

# Sprint Review: Management System (GotoGro-MRM) for Goto Grocery Inc.

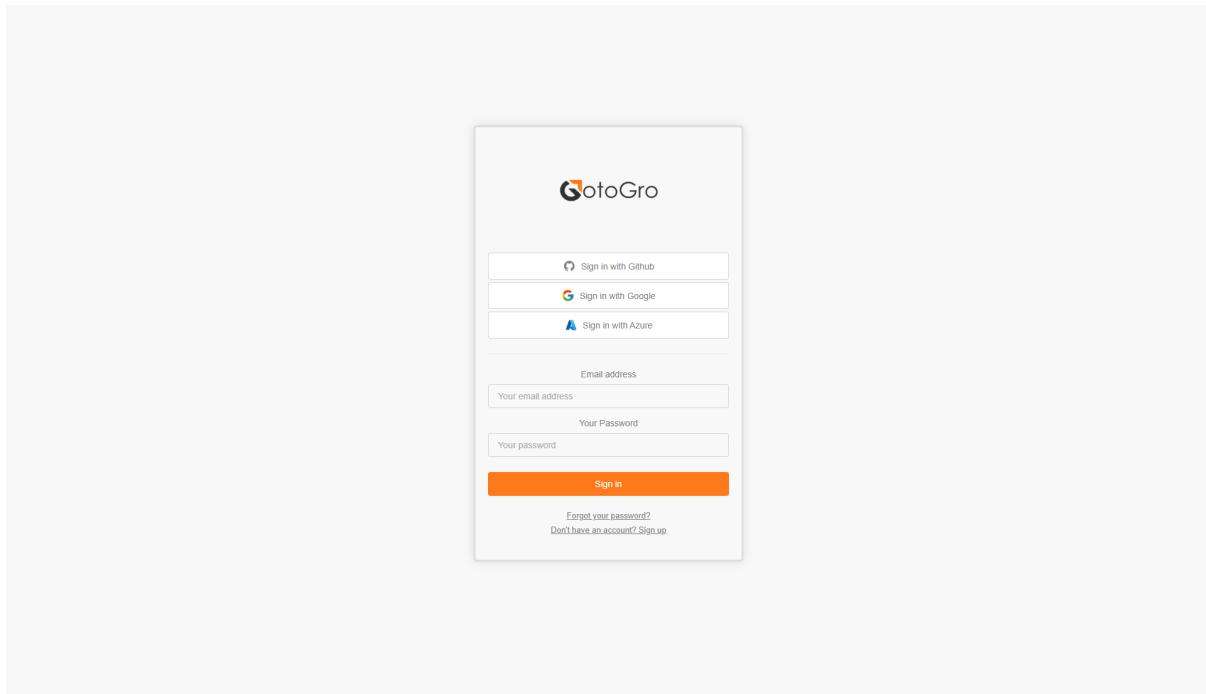
| <b>Team: MSP_CL4_T1</b>       |                  |
|-------------------------------|------------------|
| <b>Name</b>                   | <b>ID</b>        |
| <i>Enzo Peperkamp</i>         | <i>102895415</i> |
| <i>Nelchael Kenshi Turija</i> | <i>103057559</i> |
| <i>Julian Codespoti</i>       | <i>102997816</i> |
| <i>Alex Kyriacou</i>          | <i>103059830</i> |
| <i>Marella Morad</i>          | <i>103076428</i> |
| <i>Lachlan Martin</i>         | <i>103067448</i> |

