

# **CSP 584 - ENTERPRISE WEB APPLICATIONS**

**FALL 2021**

***GROCERY HUB***

***12/4/2021***

## *Authors*

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## **OUTLINE**

### **1) User Account/Profile/Transaction management & SQL/NoSQL DB**

- 1.The CSR Agent can create new customer account.**
- 2.The Store Manager shall be able to Add/Delete/Update grocery products.**
- 3.The CSR Agent shall be able to Add/Delete/Update customer orders.**
- 4.The customer must be able to create an account online.**
- 5.The customer must be able to purchase an grocery product online, check the status of the order, or cancel the order.**
- 6.The customer shall pay using a credit card online in the checkout page.**
- 7.Some of the grocery products shall have retailer special-discounts.**
- 8.Some of the grocery products shall have rebates.**
- 9.Customer shall be able to shop online to Reserve one or multiple items in the same session from the grocery hub online site.**
- 10.In the same session, the customer must be able to add or remove items from the shopping cart.**
- 11.When the customer chooses to check out:**
  - a) The customer will have personal information fetched from profile for shipping details.**
  - b) The customer can change/update shipping information.**
  - c) The customer can opt for Delivery or Pickup.**
    - a) In delivery he can choose his saved address**
    - b) In pickup he will be provided with store details and google map location using near me ( populated with help of yelp in real time )**
- 12.The customer will be provided with a confirmation number and a Reserve date (2 weeks after the order date) that the customer can use to cancel an order using the order id.**
- 13.MySQL shall be used to store all accounts login information.**
- 14.MySQL shall be used to store All Customers transactions/orders.**

### **2) Reviews & MongoDB**

- 1.All customers shall able to write, submit, view review for any grocery product online which is stored in MongoDB**

### **3) Analytics & Visual Reports**

- 1.Under the Inventory link, the store manager shall be able to:**
  - a) Generate a table of all grocery products and how many items of every product currently available in the Site.**
  - b) Generate a Bar Chart that shows the grocery product names and the total number of items available for every category.**
  - c) Generate a table of all grocery product currently on sale.**
  - d) Generate a table of all grocery product currently that have manufacturer**

**rebates.**

**2.Under the Sales Report link, the store manager shall be able to:**

**a) Generate a table of all grocery products sold and how many items of every grocery products sold number of items sold, and total sales of every product sold.**

**b) Generate a Bar Chart that shows the grocery product names and the total sales for every grocery products.**

**c) Generate a table of total daily sales transactions; that is, you list the dates and total sales for every day-date.**

**3.DATA ANALYTICS: for store manager to view category wise review count for past day, past week, past month, past year**

**( used PIE-Chart for visualisation )**

**4) Auto-Complete Search feature**

**1.Usage of AutoComplete Feature for all the product in the Database. ( Present and Working Everywhere )**

**5) Google MAPS - Near ME search feature**

**1.On home page in navbar section, user is provided with "Store Locator" feature with zipcode input , map and store details markers.**

**2.In Order pickup he will be provided with store details and google map location using near me ( populated with help of yelp in realtime )**

**6) Knowledge Graph Searches & Neo4J**

**1. Get the number of transactions that were NOT delivered on time for every Delivery Zip Code**

**2. Get the number of disputed transactions and the list of customer names for these disputed transactions for Delivery Zip Code**

**3. Get the number of disputed transactions for EVERY CUSTOMER that has more than one disputed transaction**

**4. Get the top 3 customers that reported the maximum number of returned orders**

**5. Get the number of returned orders and got review rating 1 for every product category in every Delivery Zip Code**

**7) Twitter matches**

**1.Usage of Node Script to connect to twitter API to retrieve data and match with any grocery product names in the DB to display on the Home screen for any Deals.**

**8) Recommender**

**1. Used Recombee Platform for recommending products.**

**2. Based on the history of the user purchases and after the user makes a purchase, your enterprise web application, shall make three product recommendations for the logged in user.**

## Screenshots:

\*Application has different types of grocery product and different categories of grocery for each type.

The screenshot shows a web browser window for 'Grocery hub' at localhost:3000. The page features a header with a search bar, contact information, and navigation links for categories like Fresh Produce, Dairy & Baked Foods, Snacks & Branded Foods, Beverages, Eggs & meat, Home Improvement, Baby Products, and Show Tweets. A banner highlights 'GREAT PRICES' and 'Fruits & vegetables' with icons for Farm fresh, Clean & hygienic, and Safe. Below the banner is a large image of various fruits and vegetables. The main content area displays 'Product Categories' with four items: 'Bib - Car Printed' (\$2.65), 'Cotton Cosmetic Balls' (\$3.08), 'Premium Baby Wet Wipes With Aloe Ver...' (\$2.27), and 'Baby Happy Tissues' (\$3.55). Each item has a thumbnail image, name, price, and a 'Reviews' link.

