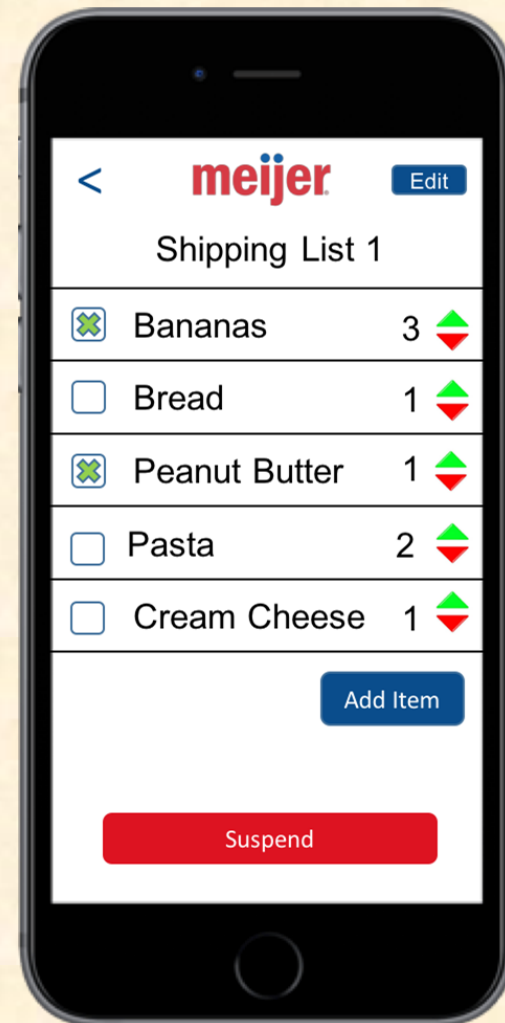
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Mobile Application



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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