# Sprint Review Completion Evidence:

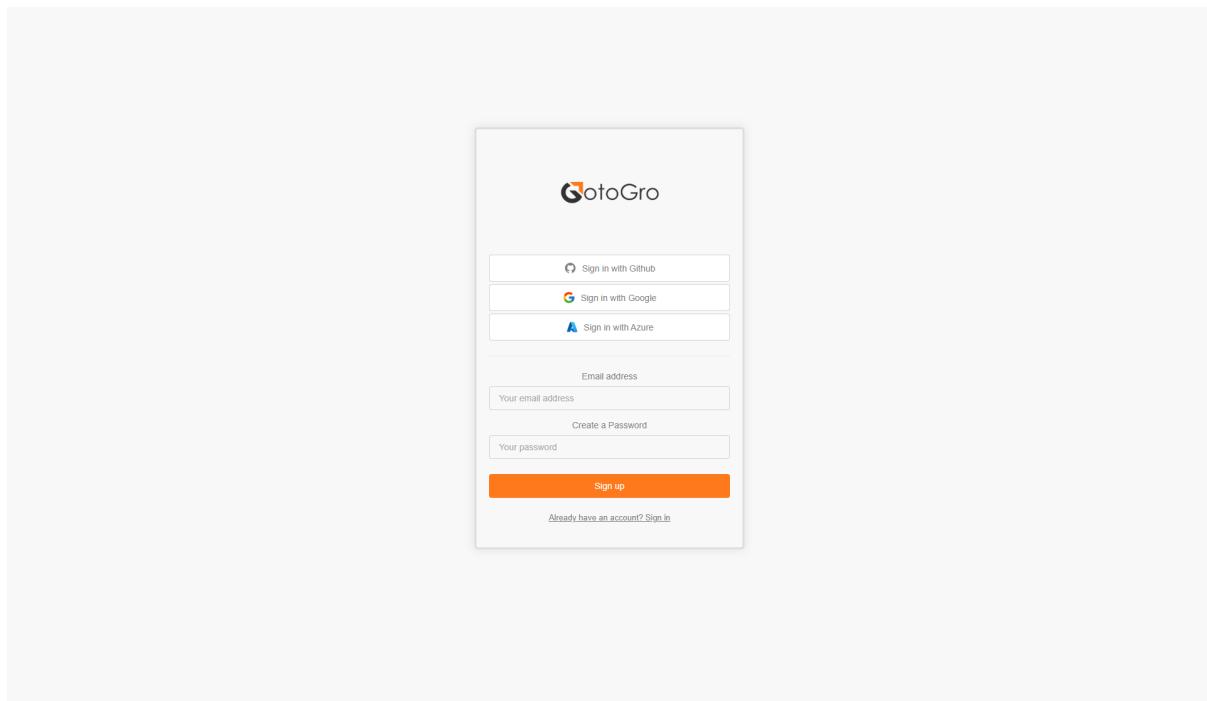
[Link to GotoGro Live Website](#)

**Screenshots from various screens:**

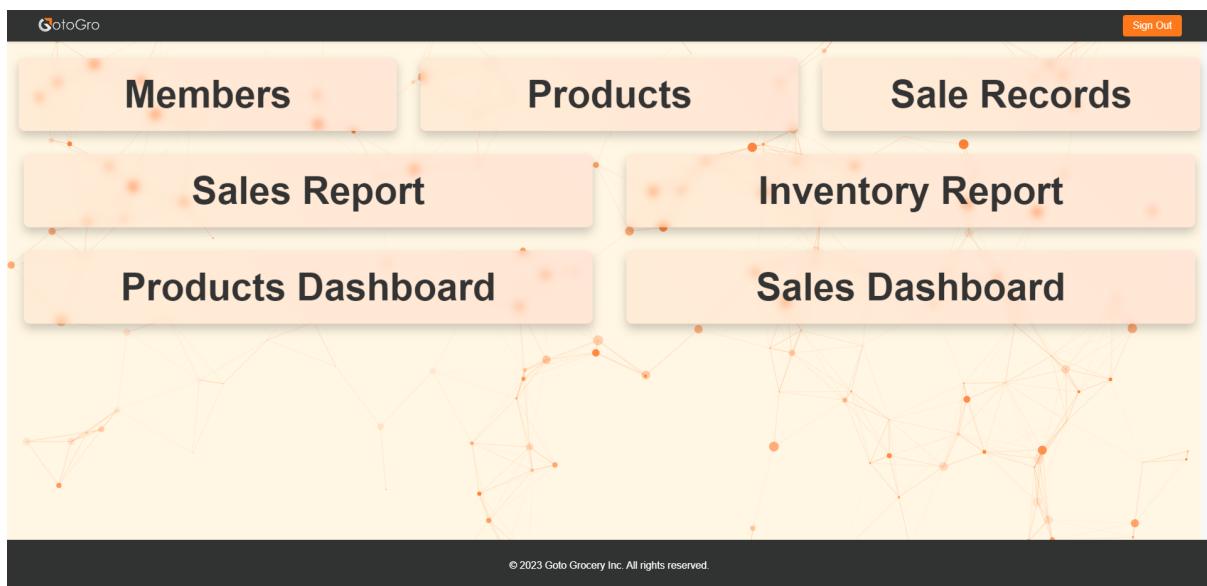
**Sign In Page:**



## Sign Up Page:



## Home Page:



## Members Home:

Includes Member Search, Adding a New Member, Editing, Deleting and Retrieving a Member.