Product	Price	Reviews
Bib - Car Printed	\$ 2.65	Reviews
Cotton Cosmetic Balls	\$ 3.08	Reviews
Premium Baby Wet Wipes With Aloe Ver...	\$ 2.27	Reviews
Baby Happy Tissues	\$ 3.55	Reviews

## The CSR Agent can create new customer account.

The screenshot shows a web browser window for 'localhost:3000'. At the top, there's a navigation bar with links like 'Hello,Prash', 'Admin Panel', 'Logout', and 'Cart (0)'. Below the navigation bar, there are four buttons: 'Create a user' (highlighted in yellow), 'Place an Order', 'Cancel an Order', and 'Modify Order'. The main content area contains a form for creating a new user. The fields and their values are:

Username	divya
First Name	Divya
Last Name	Vani
Password	.....
Shipping Address	400E 33RD St APT 2009 Chicago IL 60616
Contact	3123567885

At the bottom right of the form is a yellow 'Create' button.



The screenshot shows a MySQL command-line interface. The command entered is:

```
2
3 • select * from users where username='divya';
4
5
```

The result grid shows the following data:

	username	password	role	firstname	lastname	zipcode	city	state	ad1	ad2	contact
▶	divya	divya	cust	Divya	Vani	60616	Chicago	IL	400E 33RD St	APT 2009	3123567885
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

**The CSR Agent shall be able to Add/Delete/Update customer orders.**

**Add:**

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localhost:3000

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Grocery hub Search a Product Hello,Prash Admin Panel Logout Cart (0)

Create a user Place an Order Cancel an Order Modify Order

Select Product Category Fresh Produce

Select Product Mango Leaf Thorana

**Build Order**

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localhost:3000

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Grocery hub Search a Product Hello,Prash

Create a user Place OK Order

localhost:3000 says

Item added to cart for building new order. Head to your cart to select Customer.

OK

Select Product Category Fresh Produce

Select Product Mango Leaf Thorana

**Build Order**

**Delete Order:**

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localhost:3000

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**Grocery hub** Search a Product Hello,Prash Admin Panel Logout

Create a user Place an Order Cancel an Order Modify Order

Select a username

Select OrderId

**Delete Order**

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localhost:3000

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**Grocery hub** Search a Product Hello,Prash Admin

Create a user Place an Order Cancel an Order

order deleted successfully

Select a username

Select OrderId

**Delete Order**

**2. The Store Manager shall be able to Add/Delete/Update grocery products.**

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localhost:3000

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Grocery hub Search a Product Hello,Vikas Admin Panel Logout

Add Product Delete Product Update Product Inventory Details Sales Report

Brand: Fresho  
Product: USA Pear, Organically Grown  
Quantity: 1 kg  
Selling Price: 2.725  
Retail Price: 3.40625  
Rebate: 0  
Stock: 100  
Category: Fresh Produce  
Gallery: <https://www.bigbasket.com/m>

Add Product



Brand: Fresho  
Product: USA Pear, Organically Grown  
Quantity: 1 kg  
Selling Price: 2.725  
Retail Price: 3.40625  
Rebate: 0  
Stock: 100  
Category: Fresh Produce  
Gallery: <https://www.bigbasket.com/m>

Add Product

The customer must be able to create an account online.

The screenshot shows a web browser window with the URL `localhost:3000` in the address bar. The page title is "Grocery hub". A search bar at the top right contains the placeholder text "Search a Product". The main content area is a registration form titled "Register". The form fields are as follows:

- UserName:** A text input field containing the value "rashi".
- Password:** A text input field containing the value ".....".
- ZipCode:** A text input field containing the value "60617".
- Select Role:** A dropdown menu currently set to "Customer".

A large "Register" button is located at the bottom of the form.

A screenshot of a web browser showing a grocery delivery application. The header includes a logo for 'Grocery hub' and a search bar. Below the header is a navigation menu with links like 'Stores Near Me', 'Fresh Produce', 'Dairy & Baked Foods', etc. A large promotional banner in the center features a sunburst graphic and the text 'Eat, drink, and be thankful'. The browser's address bar shows 'localhost:3000'. The top of the screen also displays various system icons.

