

**MICHIGAN STATE**  
**UNIVERSITY**

# Beta Presentation

## Online Customer Experience With Meijer Branded Products

### The Capstone Experience

Team Meijer

Aidan Baird

Alex Beck

Jordan Jones

Christopher Kocher

Hamil Viray

Department of Computer Science and Engineering  
Michigan State University

Spring 2025



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

# Project Overview

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1. Expanded product catalog – Integrates thousands of Meijer-owned brand products.
2. In-Store iPad App – Allows Team Members to manage and fulfill online pickup orders.
3. Admin Promotion Customization – Allow Meijer Team Members to modify campaigns, promotions, and coupons.
4. Admin Order Dashboard – Functionality for admins to assign and manage orders.



# Team Member's Technical Tasks

## Technical Tasks Assigned

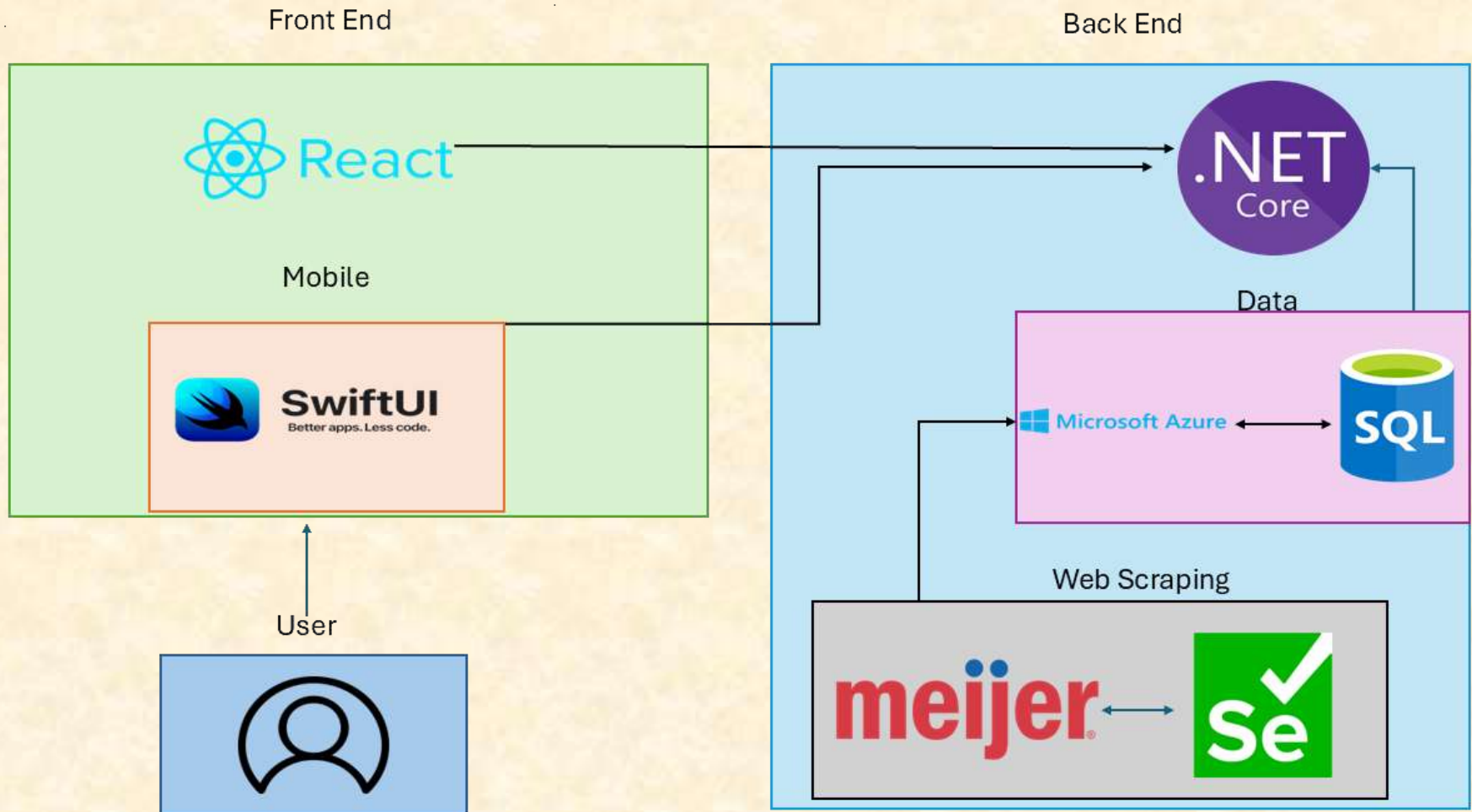
- Jordan Jones
  - Created APIs for Coupons, Promotions, and Campaigns
  - Created Coupons, Promotions, and Campaigns and pages
  - Created Web pages for Boundless Acres and Fire and Feast
  - Displayed active promotions for each Brand on the Web App
  - Displayed Active campaigns on the Web App and Coupons on order checkout. Also created admin web page.
- Hamil Viray
  - Everything database and restored web app functionality
  - Order APIs and auto assigning orders
  - Pickup times and connecting orders to database
  - Scraped products for Fire & Feast and Boundless Acres
- Aidan Baird
  - Mobile App UI + frontend
  - Created admin sign page for web app and mobile app
  - Created team member APIs and login API
  - Searching functionality for admins in admin dashboard in mobile
- Aleksei Beck
  - Mobile App login functionality
  - Admin Order Dashboard UI + frontend
  - Added time filters, search bar, order assigning and managing interface, and order pickup time warnings to dashboard UI
- Christopher Kocher
  - Mobile backend and database integration
  - Split order and smart assign functionality
  - Barcode scanning functionality