| First Name | Last Name | Email                       | Date Joined             | Action  |
|------------|-----------|-----------------------------|-------------------------|---|
| Elijah     | White     | elijah.white@example.com    | 2023-10-06T01:56:33.871 | <button>Retrieve</button>                     |
| Lily       | Harris    | lily.harris@example.com     | 2023-10-06T01:58:36.454 | <button>Edit</button> <button>Delete</button> |
| Michael    | Martin    | michael.martin@example.com  | 2023-10-06T13:32:55.807 | <button>Edit</button> <button>Delete</button> |
| Emily      | Johnson   | emily.johnson@example.com   | 2023-10-12T12:36:45.616 | <button>Edit</button> <button>Delete</button> |
| Benjamin   | Smith     | benjamin.smith@example.com  | 2023-10-12T11:25:53.043 | <button>Edit</button> <button>Delete</button> |
| Olivia     | Williams  | olivia.williams@example.com | 2023-10-15T13:56:39.077 | <button>Edit</button> <button>Delete</button> |
| Ava        | Brown     | ava.brown@example.com       | 2023-10-04T14:34:16.213 | <button>Edit</button> <button>Delete</button> |
| Lucas      | Davis     | lucas.davis@example.com     | 2023-10-04T14:58:09.654 | <button>Edit</button> <button>Delete</button> |
| Mia        | Miller    | mia.miller@example.com      | 2023-10-04T15:01:41.926 | <button>Edit</button> <button>Delete</button> |
| William    | Wilson    | william.wilson@example.com  | 2023-10-04T15:03:27.999 | <button>Edit</button> <button>Delete</button> |

## Edit Member (Validations):

Member Details

First Name: Elijah

Last Name:  Required

Email:  Invalid Email

Date Joined: 2023-10-06T01:56:33.871

Save Cancel

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## Add Member (Validations):

**Add Member**

First Name\*:

Required

Last Name\*:

Required

Email\*:

Required

Date Joined:  dd/mm/yyyy

**Add Member** **Cancel**

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## Products Home:

Includes Product Search, Adding a New Product and a Preview of the products. Clicking on a Product takes the user to edit the product details.

**Products Home**

Search products... **Search** **Clear** **Add New Product**

|   |   |   |  |   |
|---|---|---|--|---|
| <b>Duck</b><br>Duck breast 500 gram<br><b>\$ 100</b><br>14 Left   | <b>Compact Refrigerator</b><br>Keep your beverages and snacks cold in this fridge<br><b>\$ 99.99</b><br>20 Left | <b>French Press Coffee Maker</b><br>Brew rich and aromatic coffee with this press<br><b>\$ 24.99</b><br>40 Left | <b>External Hard Drive</b><br>High-capacity external hard drive for data storage and backup<br><b>\$ 524</b><br>4 Left | <b>Laptop</b><br>High performance laptop<br><b>\$ 1000</b><br>12 Left   |
| <b>Tablet</b><br>Slim and lightweight tablet with a large display<br><b>\$ 450.25</b><br>13 Left  | <b>Fitness Tracker</b><br>Advanced fitness tracker with heart rate monitoring and GPS<br><b>\$ 9</b><br>46 Left | <b>Digital Camera</b><br>Professional-grade digital camera with 4K video recording<br><b>\$ 88</b><br>15 Left   | <b>Gaming Console</b><br>Next-generation gaming console with cutting-edge graphics<br><b>\$ 761</b><br>28 Left         | <b>Bluetooth Headphones</b><br>High-quality wireless headphones with noise cancellation<br><b>\$ 120.5</b><br>13 Left |
| <b>Wireless Keyboard and Mouse Combo</b><br>Ergonomic wireless keyboard and mouse set for enhanced productivity<br><b>\$ 380</b><br>17 Left | <b>Stainless Steel Water Bottle</b><br>Reusable and eco-friendly water bottle<br><b>\$ 15.99</b><br>70 Left     | <b>Leather Wallet</b><br>Stylish leather wallet with multiple card slots<br><b>\$ 24.99</b><br>80 Left          | <b>Camping Tent</b><br>2-person tent for outdoor adventures<br><b>\$ 69.99</b><br>15 Left                              | <b>Gaming Mouse</b><br>High-precision gaming mouse with customizable buttons<br><b>\$ 59.99</b><br>50 Left            |

## Edit a Product:

GotoGro Sign Out

### Product Details

|                              |   |
|------------------------------|---|
| Image URL/Path: <sup>*</sup> | <input type="text" value="https://archives.bulbagarden"/> |
| Product Name: <sup>*</sup>   | <input type="text" value="Duck"/>                         |
| Description: <sup>*</sup>    | <input type="text" value="Duck breast 500 gram"/>         |
| Price: <sup>*</sup>          | <input type="text" value="100"/>                          |
| Stock Level: <sup>*</sup>    | <input type="text" value="14"/>                           |



**Duck**  
Duck breast 500 gram  
\$ 100  
14 Left

Save Cancel

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## Add Product (Validations):

GotoGro Sign Out

### Add Product

|                              |   |
|------------------------------|---|
| Image URL/Path: <sup>*</sup> | <input type="text" value=""/> <span style="color: red; font-size: small;">Required</span> |
| Product Name: <sup>*</sup>   | <input type="text"/> <span style="color: red; font-size: small;">Required</span>          |
| Description: <sup>*</sup>    | <input type="text"/> <span style="color: red; font-size: small;">Required</span>          |
| Price: <sup>*</sup>          | <input type="text"/> <span style="color: red; font-size: small;">Required</span>          |
| Stock Level: <sup>*</sup>    | <input type="text"/> <span style="color: red; font-size: small;">Required</span>          |