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localhost:3000

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## Grocery hub

Search a Product

Hello,Rashi My Orders Logout Cart (1)

### Shopping Cart

**Subtotal (1 Items) : \$ 2.33**

\$ 2.33 x 1 = \$ 2.33

**Butter - Pasteurised**  
\$ 2.33  
Quantity : 1 Eligible for Free Returns  
Remove Item

**Checkout**

**Products you may like to buy**

Rajma Masala

## Checkout

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## Grocery hub.com

### Review your Order

Delivery  Pickup

**Pickup Address**  
Walmart, 60628 - 3.95 Km Away

**Payment**  
Enter Credit Card

Add a gift card, promotion code, or voucher  
Enter Code

**Billing Address**  
400 E 33rd ST  
APT 209  
Chicago , 60617

**Place your order**

By placing your order, you agree to Groceryhub's terms and conditions

**Order Summary**

Total:	\$ 2.33
Shipping and handling:	\$ 1.99
<b>Order Total:</b>	<b>\$ 4.32</b>

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localhost:3000

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## Grocery hub

Search a Product

Stores Near Me Fresh Produce Dairy & Baked Foods Snacks & More

localhost:3000 says

Order placed successfully with order id #3 and it will be deliver/pickup by Sat Dec 18 2021 22:48:34 GMT-0600 (Central Standard Time)

OK

**Eat, drink, and be thankful.**

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localhost:3000

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Grocery hub Search a Product Hello,Rashi My Orders Logout Cart (0)

## My Orders

Butter - Pasteurised  
\$ 2.33  
Quantity : 1 | Eligible for Free Returns

Order Id #3  
Shipment: pickup  
Purchase Date: 2021-12-04  
Status: placed  
Store Details: Walmart 10900 S Doty Ave

Post your review here

Enter a title

Write your Review

Rating

Select

Submit

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Press Release Start a Package Delivery Business Your Orders

Advise Your Products Shipping & Policies

VISA MasterCard American Express Discover

Apple Pay Google Pay Samsung Pay VISA Checkout Venmo

Bank of America ACH Bank of America EPS Pay

## Post Reviews:

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localhost:3000

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Grocery hub Search a Product Hello,Rashi My Orders Logo

## My Orders

Butter - Pasteurised  
\$ 2.33  
Quantity : 1 | Eligible for Free Returns

Order Id #3  
Shipment: pickup  
Purchase Date: 2021-12-04  
Status: placed  
Store Details: Walmart 10900 S Doty Ave

Post your review here

Good Product

Very tasty butter

Rating

4

Submit

Nobody delivers it better x +

localhost:3000

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Grocery hub Search a Product

localhost:3000 says  
Rating & Review posted successfully!!

Hello,Rashi My Orders Logout Cart (0)

## My Orders

Butter - Pasteurised  
\$ 2.33  
Quantity : 1 Eligible for Free Returns

Order Id #3  
Shipment: pickup  
Purchase Date: 2021-12-04  
Status: placed  
Store Details: Walmart 10900 S Doty Ave

Good Product  
Very tasty butter

Rating 4

Post your review here

Submit

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Press Release Start a Package Delivery Business Your Orders

Advise Your Products Shipping & Policies



## View review:

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localhost:3000

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rashi wrote  
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Very tasty butter

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Advise Your Products Shipping & Policies



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# Update product:

The screenshot shows the 'Update Product' page of the 'Grocery hub' Admin Panel. At the top, there are navigation links: 'Add Product', 'Delete Product', 'Update Product' (which is highlighted in orange), 'Inventory Details', and 'Sales Report'. The main form has fields for 'Select Product Category' (set to 'Fresh Produce') and 'Select Product' (set to 'Apple - Ambri'). Below these are input fields for 'Brand' (Fresho), 'Product Title' (Apple - Ambri), 'Quantity' (500 g), 'Retail Price(\$)' (3.19), 'Selling Price(\$)' (2.55), 'Rebate(\$)' (0.00), 'Stock' (100), and 'Image URL' (https://www.bigbasket.com/media/uploads/p/l/1000). A preview image of a bunch of apples is shown. An 'Update Product' button is at the bottom.

Get to Know Us  
Careers  
About Grocery Hub  
Press Release

Make Money with Us  
Sell Products on Grocery Hub  
Become a Delivery Driver  
Start a Package Delivery Business  
Advise Your Products

Let Us Help You  
Covid-19  
Your Account  
Your Orders  
Shipping & Policies

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The screenshot shows the same 'Update Product' page after the update was successful. A modal dialog box in the center says 'localhost:3000 says Product updated successfully!!!' with an 'OK' button. The rest of the page remains the same, displaying the product details for an Apple product.

