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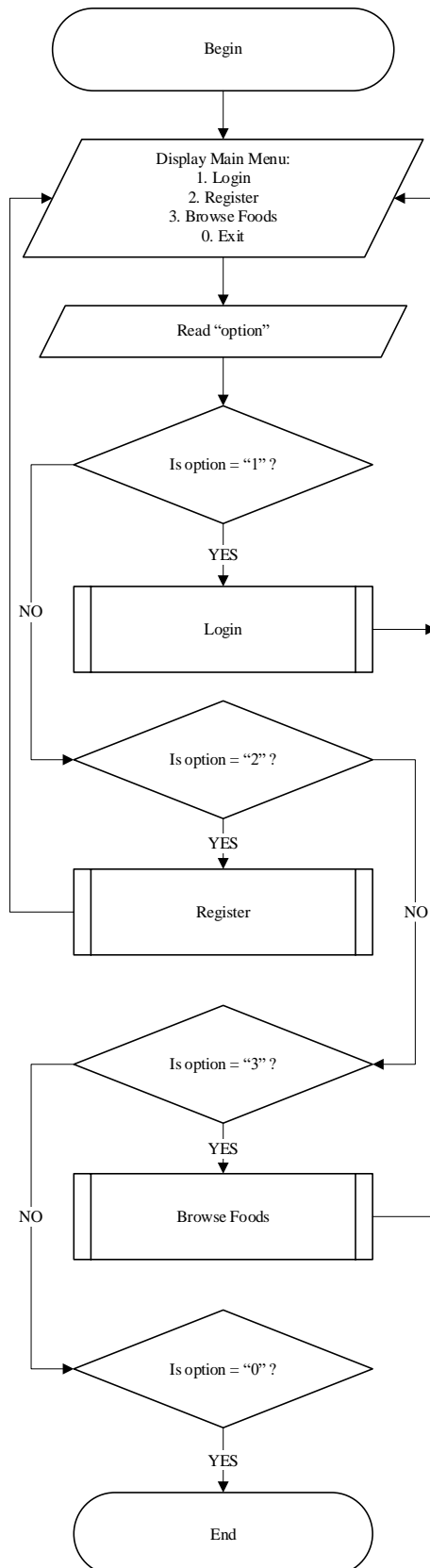
## **ASSUMPTIONS**

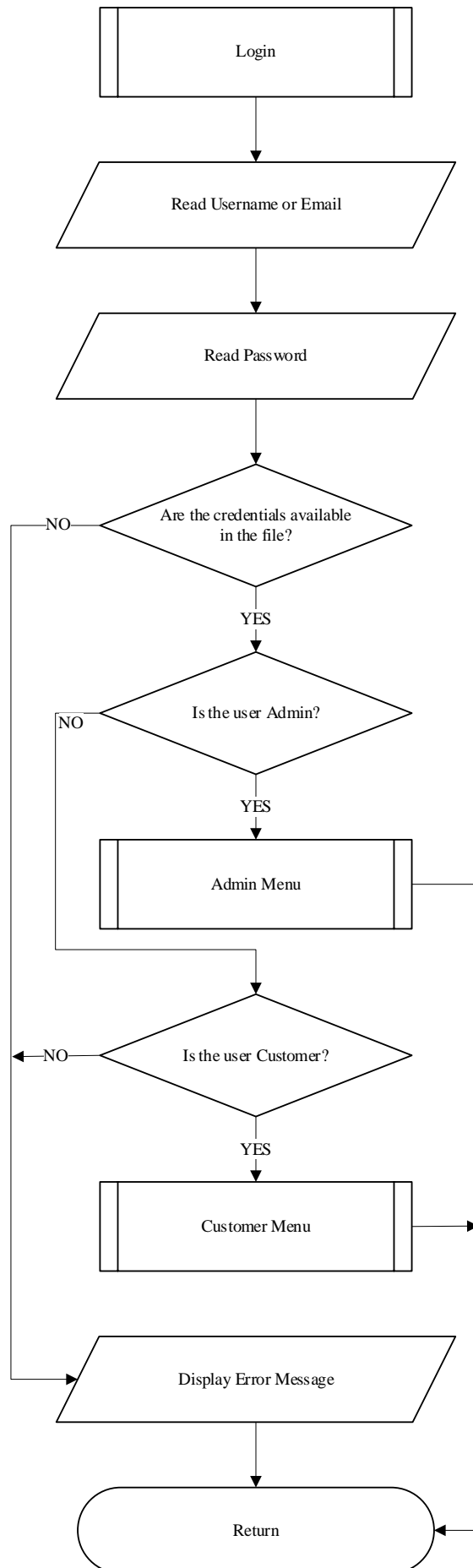
I started designing the program with some assumptions. Some of the important assumptions I have made are following.

