

Online Retail Store

USER GUIDE

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The application starts with asking the user whether they are a customer or an employee? If the user is a customer, he/she is asked to login or create a new account if they don't have one already.

```
- - - - -  
WELCOME TO ONLINE RETAIL STORE  
- - - - -  
Are you a customer or an employee?  
1. Customer  
2. Employee  
Enter your choice: 1  
- - - - -  
1. Login  
2. Create an account  
Enter your choice: 2  
- - - - -
```

Create an account

The customer is asked to fill the following fields for making a new account which is added to the database of customers.

```
Enter your first name: Aditya
Enter your last name: Kumar
Enter your email: aditya372@gmail.com
Enter your password: Adi372@#
Enter your contact number: 9312224869
Enter your date of birth: 2000-03-04
```

After filling the above credentials, the customer is assigned a new wallet with an unique wallet id. Here, he/she is asked to fill the wallet with money for future transactions. After the transaction, the customer is asked for first name and wallet id for final authentication.

```
Your wallet id is: 1000
Enter your wallet credentials
Enter the amount you want to add in your wallet: 6000
Enter your first name: Aditya
Your wallet has been created
Enter your wallet id: 1000
```

The customer is finally asked to fill out their address details.

```
Please enter your address details
Enter your house number: 19
Enter your locality: Powai
Enter your city: Mumbai
Enter your pincode: 400076
Address added
```

The making of a new customer is confirmed by a message that he/she has been added to the database with a display showing their details.

```
New customer added
Customer id: 101
First name: Aditya
Last name: Kumar
Email: aditya372@gmail.com
Password: Adi372@#
Contact: 9312224869
Date of birth: 2000-03-04
Wallet id: 1000
```

```
- - - - -
```

The customer is finally asked to login using the above provided credentials for entering the application as shown below. Once logged in, the customer is greeted with the main menu of the application.

```
- - - - -  
Enter credentials to login  
Enter your email: aditya372@gmail.com  
Enter your password: Adi372@#  
- - - - -  
Login successful  
Welcome Aditya Kumar  
- - - - -  
1. Search for products  
2. Add product to cart  
3. Check cart  
4. Place order  
5. Remove product from cart  
6. Add money to wallet  
7. Check orders placed  
8. Check wallet  
9. Update customer credential  
10. Assigned delivery partner  
11. Exit  
- - - - -
```

Search for products

If the customer doesn't want to filter any parameter, he/she has to type 'n' for the given option.

```

- - - - -
Enter your choice: 1
Do you want to filter the products? (y/n): n

```

Product id	Name	Price	Rating	Current Stock
700	Muffin - Mix - Creme Brule 15l	172	1	336
701	Butcher Twine 4r	340	4	148
702	Pork - Backs - Boneless	457	1	338
703	Rice Wine - Aji Mirin	172	3	37
704	Lentils - Green, Dry	480	1	423
705	Rabbit - Saddles	102	3	33
706	Longos - Burritos	132	4	717
707	Pickle - Dill	242	3	71
708	Muffin Batt - Blueberry Passion	306	5	310
709	Container - Foam Dixie 12 Oz	201	1	936
710	Nantucket Orange Juice	382	1	322
711	Bread - Kimel Stick Poly	109	1	749
712	Wine - Penfolds Koonuga Hill	160	5	301
713	Wine - Jaboulet Cotes Du Rhone	442	4	365
714	Cheese - Manchego, Spanish	237	4	822
715	Lamb - Ground	500	4	930
716	Juice - Apple, 500 ML	231	3	828
717	Containter - 3oz Microwave Rect.	406	5	37
718	Soup - Boston Clam Chowder	401	1	747
719	Wine - Hardys Bankside Shiraz	325	5	306
720	Yogurt - Blueberry, 175 Gr	202	2	210
721	Juice - Orange, 341 ML	317	4	69
722	Bread Base - Gold Formel	172	4	947
723	Lidsoupcont Rp12dn	333	3	814
724	Soup - Knorr, Ministrone	361	5	453
725	Lettuce - Frisee	401	2	584
726	Lobster - Tail, 3 - 4 Oz	188	1	748

Filtering allows the user to filter the available products according to the below parameters.

```

- - - - -
Enter your choice: 1
Do you want to filter the products? (y/n): y
- - - - -

Filter by
1. Price
2. Stock
3. Name
4. Rating
- - - - -