**Image Preview**

**Product Name**  
Description  
**\$ 0**  
**0 Left**

Save Cancel

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## Sale Records Home:

| Sale ID | Member ID | Sale Date  | Quantity | Total Amount | Action  |
|---------|-----------|------------|----------|--------------|---|
| 504     | 52        | 2023-09-19 | 97       | \$9700       | <button>Edit</button> <button>Delete</button> |
| 505     | 8         | 2023-07-28 | 30       | \$3000       | <button>Edit</button> <button>Delete</button> |
| 506     | 14        | 2023-10-14 | 12       | \$1200       | <button>Edit</button> <button>Delete</button> |
| 507     | 17        | 2023-09-08 | 31       | \$3100       | <button>Edit</button> <button>Delete</button> |
| 508     | 62        | 2023-07-16 | 12       | \$1200       | <button>Edit</button> <button>Delete</button> |
| 509     | 35        | 2023-07-08 | 18       | \$1800       | <button>Edit</button> <button>Delete</button> |
| 510     | 28        | 2023-07-29 | 66       | \$6600       | <button>Edit</button> <button>Delete</button> |
| 511     | 29        | 2023-09-28 | 31       | \$3100       | <button>Edit</button> <button>Delete</button> |
| 512     | 50        | 2023-09-15 | 19       | \$1900       | <button>Edit</button> <button>Delete</button> |
| 513     | 32        | 2023-08-10 | 65       | \$6500       | <button>Edit</button> <button>Delete</button> |

## Edit a Sale Record:

**Sale Record Details**

**Member ID:**  ▼  
**Product ID:**  ▼  
**Sale Date:**  □  
**Quantity:**   
**Total Amount:**

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## Add a Sale Record:

Add Sale Record

**Member ID:** Select a Member  
Required

**Product Name:** Select a Product  
Required

**Sale Date:** dd/mm/yyyy  
Required

**Quantity:** 0

**Total Amount:** \$0

**Add Sale Record** **Cancel**

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## Sales Reports Home:

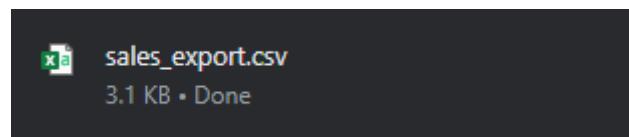
Sales Report

**Month:** Select...  
**Year:**

**Submit** **Clear** **Export**  
**Toggle Filter Menu** **Reset Filters**

| Sale ID | Member ID | Product ID | Sale Date  | Quantity | Total Amount |
|---------|-----------|------------|------------|----------|--------------|
| 504     | 52        | 12         | 2023-09-19 | 97       | 9700         |
| 506     | 14        | 12         | 2023-10-14 | 12       | 1200         |
| 507     | 17        | 12         | 2023-09-08 | 31       | 3100         |
| 511     | 29        | 12         | 2023-09-28 | 31       | 3100         |
| 512     | 50        | 12         | 2023-09-15 | 19       | 1900         |
| 514     | 21        | 12         | 2023-09-29 | 3        | 300          |
| 515     | 20        | 12         | 2023-10-12 | 83       | 8300         |
| 516     | 33        | 12         | 2023-09-01 | 83       | 8300         |
| 518     | 12        | 12         | 2023-09-10 | 10       | 1000         |
| 523     | 51        | 12         | 2023-10-11 | 5        | 500          |
| 524     | 51        | 12         | 2023-09-26 | 24       | 2400         |
| 530     | 40        | 12         | 2023-08-25 | 32       | 3200         |

Export sales report:



Sample of the Exported CSV Report:

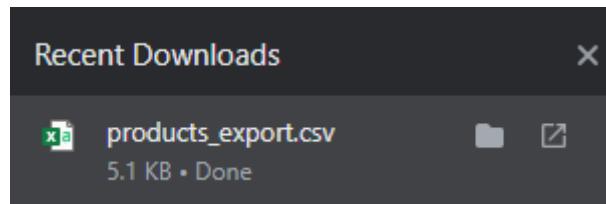
| sale_id | member_id | product_id | sale_date  | quantity | total_amount |
|---------|-----------|------------|------------|----------|--------------|
| 504     | 52        | 12         | 19/09/2023 | 97       | 9700         |
| 506     | 14        | 12         | 14/10/2023 | 12       | 1200         |
| 507     | 17        | 12         | 8/09/2023  | 31       | 3100         |
| 511     | 29        | 12         | 28/09/2023 | 31       | 3100         |
| 512     | 50        | 12         | 15/09/2023 | 19       | 1900         |
| 514     | 21        | 12         | 29/09/2023 | 3        | 300          |
| 515     | 20        | 12         | 12/10/2023 | 83       | 8300         |
| 516     | 33        | 12         | 1/09/2023  | 83       | 8300         |
| 518     | 12        | 12         | 10/09/2023 | 10       | 1000         |
| 523     | 51        | 12         | 11/10/2023 | 5        | 500          |
| 524     | 51        | 12         | 26/09/2023 | 24       | 2400         |
| 530     | 40        | 12         | 25/08/2023 | 32       | 3200         |
| 534     | 36        | 12         | 4/09/2023  | 64       | 6400         |
| 538     | 3         | 12         | 30/09/2023 | 74       | 7400         |
| 539     | 50        | 12         | 4/09/2023  | 92       | 9200         |