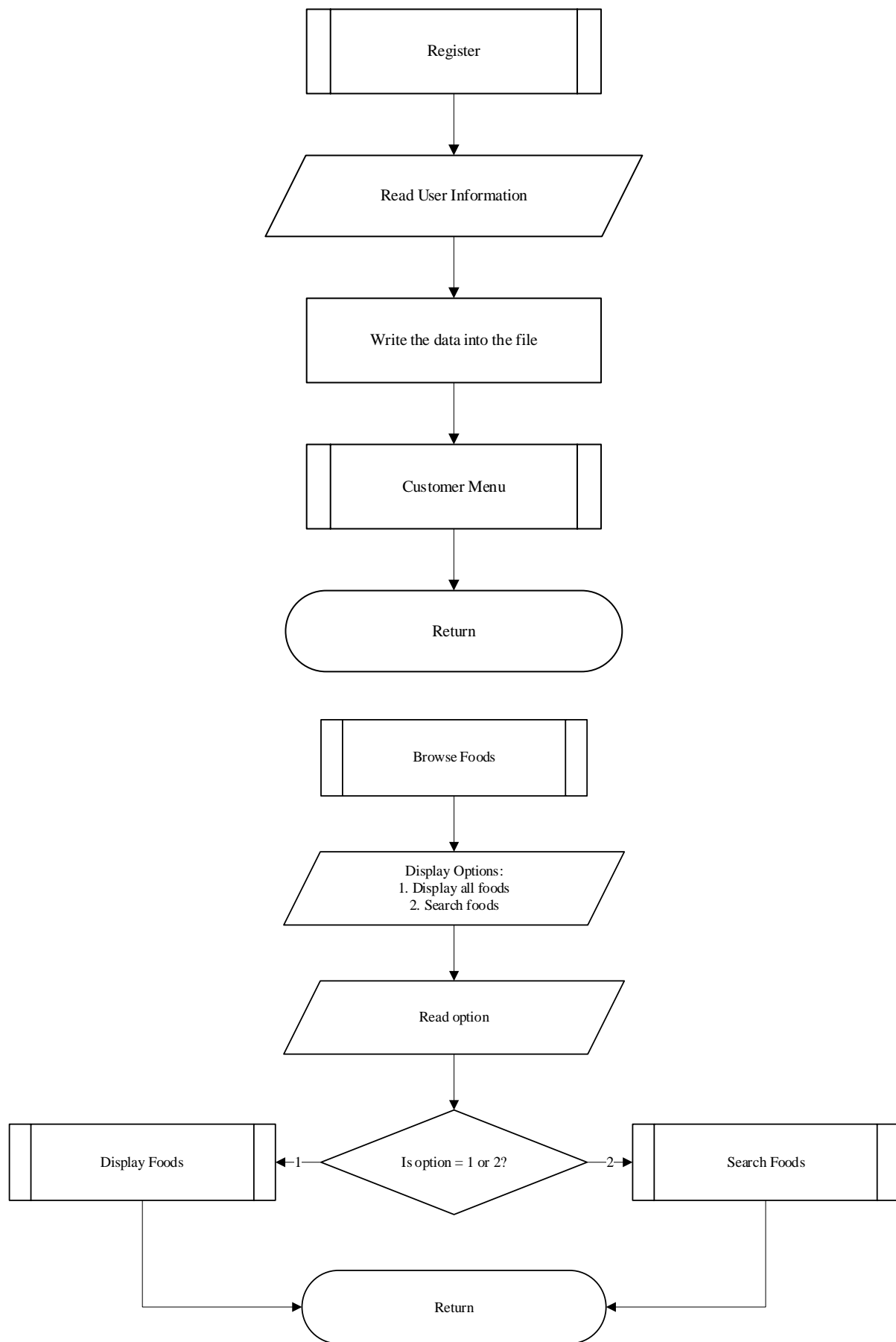
- There will be only one admin in the program.