```

Filtering by price gives all the products within the desired price range in ascending order of price.

```

- - - - -
Enter your choice: 1
Enter the minimum price: 380
Enter the maximum price: 400
+-----+-----+-----+-----+
| Product id | Name | Price | Rating | Current Stock |
+-----+-----+-----+-----+
| 710 | Nantucket Orange Juice | 382 | 1 | 322 |
| 796 | Beef - Top Butt Aaa | 384 | 1 | 465 |
| 754 | Soup - Base Broth Beef | 392 | 4 | 511 |
| 728 | Container - Hngd Cll Blk 7x7x3 | 394 | 5 | 218 |
| 773 | Soup - Cream Of Potato / Leek | 395 | 5 | 883 |
| 733 | Soup - Knorr, Classic Can. Chili | 400 | 3 | 211 |
| 738 | Smirnoff Green Apple Twist | 400 | 3 | 442 |
+-----+-----+-----+-----+

```

Customers can buy products in bulk within the desired stock range.

```

Enter the minimum stock required: 800
Enter the maximum stock required: 850
+-----+-----+-----+-----+
| Product id | Name | Price | Rating | Current Stock |
+-----+-----+-----+-----+
| 714 | Cheese - Manchego, Spanish | 237 | 4 | 822 |
| 716 | Juice - Apple, 500 Ml | 231 | 3 | 828 |
| 723 | Lidsoupcont Rp12dn | 333 | 3 | 814 |
| 730 | Compound - Mocha | 297 | 5 | 840 |
| 739 | Pasta - Linguini, Dry | 235 | 4 | 823 |
| 746 | Tray - 12in Rnd Blk | 411 | 5 | 806 |
| 791 | Wine - Mas Chicet Rose, Vintage | 109 | 1 | 815 |
| 793 | Shrimp - Black Tiger 16/20 | 247 | 4 | 800 |
| 795 | Sesame Seed Black | 123 | 1 | 827 |
+-----+-----+-----+-----+

```

Customers can also filter the desired product out by their name.

```

- - - - -
Enter your choice: 3
Enter the name: butter
+-----+-----+-----+-----+
| Product id | Name | Price | Rating | Current Stock |
+-----+-----+-----+-----+
| 731 | Butter - Salted | 357 | 4 | 95 |
| 799 | Butter Balls Salted | 177 | 2 | 89 |
| 800 | Butter Balls Freezed | 180 | 2 | 100 |
+-----+-----+-----+-----+

```

The last criteria for filtering products is rating for customers to get quality products.

```

- - - - -
Enter your choice: 4
The rating lies between 1 to 5
Enter the minimum rating: 4
Enter the maximum rating: 5
+-----+-----+-----+-----+
| Product id | Name | Price | Rating | Current Stock |
+-----+-----+-----+-----+
| 701 | Butcher Twine 4r | 340 | 4 | 148 |
| 706 | Longos - Burritos | 132 | 4 | 717 |
| 708 | Muffin Batt - Blueberry Passion | 306 | 5 | 310 |
| 712 | Wine - Penfolds Koonuga Hill | 160 | 5 | 301 |
| 713 | Wine - Jaboulet Cotes Du Rhone | 442 | 4 | 365 |
| 714 | Cheese - Manchego - Spanish | 237 | 4 | 822 |

```

Add desired product to cart

The customer is asked for the product id and quantity required of the desired product to be added to cart.

```

- - - - -
Enter your choice: 2
Enter the product id: 750
Enter the no of items 2
Product added to cart
- - - - -

```

See cart

The above option allows the customer to see all the products added in a detailed manner.


```

- - - - -
Enter your choice: 3
+-----+-----+-----+-----+
| Product id | Name | Price | Number of items | Total price |
+-----+-----+-----+-----+
| 750 | Cheese - Cheddar, Old White | 344 | 2 | 688 |
| 780 | Cheese - Cheddar, Mild | 414 | 3 | 1242 |
| 730 | Compound - Mocha | 297 | 1 | 297 |
| 744 | Boogies | 438 | 2 | 876 |
+-----+-----+-----+-----+

```

Remove desired product from cart

The customer is first shown their cart and then asked for the product they desire to be removed.

```

- - - - -
Enter your choice: 5
+-----+-----+-----+-----+
| Product id | Name | Price | Number of items | Total price |
+-----+-----+-----+-----+
| 750 | Cheese - Cheddar, Old White | 344 | 2 | 688 |
| 780 | Cheese - Cheddar, Mild | 414 | 3 | 1242 |
| 730 | Compound - Mocha | 297 | 1 | 297 |
| 744 | Boogies | 438 | 2 | 876 |
+-----+-----+-----+-----+
Enter the product id to be removed: 744
Product removed successfully
New cart after removing products
+-----+-----+-----+-----+
| Product id | Name | Price | Number of items | Total price |
+-----+-----+-----+-----+
| 750 | Cheese - Cheddar, Old White | 344 | 2 | 688 |
| 780 | Cheese - Cheddar, Mild | 414 | 3 | 1242 |
| 730 | Compound - Mocha | 297 | 1 | 297 |
+-----+-----+-----+-----+

```

Place order

The customer is first shown their cart and asked for confirmation whether they want to proceed with the order or not.