## Inventory reports home:

The screenshot shows the 'Inventory Report' section of the GotoGro application. At the top, there are four buttons: 'Load Inventory' (orange), 'Export' (green), 'Toggle Filter Menu' (orange), and 'Reset Filters' (black). Below these is a table with columns: Product ID, Product Name, Description, Price, and Stock Quantity. The table contains 15 rows of product information.

| Product ID | Product Name                      | Description   | Price    | Stock Quantity |
|------------|-----------------------------------|---|----------|----------------|
| 1          | Laptop                            | High performance laptop   | \$1000   | 12             |
| 2          | Lumina Desk Lamp                  | Elegant desk lamp with adjustable brightness                        | \$29.99  | 30             |
| 3          | Camping Tent                      | 2-person tent for outdoor adventures                                | \$69.99  | 15             |
| 4          | Bluetooth Headphones              | High-quality wireless headphones with noise cancellation            | \$120.5  | 13             |
| 5          | Digital Camera                    | Professional-grade digital camera with 4K video recording           | \$88     | 15             |
| 6          | Tablet                            | Slim and lightweight tablet with a large display                    | \$450.25 | 13             |
| 7          | Gaming Console                    | Next-generation gaming console with cutting-edge graphics           | \$761    | 28             |
| 8          | Wireless Keyboard and Mouse Combo | Ergonomic wireless keyboard and mouse set for enhanced productivity | \$380    | 17             |
| 9          | Fitness Tracker                   | Advanced fitness tracker with heart rate monitoring and GPS         | \$9      | 46             |
| 10         | External Hard Drive               | High-capacity external hard drive for data storage and backup       | \$524    | 4              |
| 11         | Electric Kettle                   | Boil water quickly with this electric kettle                        | \$19.99  | 60             |
| 12         | Duck                              | Duck breast 500 gram  | \$100    | 14             |
| 13         | Classic Coffee Mug                | Simple yet stylish ceramic coffee mug                               | \$7.99   | 120            |
| 14         | Compact Refrigerator              | Keep your beverages and snacks cold in this fridge                  | \$99.99  | 20             |
| 15         | Adventure Backpack                | Durable backpack for outdoor enthusiasts                            | \$39.99  | 60             |

Export Inventory report:



## Sample of the Exported CSV Report:

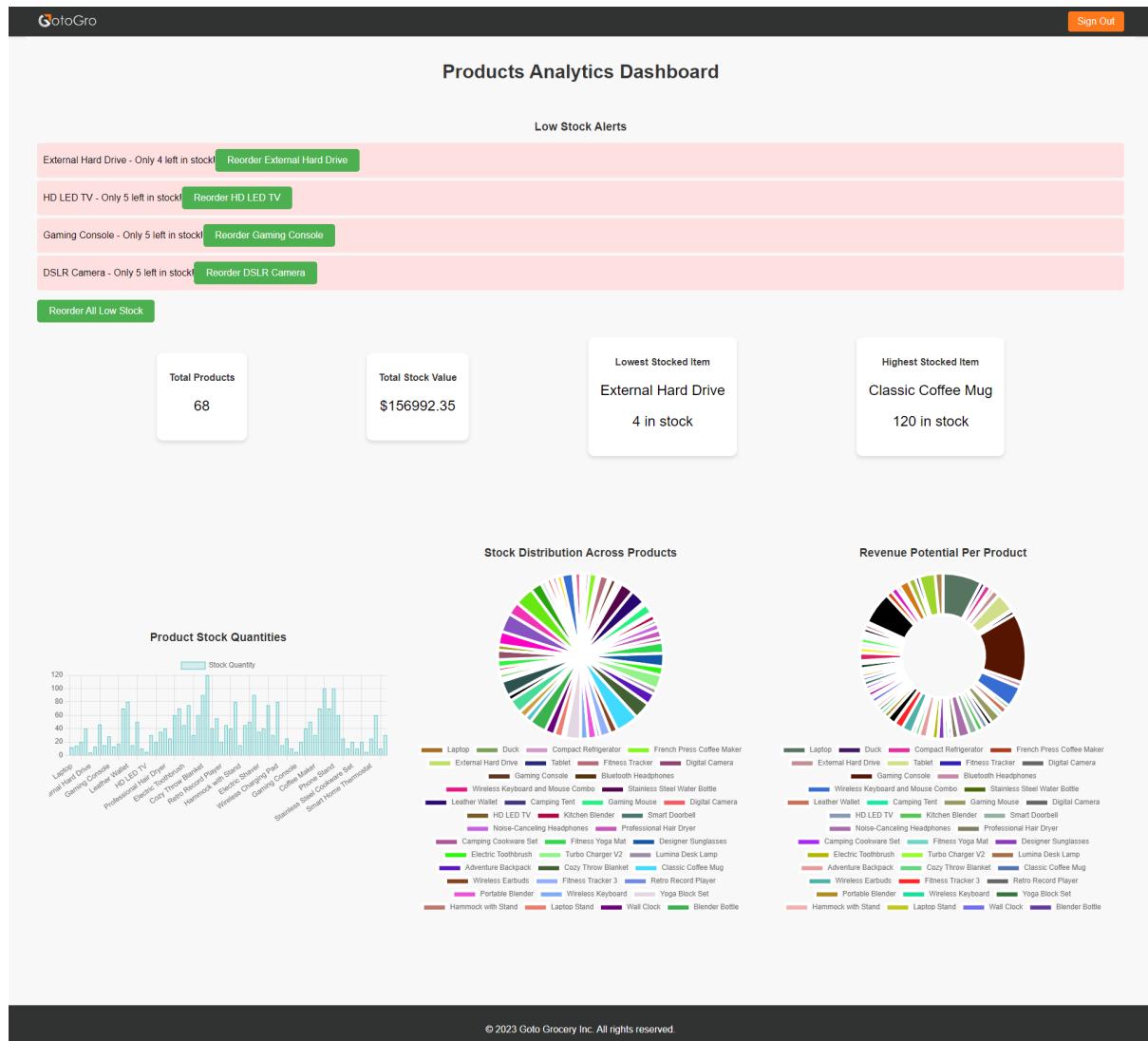
| product_id | product_name                      | description   | price  | stock_quantity |
|------------|-----------------------------------|---|--------|----------------|
| 1          | Laptop                            | High performance laptop   | 1000   | 12             |
| 2          | Lumina Desk Lamp                  | Elegant desk lamp with adjustable brightness                        | 29.99  | 30             |
| 3          | Camping Tent                      | 2-person tent for outdoor adventures                                | 69.99  | 15             |
| 4          | Bluetooth Headphones              | High-quality wireless headphones with noise cancellation            | 120.5  | 13             |
| 5          | Digital Camera                    | Professional-grade digital camera with 4K video recording           | 88     | 15             |
| 6          | Tablet                            | Slim and lightweight tablet with a large display                    | 450.25 | 13             |
| 7          | Gaming Console                    | Next-generation gaming console with cutting-edge graphics           | 761    | 28             |
| 8          | Wireless Keyboard and Mouse Combo | Ergonomic wireless keyboard and mouse set for enhanced productivity | 380    | 17             |
| 9          | Fitness Tracker                   | Advanced fitness tracker with heart rate monitoring and GPS         | 9      | 46             |
| 10         | External Hard Drive               | High-capacity external hard drive for data storage and backup       | 524    | 4              |
| 11         | Electric Kettle                   | Boil water quickly with this electric kettle                        | 19.99  | 60             |
| 12         | Duck                              | Duck breast 500 gram  | 100    | 14             |
| 13         | Classic Coffee Mug                | Simple yet stylish ceramic coffee mug                               | 7.99   | 120            |
| 14         | Compact Refrigerator              | Keep your beverages and snacks cold in this fridge                  | 99.99  | 20             |
| 15         | Adventure Backpack                | Durable backpack for outdoor enthusiasts                            | 39.99  | 60             |
| 16         | Electric Toothbrush               | Keep your teeth clean with this electric toothbrush                 | 39.99  | 45             |
| 17         | Portable Blender                  | Blend your favorite smoothies on the go                             | 34.99  | 45             |
| 18         | Smart Home Thermostat             | Control your home temperature with your phone                       | 89.99  | 25             |
| 19         | Fitness Tracker 3                 | Track your health and fitness with this device                      | 49.99  | 55             |

Edit Product (From Inventory Report):