- The paid order means completed order.
- Deleting a category will delete all the items under that category.
- The only payment method is using debit/credit card.
- All the cards being used in the program are valid, have enough money and successfully complete payments.

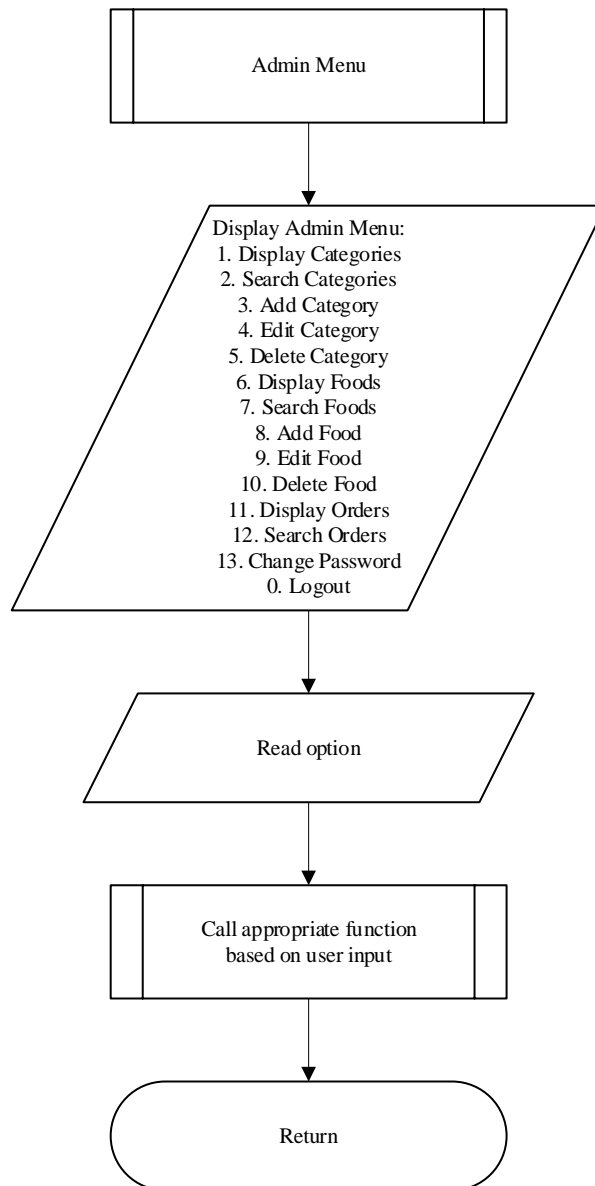
# DESIGN FLOW

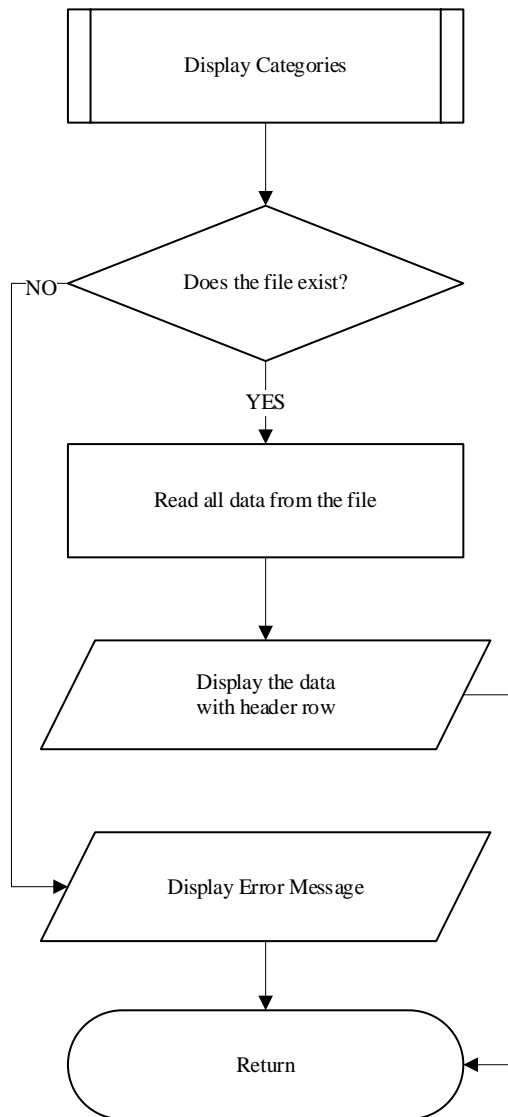