Enter your choice: 4

Product id	Name	Price	Number of items	Total price
750	Cheese - Cheddar, Old White	344	2	688
780	Cheese - Cheddar, Mild	414	3	1242
730	Compound - Mocha	297	1	297

Are you sure you want to proceed with the above order?

Type 'y' for YES or 'n' for returning to the previous menu: y

When the reply is in affirmation, the order is placed and the customer is provided with the bill.

BILL

Product id	Product name	Product price	No of items	Total price
750	Cheese - Cheddar, Old White	344	2	688
780	Cheese - Cheddar, Mild	414	3	1242
730	Compound - Mocha	297	1	297

Order placed successfully

Order id: 401

Assigned Delivery agent id: 590

Customer id: 101

Transaction id: 300

Date: 2023-04-24 04:06:51.259995

Bill amount: 2227

Check wallet

The above option helps to view the customer wallet details.

```
- - - - -  
Enter your choice: 8  
Wallet id: 1001  
Wallet name: Aditya  
Amount: 6773  
- - - - -
```

Add money to wallet

The customer is asked for authentication before looking into their wallet credentials after which they can add desired amount of money into the wallet.

```
- - - - -  
Enter your choice: 6  
Enter the following credentials for authentication  
Enter the email: aditya372@gmail.com  
Enter the password: Adi372@#  
Enter the amount: 3000  
Amount added successfully  
Previous amount: 3773  
Amount added: 3000  
Current amount: 6773  
- - - - -
```

Check orders placed

This allows the customer to check out the details of the orders placed.

Enter your choice: 7

Order id	Product id	Name	Price	Number of items	Total price
401	750	Cheese - Cheddar, Old White	344	2	688
401	780	Cheese - Cheddar, Mild	414	3	1242
401	730	Compound - Mocha	297	1	297

Order id: 401

Delivery agent id: 590

Customer id: 101

Transaction id: 300

Date: 2023-04-24 04:06:51

Order id	Product id	Name	Price	Number of items	Total price
402	756	Potatoes - Purple, Organic	310	3	930
402	703	Rice Wine - Aji Mirin	172	1	172
402	788	Pasta - Fettuccine, Egg, Fresh	223	2	446

Order id: 402

Delivery agent id: 542

Customer id: 101

Transaction id: 301

Date: 2023-04-24 11:26:03

Assigned delivery partner details

The above function allows a customer to check out the details of the person responsible for delivering an order.

Enter your choice: 10

Order id	Delivery partner id	Delivery partner name	Delivery partner phone number
401	590	Gretchen Stronghill	815 657 0027
402	542	Marius Overil	243 369 8827

Updating customer credentials

The credentials of a customer can change during the course of time. The above option helps the customer to update their details accordingly. Showcasing the example of updating a password, if the customer inputs the wrong password he/she will get the message of “Invalid password”.

```
- - - - -  
Enter your choice: 9  
What do you want to update?  
1. First name  
2. Last name  
3. Email  
4. Password  
5. Contact  
6. Date of birth  
7. Address  
8. Exit  
Enter your choice: 4  
Enter the old password: abcd  
Invalid Password
```

Successful example of password updation:

```
Enter your choice: 4
Enter the old password: hYAGtZqw
Enter the new password: hYAGt@#9
Password updated as desired
```

- - - - -

Logging in as an employee:

```
- - - - -
Are you a customer or an employee?
1. Customer
2. Employee
Enter your choice: 2
- - - - -
Enter credentials to login
Enter your email: bineet815@gmail.com
Enter your password: b7iLo4YYUi8
- - - - -
Login successful
Welcome Bineet Bhowmick
- - - - -
1. View products
2. Update Product
3. Add product
4. View Customer
5. View Orders
6. View Sold Items
7. View Delivery agent
8. View Transactions
9. Monthly sales revenue
10. Popularity of products in different regions
11. Sales revenue for each product
12. Number of deliveries by each delivery agent
13. View Customer location
13. Exit
- - - - -
```

View product

This function works the same for employees as it works for customers which has already been shown before.