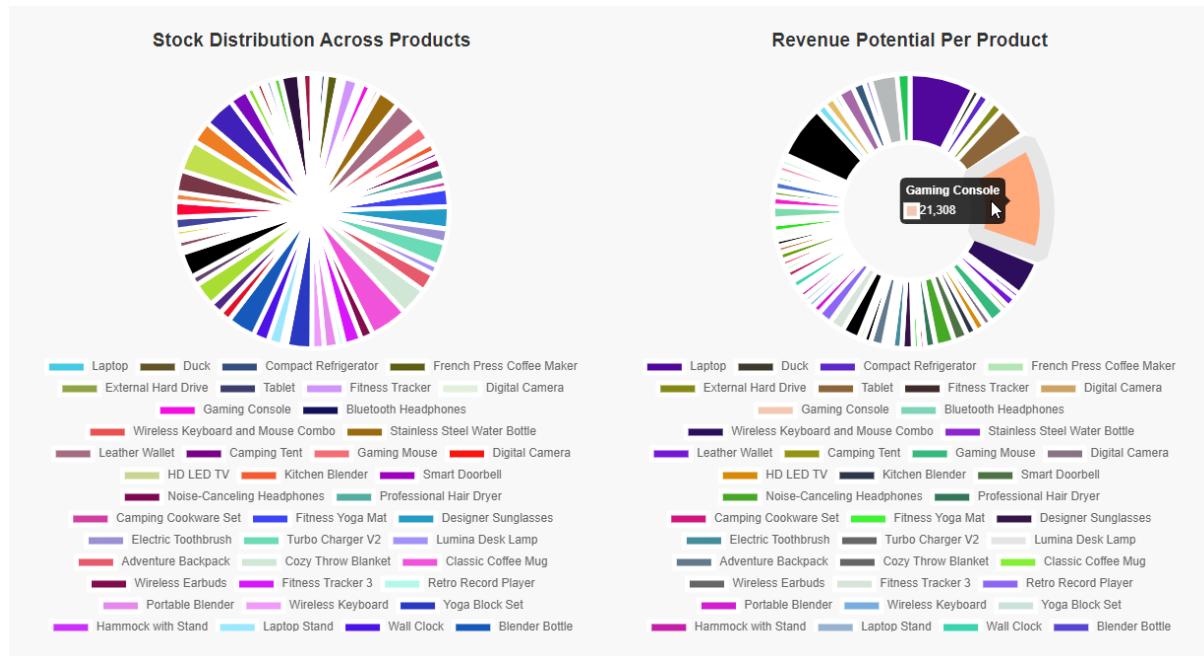
### Edit Product

**Product Id** 
  
**Product Name** 
  
**Description** 
  
**Price** 
  
**Stock Quantity** 
  
**Image** 
  
**Deleted** 
  
  
Save
Cancel

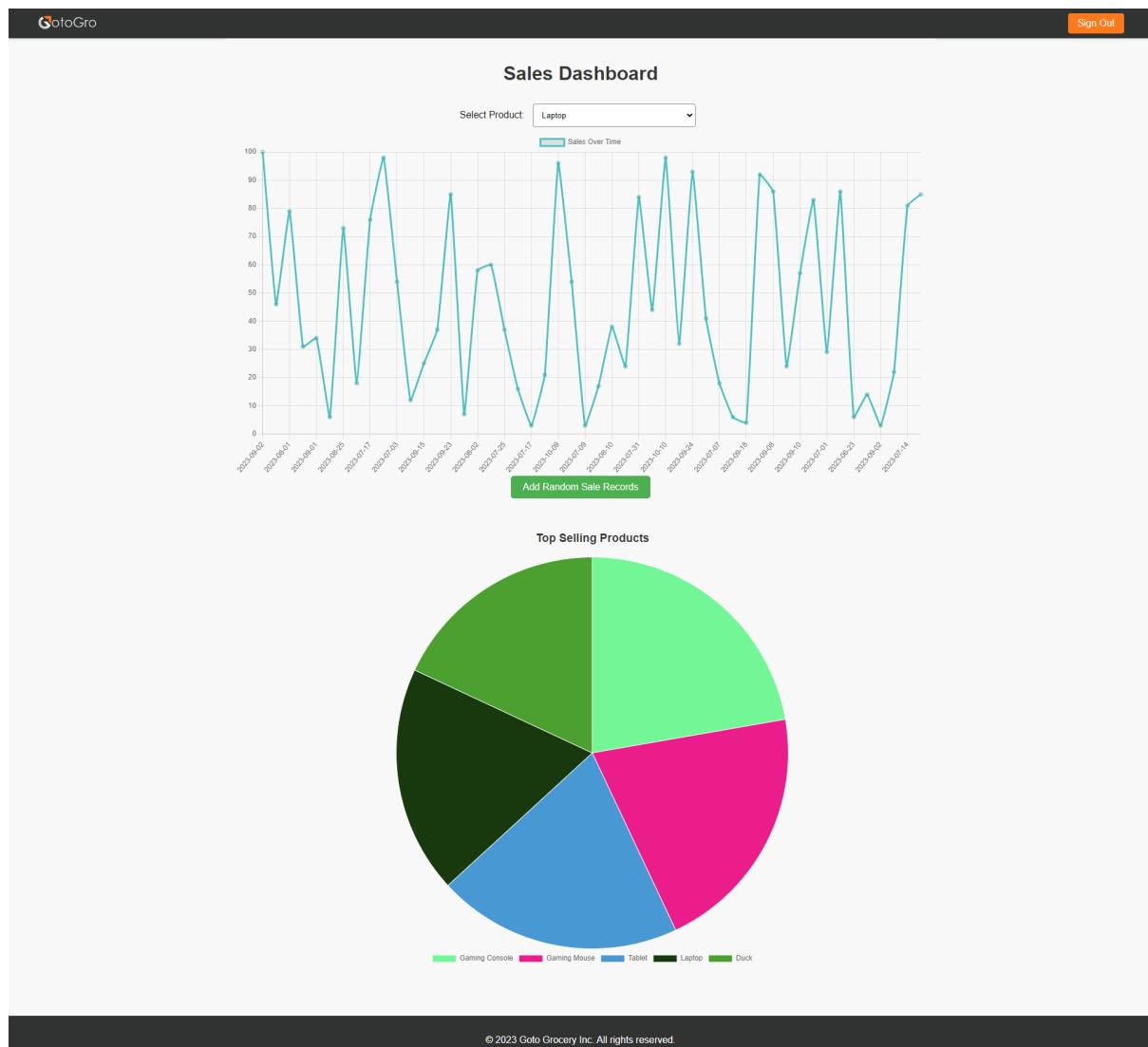
## Product Analytics dashboard:



Responsive graphs:



## Sales Analytics dashboard (with dynamic graph):



# Sprint Review Meeting Minutes

**Date:16/10/2023**

The meeting commenced with Alex's discussion of the goals that were set out to complete during Sprint 2. The primary goals included making the user interface cleaner, more robust, addressing bug fixes, and enhancing core functionality for Goto Grocery's employees.

The jira board was then shown, and all except one backlog item was shown as being complete.

The backlog item that wasn't addressed as complete was to "Create a prediction algorithm (F16)". This was discussed by Alex as a non-specific scoped item, which leads to a discussion between him and the stakeholder on its broad nature. Marella has stated that this item feels more like an "epic" rather than a backlog item, which the stakeholder has agreed upon.

**Suggestion by the stakeholder:** Define a clear criteria and a definition of done for this backlog item and to put this backlog item back for Sprint 3.

The burndown charts are then shown and Enzo has reported that it's perfect in comparison to the estimated and actual effort it took to complete the backlog items for Sprint 2. The reason why it's not showing perfectly is due to the burndown chart not showing the transition from "in progress" to "testing" until a task is completed. It was also discussed that some backlog items have had their story points changed.

The team then discussed their estimation techniques, where Marella has discussed that analogy-based estimation techniques were particularly helpful, as the team has mentioned that leveraging the team's experience from Sprint 1 to Sprint 2 was really helpful, as backlog items found in Sprint 1 are similar to backlog items in Sprint 2. Marella then discussed the utilisation of WBS during sprint 1 which helped with the initial estimation of hours to be spent for tasks.

Lachlan then proceeded with testing demos and presented test cases. Lachlan then introduced a fully automated testing framework that worked perfectly when hosted locally, but faced difficulties when the framework was being utilised through the hosted website. The team observed that the execution of all tests and discussed how easy it was to use the automated testing features.

The stakeholder then posed a question in regards to testing: How difficult was it to use and implement?

Lachlan answered that the entire framework was easy to use. There are two different versions of Selenium, and Lachlan utilised the IDE version because it's easier to setup. It's a lot more limited compared to the other version, but with this software project, the IDE is more than sufficient. He also mentioned that the software is easier to test locally compared to on the website as it is faster.

Lachlan then proceeded to show the dashboards created during sprint 2. Alex explains that he's happy with how it shows analytical data for non-technical users who don't want to see raw data.

The stakeholder then asks if the graphs found within the dashboard are based on real data.

The team then showed that it does use real data, as the graphs show test data that was just made during the demonstration.

The team then demonstrated the fuzzy search functionality, which can search through the description or the product name instead.

The product owner then provided future sprint suggestions to be done:

1. Adding a prediction algorithm for future sprints.
2. Customization of dashboards such as custom colours for specific products, or the ability to change how the dashboard looks so that users can have their own custom dashboards so they know what to expect.

The stakeholder then provided future sprint suggestions:

1. Consistency in colour palettes within pages
2. Consistency in button placements within pages
3. Editing functions to be easily accessible within rows, instead of having a button that leads to another page
4. The idea of having a long reports to be separated into pages
5. The idea of having the search filters found at the top of the page instead of the bottom of the page.

Action Items for the next sprint

1. Definition of done, or a clear criteria for the user prediction algorithm backlog item for the next sprint
2. Address issues related to consistency in design, button placement, and color schemes
3. Explore improvements in paging for long lists and filtering and sorting options.
4. Continue working on the automated testing framework's for future sprints