## Technical Tasks Completed

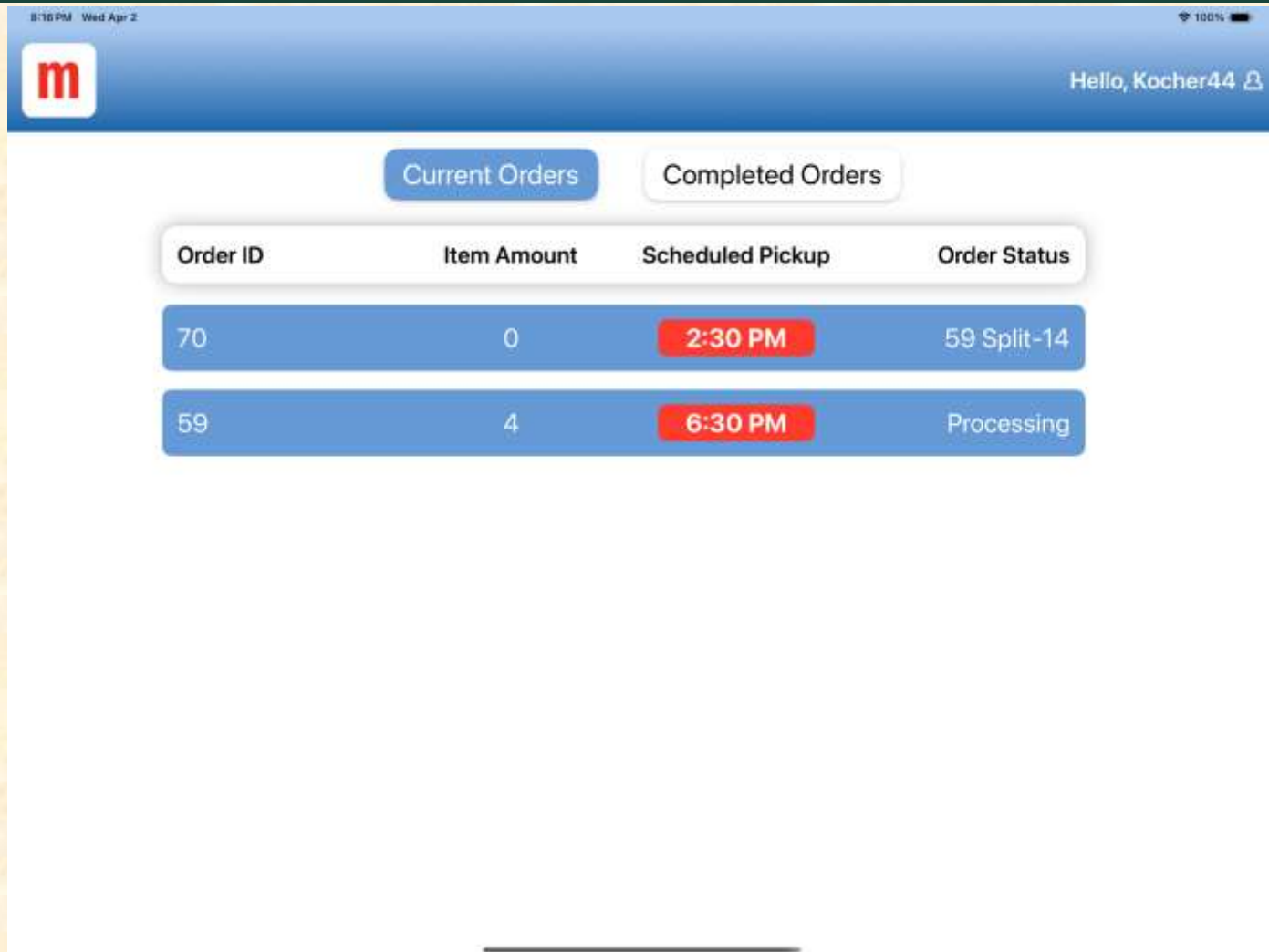
- Jordan Jones
  - Created APIs for Coupons, Promotions, and Campaigns
  - Created Coupons, Promotions, and Campaigns for the Web App
  - Created Web pages for Boundless Acres and Fire and Feast
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# System Architecture



