Part 3: Reianna Liu (rl3176), Zhizhuo Zhang (zz3012)

PosgreSQL account name: rl3176

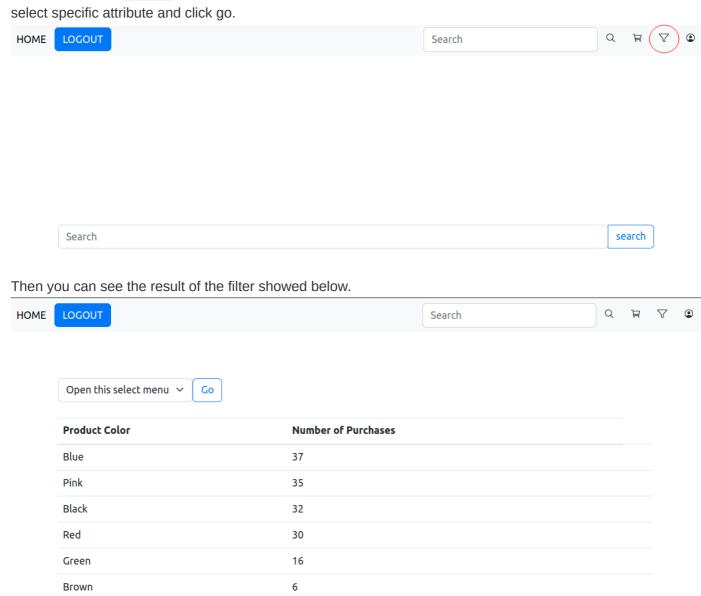
URL of the web: http://34.73.23.127:8111

Description of the web application

1. Features in the original proposal

 Recommend and range categories to users based on different attributes in the filter, such as size and color.

You can click the filter button (showed on the upper right corner of the image) to open the filter page and select specific attribute and click go.



 Show the range of the age and the proportion of gender of customers who ordered some specific categories.

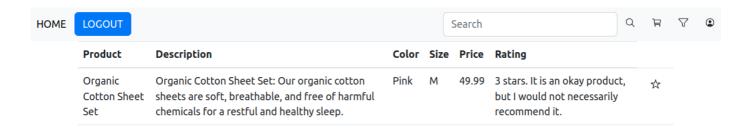
Similarly, you can also selct the age and the gender attribute in the filter.

· Search for the reviews for a specific supplier

The filter button also allow the search of some specific suppliers.

• The user can collect or like one product.

If you want to collect some products, you can click the star button on the left of every product.



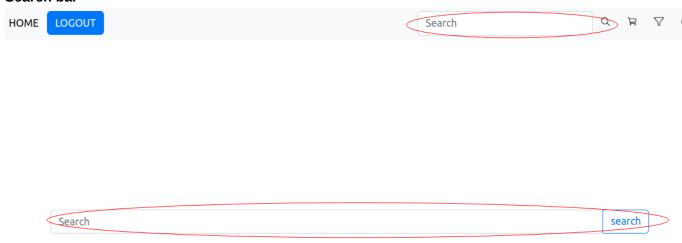
If the product has been added into the cart, the web application will notice you when you try to repeatedly add the same product.

• Search for ratings of the specific product

Similarly, you can see the rating while searching different products in the search page.