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Careers  
About Grocery Hub  
Press Release

Make Money with Us  
Sell Products on Grocery Hub  
Become a Delivery Driver  
Start a Package Delivery Business  
Advise Your Products

Let Us Help You  
Covid-19  
Your Account  
Your Orders  
Shipping & Policies

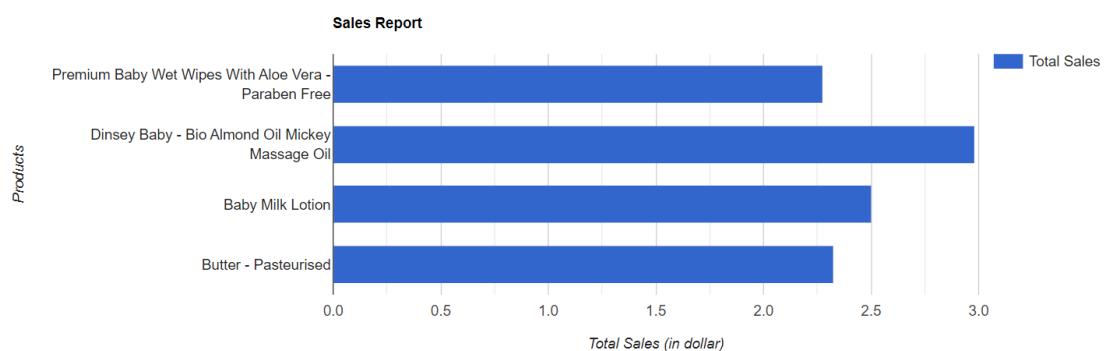
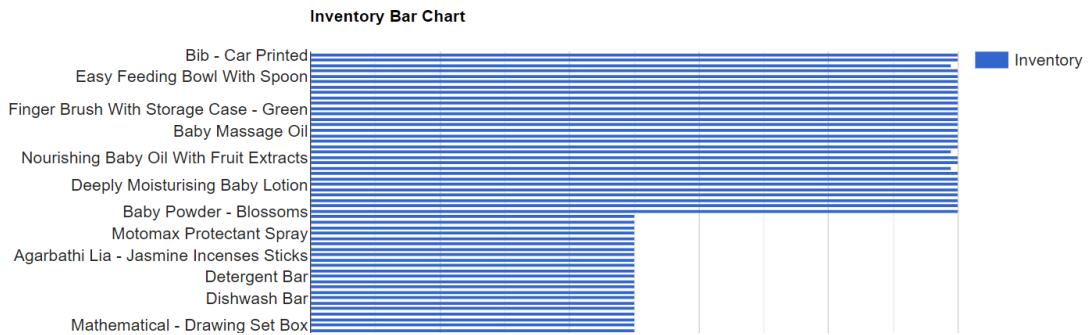
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Search a Product				Hello,Vikas	Admin Panel		Logout																																								
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Inventory Visualizations		Sales Visualizations		Rating Visualizations																																											
<b>Inventory Stock Report</b>																																															
<table border="1"> <thead> <tr> <th>S. No</th> <th>Product Name</th> <th>Product Price</th> <th>Stock</th> </tr> </thead> <tbody> <tr><td>0</td><td>Bib - Car Printed</td><td>\$ 2.65</td><td>100</td></tr> <tr><td>1</td><td>Cotton Cosmetic Balls</td><td>\$ 3.08</td><td>100</td></tr> <tr><td>2</td><td>Premium Baby Wet Wipes With Aloe Vera - Paraben Free</td><td>\$ 2.27</td><td>99</td></tr> <tr><td>3</td><td>Baby Happy Tissues</td><td>\$ 3.55</td><td>100</td></tr> <tr><td>4</td><td>Easy Feeding Bowl With Spoon</td><td>\$ 3.30</td><td>100</td></tr> <tr><td>5</td><td>Baby Water Teether For Cool Gums</td><td>\$ 3.20</td><td>100</td></tr> <tr><td>6</td><td>Baby Tumbler - Sippy</td><td>\$ 3.08</td><td>100</td></tr> <tr><td>7</td><td>Silicone Feeding Nipple/Teat Regular Neck - Size L</td><td>\$ 3.75</td><td>100</td></tr> </tbody> </table>												S. No	Product Name	Product Price	Stock	0	Bib - Car Printed	\$ 2.65	100	1	Cotton Cosmetic Balls	\$ 3.08	100	2	Premium Baby Wet Wipes With Aloe Vera - Paraben Free	\$ 2.27	99	3	Baby Happy Tissues	\$ 3.55	100	4	Easy Feeding Bowl With Spoon	\$ 3.30	100	5	Baby Water Teether For Cool Gums	\$ 3.20	100	6	Baby Tumbler - Sippy	\$ 3.08	100	7	Silicone Feeding Nipple/Teat Regular Neck - Size L	\$ 3.75	100
S. No	Product Name	Product Price	Stock																																												
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6	Baby Tumbler - Sippy	\$ 3.08	100																																												
7	Silicone Feeding Nipple/Teat Regular Neck - Size L	\$ 3.75	100																																												

[Top](#)

<b>Inventory Rebate Report</b>			
Product Id	Product Name	Price	Rebate
16	Baby Shampoo - With No Harmful Chemicals & Tear Free Formula	\$ 2.63	\$ 1.00
72	Crab - Dotted, Cleaned & Whole Cut	\$ 26.48	\$ 2.50
73	Squid	\$ 32.48	\$ 2.50
74	White Pomfret Small - Whole Cleaned, Preservative Free	\$ 19.98	\$ 2.50