Add product

This allows the employee to add a new product.

```

- - - - -
Enter your choice: 3
Enter the product name: Spinach Swiss
Enter the price: 210
Enter the stock: 150
Enter the rating: 4
Product added successfully
- - - - -

```

Update product

This helps the employees to update the credentials(stock, price) of desired product. Example showcasing price update is given below.

```

- - - - -
Enter your choice: 2
Enter the product id: 800
Displaying product details
Product id: 800
Product name: Spinach Swiss
Product price: 210
Stock: 150
rating 4
-----
Enter the details to be updated
1. Update product stock
2. Update product price
3. Delete a product
Enter your choice: 2
Enter the price: 190
Price updated successfully
- - - - -

```


Example showcasing deletion of product from database.

```

-----
Enter the details to be updated
1. Update product stock
2. Update product price
3. Delete a product
Enter your choice: 3
Are you sure you want to delete the above product?
Type 'y' for yes and 'n' for no: y
Product deleted successfully
-----

```

View functions

Customer, Orders placed, Sold Items, Transactions and employed delivery agents can all be viewed from the database using the view option. Example of viewing all customers is given below.

```

-----
Enter your choice: 4
-----+-----+-----+-----+-----+-----+-----+
| Customer id |      Email      | First Name | Last Name |   Phone   | date of birth | Wallet id |
+-----+-----+-----+-----+-----+-----+-----+
| 1 | vdennidge0@shareasale.com | Vlad | Dennidge | 815 769 9573 | 2022-11-19 00:00:00 | 900 |
| 2 | tberkelay1@census.gov | Tiffanie | Berkelay | 920 719 5070 | 2023-02-06 00:00:00 | 901 |
| 3 | hmousdall2@oracle.com | Haroun | Mousdall | 378 398 3114 | 2022-02-11 00:00:00 | 902 |
| 4 | paimson3@youku.com | Philippe | Aimson | 701 840 5107 | 2022-11-04 00:00:00 | 903 |
| 5 | jcoils4@mail.ru | Jacquelyn | Coils | 959 109 5949 | 2022-06-13 00:00:00 | 904 |
| 6 | cvelti5@cocolog-nifty.com | Chickie | Velti | 850 546 3630 | 2022-08-16 00:00:00 | 905 |
| 7 | ntointon6@hugedomains.com | Neala | Tointon | 926 964 0892 | 2022-04-28 00:00:00 | 906 |
| 8 | omillichin7@google.nl | Onfre | Millichin | 560 974 6823 | 2022-10-28 00:00:00 | 907 |

```

Best monthly sales revenue

The above option allows an employee to look into monthly sales revenue of the company in descending order.

ar All for your choice: 9

BEST MONTHLY SALES REVENUE

Year	Month	Total Amount
2022	12	15459
2022	9	9884
2022	6	8971
2022	5	8893
2022	3	8686
2022	8	8461
2022	2	6868
2023	1	5840
2022	7	5744
2022	4	5271
2022	10	4011
2022	11	3822
2023	2	2556

Popularity of products in different regions

This option allows the employee to look into sales of a product in different regions for evaluating popularity of products in different regions.

```

- - - - -
Enter your choice: 10
POPULARITY OF PRODUCTS IN VARIOUS REGIONS
+-----+-----+-----+
| City | Quantity sold | Product name |
+-----+-----+-----+
| Delhi | 5 | Rice Wine - Aji Mirin |
| Delhi | 5 | Table Cloth 72x144 White |
| Delhi | 5 | Compound - Mocha |
| Delhi | 5 | Soup - Knorr, Classic Can. Chili |
| Kolkata | 5 | Tomatoes - Vine Ripe, Red |
| Kolkata | 5 | Wine - Red, Concha Y Toro |
| Kolkata | 5 | Graham Cracker Mix |
| Kolkata | 5 | Water, Tap |
| Kolkata | 5 | Chilli Paste, Ginger Garlic |
| Mumbai | 5 | Cinnamon Buns Sticky |
| Mumbai | 5 | Bread - KimeL Stick Poly |
| Mumbai | 5 | Chilli Paste, Ginger Garlic |
| Mumbai | 5 | Boogies |
| Mumbai | 5 | Fudge - Cream Fudge |

```

Sales revenue for each product in descending order

This option allows an employee to look at which products have generated the most revenue.

Enter your choice: **11**

SALES REVENUE FOR EACH PRODUCT

Product ID	Product name	Total quantity sold	Revenue of product
784	Hot Choc Vending	12	5544
775	Oil - Hazelnut	11	4169
730	Compound - Mocha	12	3564
781	Chilli Paste, Ginger Garlic	18	3456
723	Lidsoupcont Rp12dn	10	3330
763	Muffin - Banana Nut Individual	6	2910
704	Lentils - Green, Dry	6	2880
738	Smirnoff Green Apple Twist	6	2400
744	Boogies	5	2190
792	Veal Inside - Provimi	14	2170
734	Tomatoes - Vine Ripe, Red	5	2155

Number of deliveries made by an agent

Delivery Agent ID	First name	Last Name	Number of deliveries
537	Anica	Aberdalgy	4
502	Brose	Lotze	3
590	Gretchen	Stronghill	3
505	Hettie	Riggert	3
568	Kipp	Dorning	3
534	Nanon	Spenton	3
526	Jolee	Dunbobbin	3
524	Samaria	Larrie	3
599	Patrizius	Ashbury	2