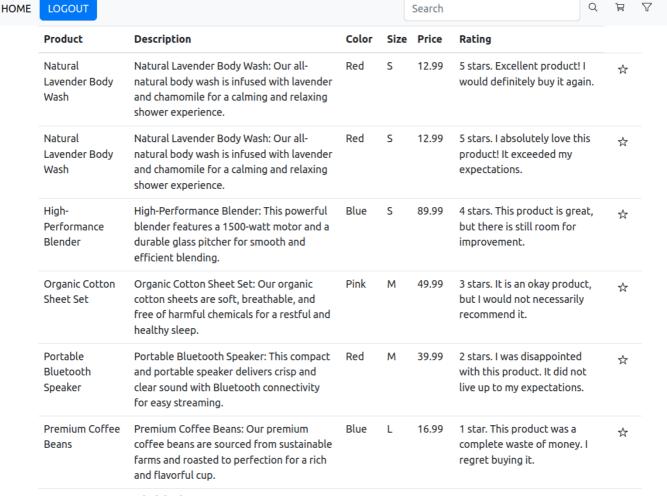
2. New features

Search bar



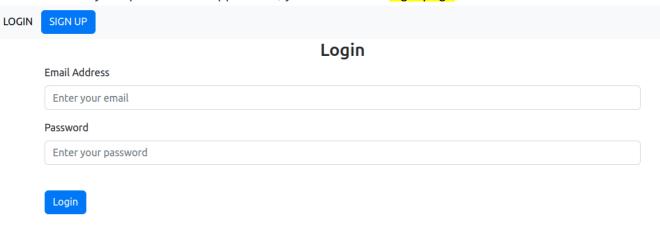
This is the home page of the web application, you can type in the name of the product you want to buy, and click the search button. You can see its information on the search page if it exists in our database.

If you don't type in anything and click the search button directly, you can see all products in our database.



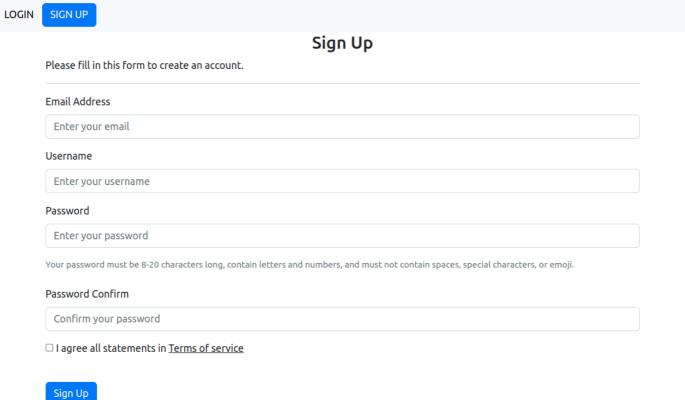
• User management and title bar

At the first time you open the web application, you can see the login page.



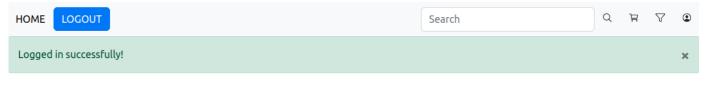
Don't have an account? Sign up here

If you don't have the account of this web application, you should click the Sign up here button to registrate.



Have already an account? Login here

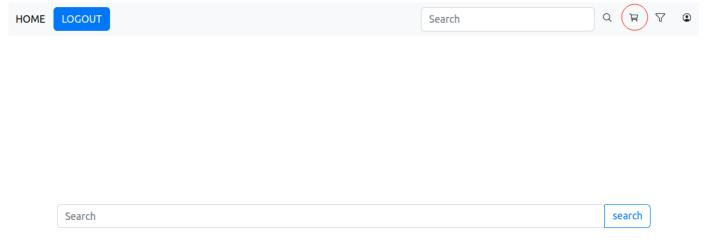
After registration, you can login to the home page. There are several buttons on the title bar, whose features will be described later.



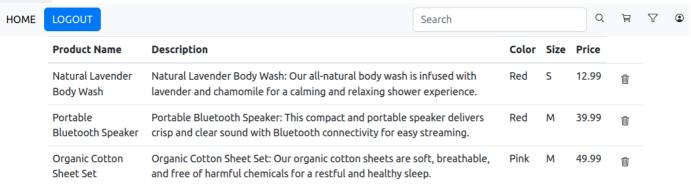
Search

• Cart management

Continuing from the collection function stated above, the cart button on the upper right of the home page can open the cart page.



In this page, you can see all products added in the cart and choose whether to delete it by clicking the delete button on the right of the product.



User profile

You can click the <code>profile</code> button to visit the <code>profile page</code>. All the information in this page is related to the email you input when logging in. If you are a user of the shopping website, <code>profile page</code> will show your personal information, shipping address, and pass orders. If you are not a user of the shopping website, <code>profile page</code> will only show your username and email address of this website.