<b>Inventory Onsales Report</b>			
Product Id	Product Name	Price	Discount
1	Bib - Car Printed	\$ 2.65	\$ 0.47
2	Cotton Cosmetic Balls	\$ 3.08	\$ 0.15
3	Premium Baby Wet Wipes With Aloe Vera - Paraben Free	\$ 2.27	\$ 0.85
4	Baby Happy Tissues	\$ 3.55	\$ 0.20
5	Easy Feeding Bowl With Spoon	\$ 3.30	\$ 0.57
6	Baby Water Teether For Cool Gums	\$ 3.20	\$ 0.55
7	Baby Tumbler - Sippy	\$ 3.08	\$ 0.55
9	Kid's Toothpaste - 3-5 years, Natural Strawberry Flavour, 0% Artificial	\$ 3.38	\$ 0.38
10	Kid's Toothpaste - 6-9 Years. Natural Strawberrv Mint Flavour. 0% Artificial	\$ 3.38	\$ 0.38



## Data Analytics:



## Sales Report:

The screenshot shows a web application titled "Grocery hub" at localhost:3000. The top navigation bar includes links for "Hello,Vikas", "Admin Panel", and "Logout". Below the header are five buttons: "Add Product", "Delete Product", "Update Product", "Inventory Details", and "Sales Report". The main content area displays two tables. The first table, titled "Product Name", lists four items with their prices and total sales: Premium Baby Wet Wipes With Aloe Vera - Paraben Free (\$2.27), Dinsey Baby - Bio Almond Oil Mickey Massage Oil (\$2.98), Baby Milk Lotion (\$2.50), and Butter - Pasteurised (\$2.33). The second table, titled "Purchase Date", shows a single entry for December 4, 2021, with a sold quantity of 4 and total sales of \$10.08.

Product Name	Price	Sales Quantity	Total
Premium Baby Wet Wipes With Aloe Vera - Paraben Free	\$ 2.27	1	\$ 2.27
Dinsey Baby - Bio Almond Oil Mickey Massage Oil	\$ 2.98	1	\$ 2.98
Baby Milk Lotion	\$ 2.50	1	\$ 2.50
Butter - Pasteurised	\$ 2.33	1	\$ 2.33

Purchase Date	Sold Quantity	Total Sales
2021-12-04	4	\$ 10.08

## Auto-Complete Search feature

The screenshot shows the "Grocery hub" homepage at localhost:3000. The top navigation bar includes links for "Hello,Vikas", "Admin Panel", and "Logout". The main content features a search bar with the placeholder "Sil", which has triggered an auto-complete dropdown showing suggestions: "Silicone Feeding Nipple/Teat Regular Neck - Size L" and "Silk Dairy Milk - Silk Miniatures Collection". Below the search bar is a banner for "GREAT PRICES" with a "Fruits & vegetables" section. It includes icons for "Farm fresh", "Clean & hygienic", and "Safe". A yellow button says "Order now ▶". The background of the page is filled with various fruits and vegetables. At the bottom, there is a "Deals Stream" box containing the text: "Here's an ins-pear-ational offer to make your weekend even better! Shop delicious USA pear at minimum 20% off" next to an image of several green pears. The bottom of the screen shows a Windows taskbar with various pinned icons and system status indicators.

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localhost:3000

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# Grocery hub

Silk Dairy Milk - Silk Miniatures Collection

Hello,Vikas Admin Panel Logout



Cadbury

## Silk Dairy Milk - Silk Miniatures Collection

\$ 26.50 \$ 1.50/oz

Shipping, arrives by **Sat, 18 Dec** to [60614](#)

Pickup not available at this store

Sold and Shipped by [GroceryHub.com](#)

Free 90-day return [Details](#)

