**GENERAL INFORMATION**

Project Name: Smart Grocery Assistant

Purpose: Our goal is to develop a **Smart Grocery Assistant** that provides users with a streamlined shopping experience by offering:

1. **Inventory monitoring** to inform users about product availability.
2. **Grocery list integration**, allowing users to optimize their lists and compare total costs across different stores.

Scope:

So our overall goal is to improve the grocery shopping experience by offering various kind of tools such as price comparison of stores., inventory management and a grocery list manager to assist the customers.

Various kind of functions can be added like accounts creation, shopping list, notifications regarding product status.

1.3 Team

|  |  |  |
| --- | --- | --- |
| Name | Role | Email/Phone |
| André Rodríguez | Full stack Developer | Arodriguezovall7747@conestogac.on.ca |
| Diego Bolaños | Full stack Developer | Dbolanososejo6481@conestogac.on.ca |
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**Functional Requirements**

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| --- | --- | --- | --- | --- | --- |
| **#** | **Functional Requirement** | **Category** | **Notes** | **Priority** | **Owner** |
|  | User shall be able to create an account using an email and password. | Authentication | Standard account creation flow. | High | Diego |
|  | User shall be required to login and logout of the system. | Authentication | Users must authenticate to access the system. | High | Diego |
|  | User shall be able to reset their password using their email. | Authentication | Includes an email recovery process. | Medium | Diego |
|  | User shall be able to update their password. | Authentication | Users can change their password from within their account. | Medium | Diego |
|  | User cannot access other users data by pasting the link in the browser | Authentication | Prevents unauthorized access | High | André |
|  | User shall be able to edit profile information, including name, phone number, and address. | Profile Management | Editing profile details after account creation. | Low | Diego |
|  | User shall be able to add a profile photo. | Profile Management | Allows users to upload and manage profile pictures. | Low | André |
|  | User shall be able to create a grocery list. | Grocery List Management | Allows users to organize items | Medium | André |
|  | User shall be able to delete a grocery list. | Grocery List Management | Allows complete removal of grocery lists. | Medium | André |
|  | User can create items in the grocery list | Grocery List Management | Add specific items to a list | Medium | Diego |
|  | User can update items in the grocery list | Grocery List Management | Modify existing list entries | Medium | Diego |
|  | User shall be able to delete an individual item from a grocery list. | Grocery List Management | Enables the removal of specific items from saved grocery lists. | Medium | Diego |
|  | User can filter the items in the grocery list. | Grocery List Management | Filtering the items by categories (e.g., fruits, vegetables, etc.). | High | Zeel |
|  | User shall be able to add items directly to their cart. | Grocery List Management | Allows users to quickly add items to their cart for future purchase. | High | Diego |
|  | User shall be able to check their total cart amount once they add items in the cart | Grocery List Management | It benefits the user to carrying necessary cash | High | Dev |
|  | User shall be able to update the product quantity in the cart (default 1) | Grocery List Management | Allows user to update the product quantity in the cart | High | Dev |
|  | User can see product history on grocery list search for easy access | Grocery List Management | Keep user search logs for easier products pick up | Low | Diego |
|  | User can group the grocery list by product category | Grocery List Management | Breakdown of products into categories. | Low | Diego |
|  | User can set a budget | Budget | Enables tracking expenses | Low | Dev |
|  | User can update a budget | Budget | Adjust budget settings | Low | Dev |
|  | User can reset a budget | Budget | Restore budget to default | Low | Dev |
|  | System shall display the product limit of the items (if specified) | Price Comparison | Displays the product limit for buying (e.g. Lays Classic Quantity limit-4) | Medium | Dev |
|  | Users shall be able to search for products based on categories. | Search | Allows searching for products categorized by type (e.g., groceries, electronics). | High | Zeel |
|  | System shall implement a sort filter to allow users to sort prices and items. | Search | Sort options: Low to High, High to Low, A-Z, and by Date added. | Medium | André |
|  | Users shall be able to search for items using a product’s name. | Search | Provides search functionality using keywords related to the product name. | High | André |
|  | Users shall be able to search for a product by grocery store name | Search | Provides search functionality using keywords related to product and grocery store name (e.g. Lime in Walmart) | High | Dev |
|  | User shall be able to search for the entire flyer of a particular grocery store | Search | Provides search functionality using keywords related to grocery store name | High | Dev |
|  | User shall be able to see some most trending search of products | Search | Provides most trending search products of current week, searched by other users | Low | Zeel |
|  | Admin can create a store | Store management | Store name and location required | High | Vats |
|  | Admin can update a store | Store management | Maintain store information | High | Vats |
|  | Admin can delete a store | Store management | Remove store details | High | Vats |
|  | Manager can be assigned to a store | Store management | Only an admin can assign a manager using their email | High | André |
|  | Admin can create a department | Department Management | Add new organizational units | High | André |
|  | Admin can update a department | Department Management | Modify department details | High | André |
|  | Admin can delete a department | Department Management | Remove a department | High | André |
|  | Admin can create a category | Category Management | Add new product classifications | High | André |
|  | Admin can update a category | Category Management | Modify category details | High | André |
|  | Admin can delete a category | Category Management | Remove a product classification | High | André |
|  | Admin shall be able to see stock levels | Inventory Management | Provides full control over product management for the admin. | High | Vats |
|  | Admin shall be able to insert products. | Inventory Management | Add new inventory items | High | André |
|  | Manager shall be able to update products. | Inventory Management | Modify inventory details | High | André |
|  | Admin shall be able to delete products. | Inventory Management | Remove inventory items | High | André |
|  | Manager shall be able to see stock levels | Inventory Management | Manager has update permissions but cannot insert or delete products. | High | Vats |
|  | User shall only see products, and if a product is out of stock, the system will display an "Out of Stock" status. | Inventory Management | Users can view available products and see the status of availability when products are out of stock. | Low | Vats |
|  | Users can check their spending history over a period of time. | Reporting | Track spending over user-defined time frames. | Medium | Zeel |
|  | User can see spending history by category. | Reporting | Breakdown of spending into different categories. | Low | Diego |