Matthew

matthewjackson@bp.com

ACCOUNT INFORMATION						
First Name	Last Name		Gender		Age	
Matthew	Jackson		F		48	
Primary Phone Number			Secondary Phone Number			
363-430-1813			559-181-3744			
SHIPPING ADDRESS						
Shipping Address 1						
Street Address						
538 Cedar Ave						
City		State		Zip Code		
Katy		ТХ		77449		
Shipping Address 2						
Street Address						
5 Spohn Circle						
City		State		Zip Code		
Arlington		TX		62137		
PAST ORDERS						
ORDER 00023						
Product Shipped		Shipped By	pped By		Order Status	
All-Natural Shampoo	United Parcel Service			Delivered		
ORDER 00025						
Product Shipped By		Shipped By	Or			
All-Natural Shampoo Federal Express				Delivered		

For testing purpose, we have already create a few accounts:

- 1. Users of the shopping website -- email: matthewjackson@bp.com | password: database
- 2. Users not from the shopping website -- email: reianna@gmail.com | password: database

3. Missing part

Shipping speed of every order

We replace it with the **order status** attribute.

Two interesting pages

1. Filter page

In filter.html file, we use this code to receive input values from the web page.

```
<form action="{{ url_for('views.filter') }}"class="form-inline" method="POST">
    <div class="form-group">
     <div class="input-group">
       <select name= "select-filter" class="form-select" aria-label="Default select example">
       <option selected value="0">Open this select menu</option>
       <option value="1">Number of Purchases
        <option value="2">Size</option>
       <option value="3">Color</option>
       <option value="4">Gender</option>
       <option value="5">Age</option>
       <option value="6">Supplier</option>
       </select>
     </div>
     <input
       type="hidden"
       name="tbn-pressed"
       value="select-filter"
     />
     <button type="submit" class="btn btn-outline-primary">Go</button>
</form>
```

As you can see in the code showed above, every option in the select menu has its unique value, when you click the button in this form, the views.py file located in the backend can get the value of the option by using this code

```
filter_parameter = request.values.get('select-filter')
```

After that, the program can execute postgresql query and post the result back to filter.html file based on different value.

Eventually, you can see different results when you choose different option on this page. We think this is an ingenious design.

2. Collect page

The design of this page can be divided into two sections. The first is to display the products in a specific user's shopping cart. The second is to delete a specific product in the shopping cart as his wish.

• Filter products

We use session module in flask library to ensure the web application can remember the user's login email address when he enter the collect page. Then we use postgresql query language in views.py file to get information about the products in the shopping cart corresponding to the email address, and send it to collect.html file.

```
with engine.connect() as g.conn:
    params = \{\}
    params['email'] = userp
    cursor = g.conn.execute(text("""SELECT *
                                    FROM collects C
                                    NATURAL JOIN product P
                                    WHERE C.email = :email
                                     """), params)
    rowResults = []
    for result in cursor:
        print(result)
        rowResults.append({'product_id': result[0],
                          'product': result[5],
                          'description': result[2],
                          'color': result[6],
                          'size': result[7],
                          'unit_price': result[4]})
    cursor.close()
return render_template("collect.html", recentRecords=rowResults)
```

In collect.html file, we use a table to display information from backend program.

```
<thead>
    Product Name
     Description
     Color
     Size
     Price
    </thead>
  {% if recentRecords == [] %}
    You have not collected any product!
    {% else %} {% for rows in recentRecords %}
     {{ rows.product }}
     {{ rows.description }}
     {{ rows.color }}
     {{ rows.size }}
     {{ rows.unit_price}}
     <h +>
      <form action="{{ url_for('views.delect_collect')}}" method="POST">
        <input
         type="hidden"
         name="btn-pressed"
         value="{{rows.product_id}}"
        />
        <button type="submit" class="btn btn-outline-default waves-effect">
         <ion-icon name="trash-outline"></ion-icon>
        </button>
      </form>
     {% endfor %} {% endif %}
```

• Delete products

It's worth nothing that there is a delete button in such table. When you click on it, the code will redirect to the delete_collect function in views.py file. The backend file will also get the specific ID of the product you want to delete at the same time. Based on this ID, the postgresql query can delete the specific information in the collect table created before and notice you with a flash on the web application.