# Team Member App View

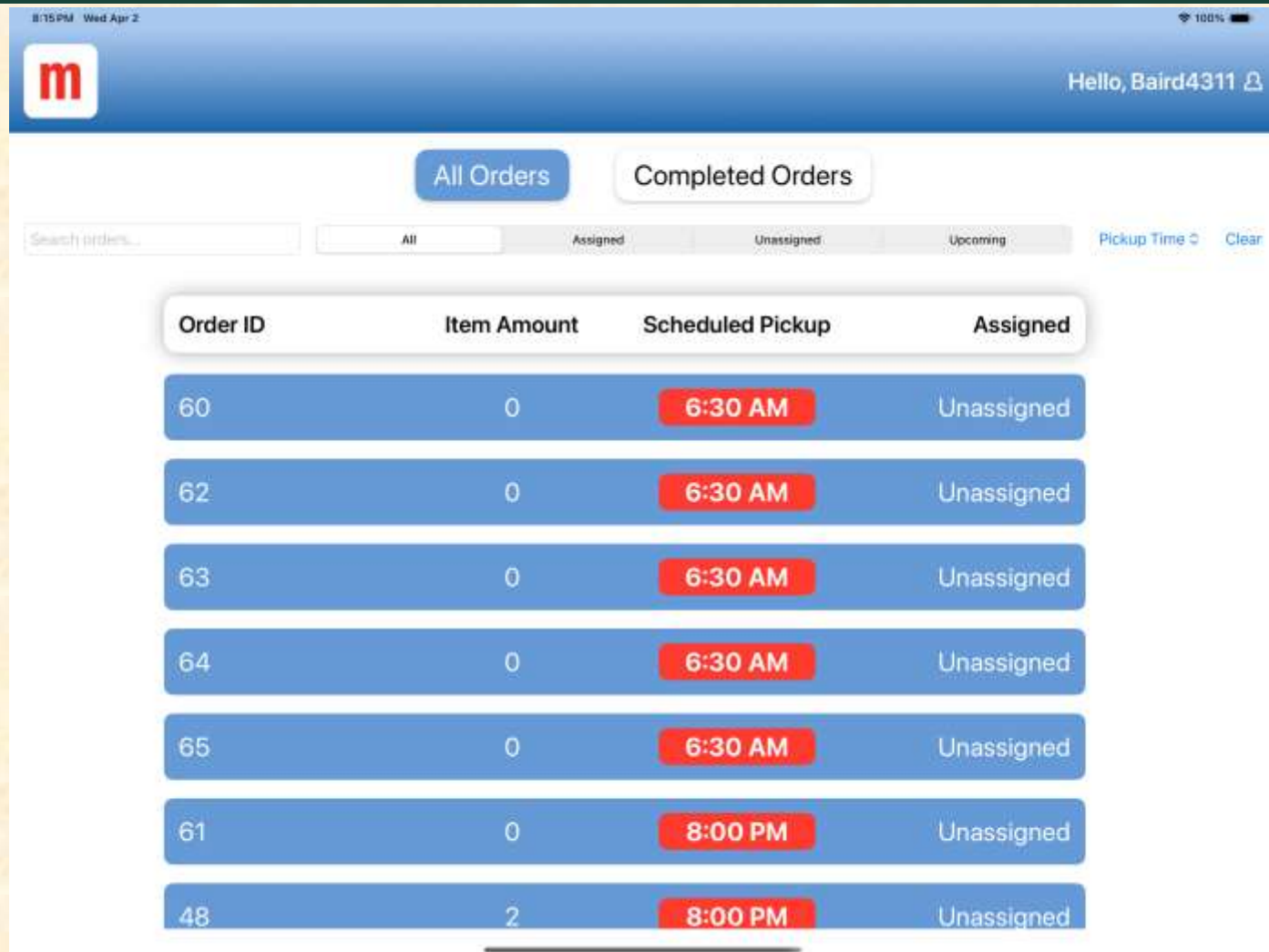


The screenshot displays a mobile application interface for a team member. At the top, a blue header bar contains the Meijer logo on the left and the text "Hello, Kocher44" on the right. Below the header, there are two tabs: "Current Orders" (active) and "Completed Orders". The main content area shows a table of current orders with four columns: Order ID, Item Amount, Scheduled Pickup, and Order Status. Two orders are listed: Order ID 70 with an amount of 0 and a pickup time of 2:30 PM, and Order ID 59 with an amount of 4 and a pickup time of 6:30 PM. The status for order 59 is "Processing".

Order ID	Item Amount	Scheduled Pickup	Order Status
70	0	2:30 PM	59 Split-14
59	4	6:30 PM	Processing



# Admin App View



The screenshot displays the Admin App interface. At the top, there's a status bar with the time 11:15 PM, date Wed Apr 2, and battery level 100%. Below this is a blue header with a red 'm' logo on the left and the text 'Hello, Baird4311' with a user icon on the right. The main content area has two tabs: 'All Orders' (selected) and 'Completed Orders'. Below the tabs is a search bar labeled 'Search orders...' and a filter section with buttons for 'All', 'Assigned', 'Unassigned', and 'Upcoming'. To the right of the filter buttons are links for 'Pickup Time' and 'Clear'. The table below has four columns: 'Order ID', 'Item Amount', 'Scheduled Pickup', and 'Assigned'. It lists seven orders with IDs 60, 62, 63, 64, 65, 61, and 48. Orders 60 through 65 have an item amount of 0 and a scheduled pickup of 6:30 AM. Order 61 has an item amount of 0 and a scheduled pickup of 8:00 PM. Order 48 has an item amount of 2 and a scheduled pickup of 8:00 PM. All orders are currently 'Unassigned'.