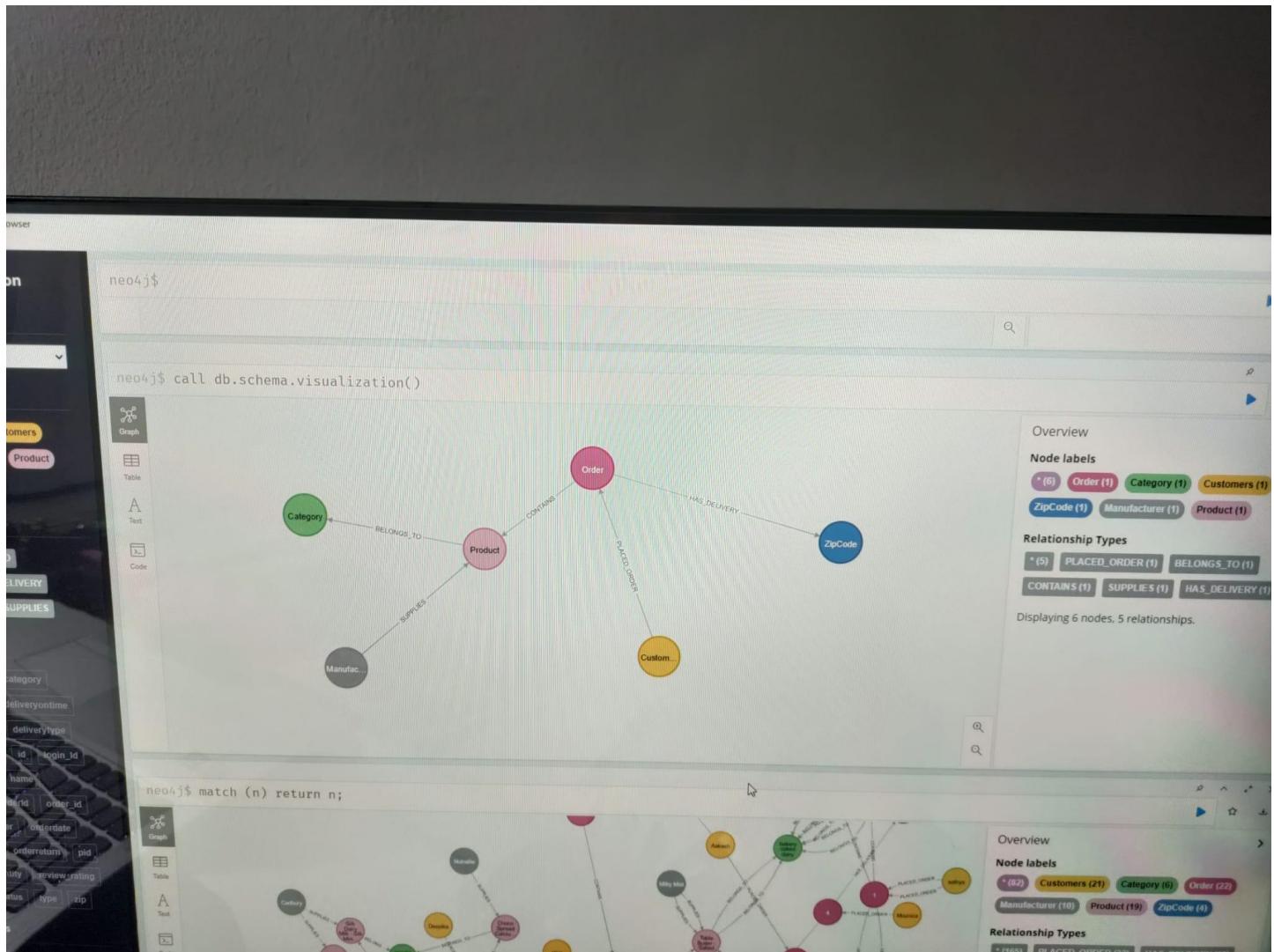
In Stock

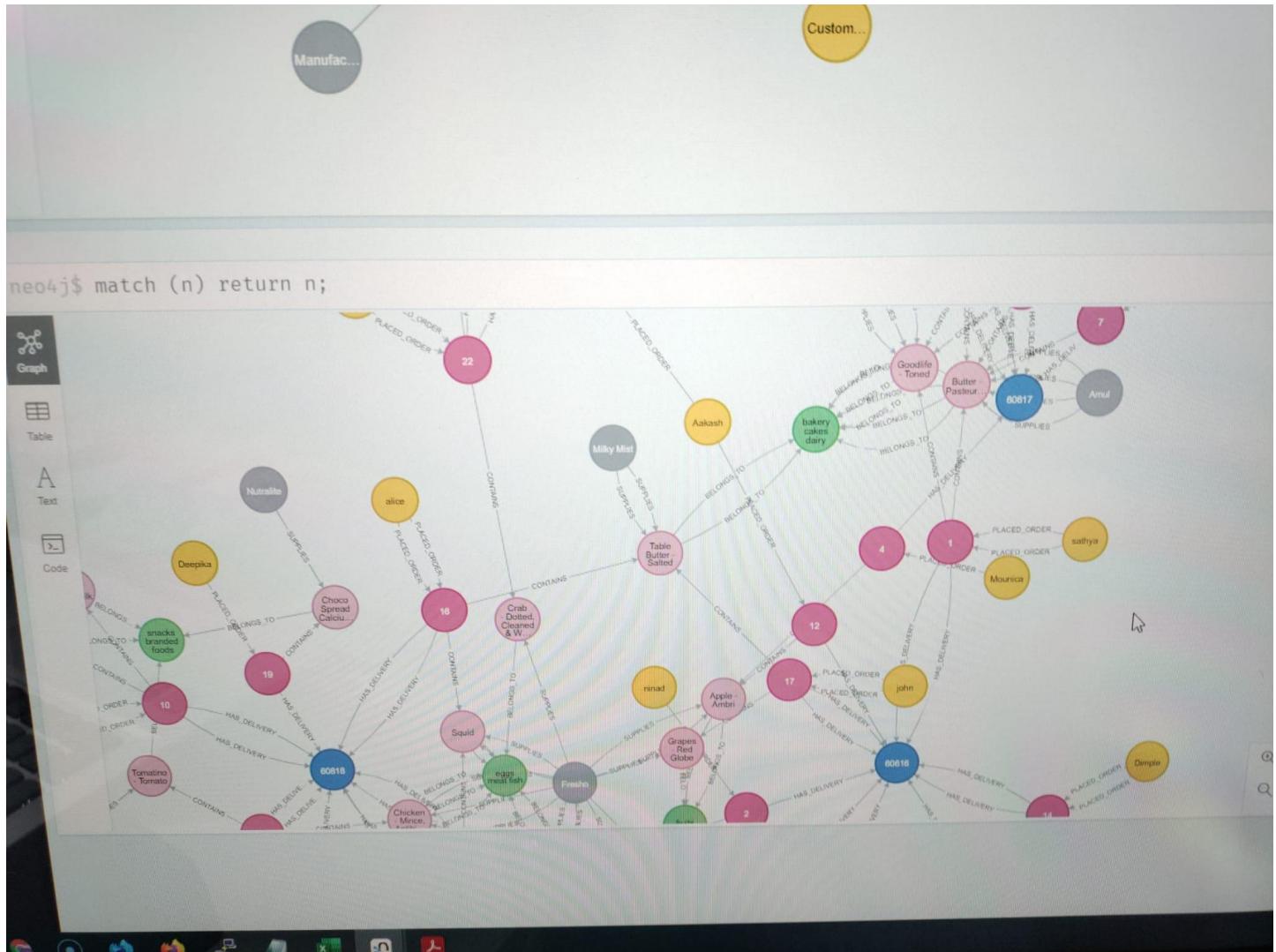
Add To Cart Buy Now

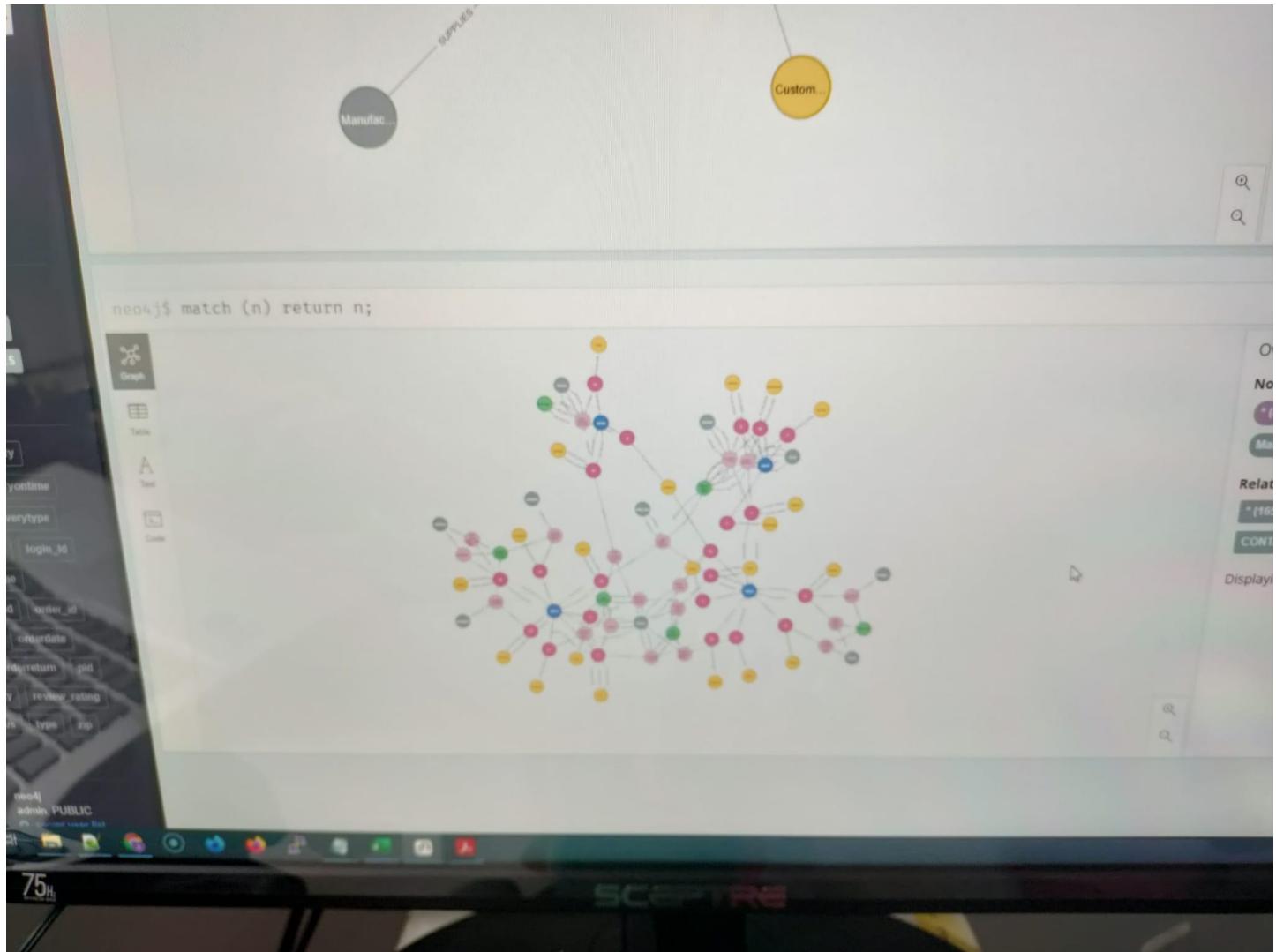
## Google MAPS - Near ME search feature:

The screenshot shows a map of Chicago with various neighborhoods labeled: WEST GARFIELD PARK, EAST GARFIELD PARK, HOMAN SQUARE, NORTH LAWNDALE, MARSHALL SQUARE, LITTLE VILLAGE, HEART OF CHICAGO, WEST LOOP, NEAR WEST SIDE, LOWER WEST SIDE, SOUTH LOOP, MUSEUM CAMPUS, NE SOUTH SIDE, CHINATOWN, BRIDGEPORT, DOUGLAS, and NEW EASTSIDE. A callout box for 'Grocery Store Details' is open at the coordinates (46-6076, S Michigan Ave), showing the name Jewel-Osco, phone number (312) 666-5495, and address 1340 S Canal St. A large blue circle highlights the area around Chinatown, with a message stating 'You are currently at zipcode : 60616'. The application interface includes a header with 'Hello,Vikas', 'Admin Panel', and 'Logout' buttons, as well as standard browser navigation and bookmark icons.

## Knowledge Graph Searches & Neo4J







## Twitter matches

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Grocery hub Search a Product Hello,Vikas Admin Panel Logout

Stores Near Me Fresh Produce Dairy & Baked Foods Snacks & Branded Foods Beverages Eggs & meat Home Improvement Baby Products Show Tweets

 Eat, drink, and be thankfuls

**Deals Stream**  
Here's an ins-pear-ational offer to make your weekend even better! Shop delicious USA pear at minimum 20% off

**Events & Announcement Stream**  
Our heartiest congratulations to Deekshitha Venkat for winning the Best of Brunch Recipe Contest!  
It's time to get cheesy with Britannia! Share with us a cheesy recipe and stand a chance to win bb gift cards!

  
USA Pear, Organically Grown  
\$ 0.07 Fresho Reviews Delete

**Tweet +**

## Recommender

You may be interested in buying	
	<a href="#">Silicone Feeding Nipple/Teat Regular Neck...</a> \$ 3.75 <a href="#">Reviews</a> <a href="#">Vauva</a> <a href="#">Delete</a>
	<a href="#">Kid's Toothpaste - 3-5 years, Natural Stra...</a> \$ 3.38 <a href="#">Reviews</a> <a href="#">Colgate</a> <a href="#">Delete</a>
	<a href="#">Kid's Toothpaste - 6-9 Years, Natural Stra...</a> \$ 3.38 <a href="#">Reviews</a> <a href="#">Colgate</a> <a href="#">Delete</a>
	<a href="#">Finger Brush With Storage Case - Green</a> \$ 3.17 <a href="#">Reviews</a> <a href="#">Mee Mee</a> <a href="#">Delete</a>

A horizontal navigation menu at the bottom of the page. It includes links for 'Get to Know Us', 'Make Money with Us', and 'Let Us Help You'. Below each link is a list of options: 'Careers', 'Sell Products on Grocery Hub', 'Covid-19'; 'About Grocery Hub', 'Become a Delivery Driver', 'Your Account'; and 'Press Release', 'Start a Package Delivery Business', 'Your Orders'. To the right of the menu are four rows of payment method icons, including Visa, Mastercard, American Express, Discover, Apple Pay, Google Pay, Samsung Pay, VISA Checkout, ACH, Bank Transfer, UPS, FedEx, and more.