Order ID	Item Amount	Scheduled Pickup	Assigned
60	0	6:30 AM	Unassigned
62	0	6:30 AM	Unassigned
63	0	6:30 AM	Unassigned
64	0	6:30 AM	Unassigned
65	0	6:30 AM	Unassigned
61	0	8:00 PM	Unassigned
48	2	8:00 PM	Unassigned





# Order Dashboard

The screenshot shows a web browser displaying the Meijer Order Dashboard. The browser's address bar shows the URL `localhost:3000/Dashboard`. The Meijer logo is in the top left, and a search bar is in the top center. A navigation bar at the top contains links for Admin View, Home, Campaigns, Promotions, Coupons, and Dashboard. The main heading is "Order Dashboard". Below this is a tabbed interface with four tabs: "Current Orders" (selected), "Upcoming Orders", "Completed Orders", and "Team Members". Under the "Current Orders" tab, there is a search bar labeled "Search by Order ID, Date (MM/DD/YYYY), or Time" and a dropdown menu set to "Today's Orders". A table of orders is displayed below, with columns for Order ID, Items, Pickup Date, Pickup Time, and Status. The table contains six rows of data, all with a status of "Unassigned".

Order ID	Items	Pickup Date	Pickup Time	Status
55	0	04/02/2025	1:45 AM	Unassigned
56	0	04/02/2025	2:00 AM	Unassigned
57	0	04/02/2025	5:54 AM	Unassigned
58	0	04/02/2025	6:05 AM	Unassigned
50	1	04/02/2025	9:00 AM	Unassigned
51	1	04/02/2025	2:00 PM	Unassigned



# Customer Checkout View

The screenshot displays the Meijer website's checkout interface. The browser's address bar shows 'localhost:3000/CartPage'. The page is divided into three main sections: 'Your Cart', 'Rewards', and 'Order Summary'.

**Your Cart:** This section lists three items, each with a product image, name, price, and quantity.

Item	Price	Quantity
Frederiks Kettle Chips Original 8oz	\$3.29	1
Frederiks Kettle Chips Jalapeno 8oz	\$3.29	1
Frederiks Kettle Chips Salt And Vinegar 8oz	\$3.29	1

**Rewards:** This section features the Meijer logo, the user's points balance, and a message about a donation.

mPerks Points: 240  
Thanks to you, \$6.58 has been donated to [Simply Give](#).

Below this, there are three columns of time slots for delivery or pickup, each with a radio button for selection.

Morning	Afternoon	Night
<input type="radio"/> 09:00 AM	<input type="radio"/> 12:00 PM	<input type="radio"/> 05:00 PM
<input type="radio"/> 09:30 AM	<input type="radio"/> 12:30 PM	<input type="radio"/> 05:30 PM
<input type="radio"/> 10:00 AM	<input type="radio"/> 01:00 PM	<input type="radio"/> 06:00 PM
<input type="radio"/> 10:30 AM	<input type="radio"/> 01:30 PM	<input type="radio"/> 06:30 PM
<input type="radio"/> 11:00 AM	<input type="radio"/> 02:00 PM	<input type="radio"/> 07:00 PM
<input type="radio"/> 11:30 AM	<input type="radio"/> 02:30 PM	<input type="radio"/> 07:30 PM
	<input type="radio"/> 03:00 PM	<input type="radio"/> 08:00 PM
	<input type="radio"/> 03:30 PM	
	<input type="radio"/> 04:00 PM	
	<input type="radio"/> 04:30 PM	

**Order Summary:** This section provides a breakdown of the order costs and a final total.

Item Total: \$9.87 Tax: \$0.59 Tax: \$0.59  
Subtotal \$10.46  
Total Savings: -\$0.00  
Estimated Total: \$10.46

At the bottom of the Order Summary section, there are two buttons: 'Apply Coupons' and 'Checkout'.





# What's left to do?

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- Stretch Goals
  - Clean up product database
- Other Tasks
  - Update UI for Mobile app
  - Update UI for Web App
  - Minor bug fixes

# Questions?

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