## FLOW CHART

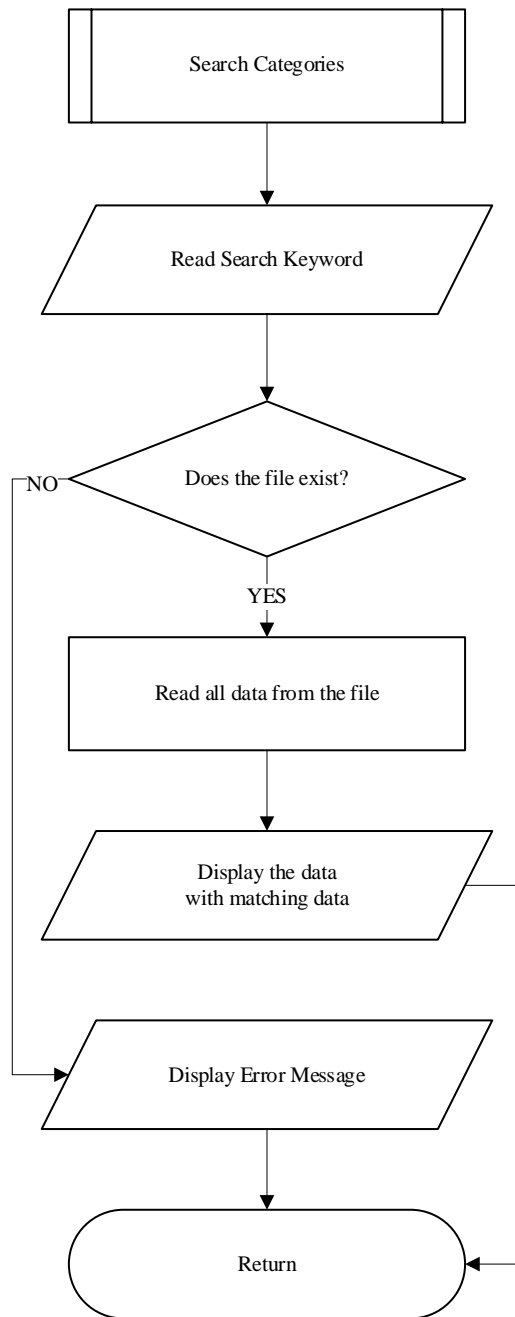




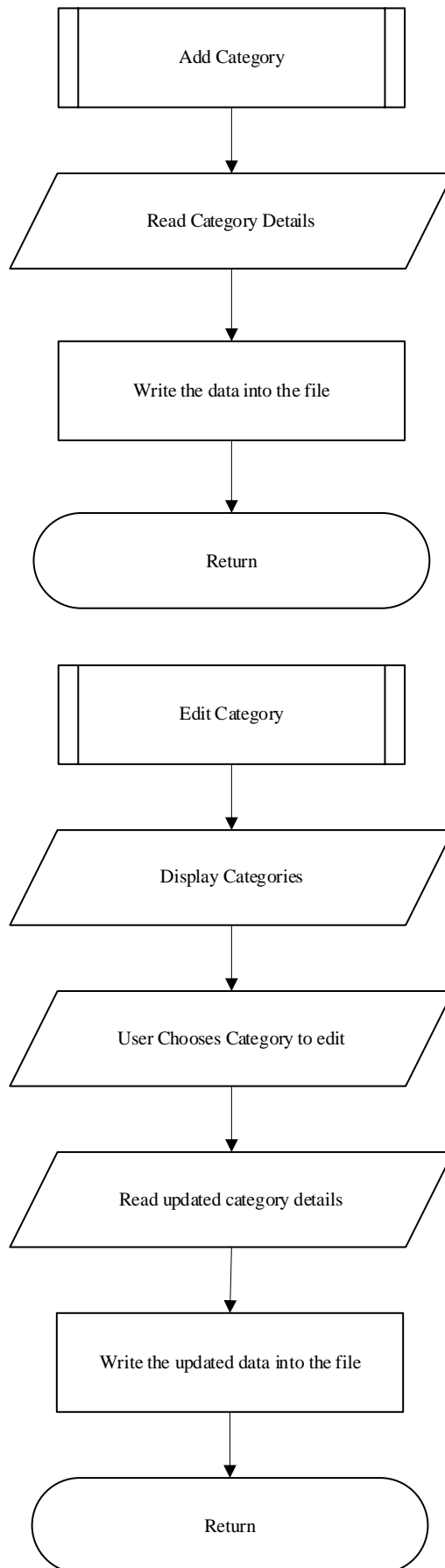


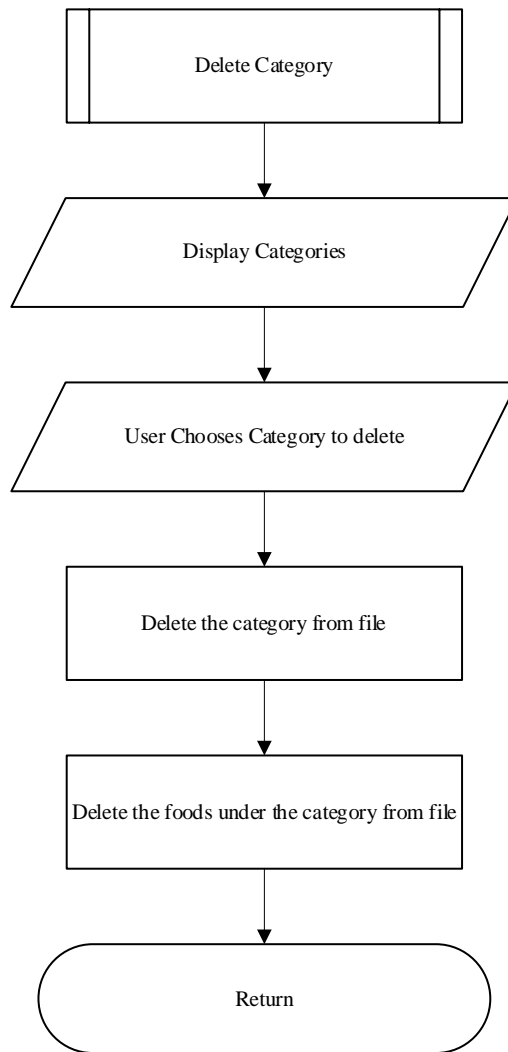


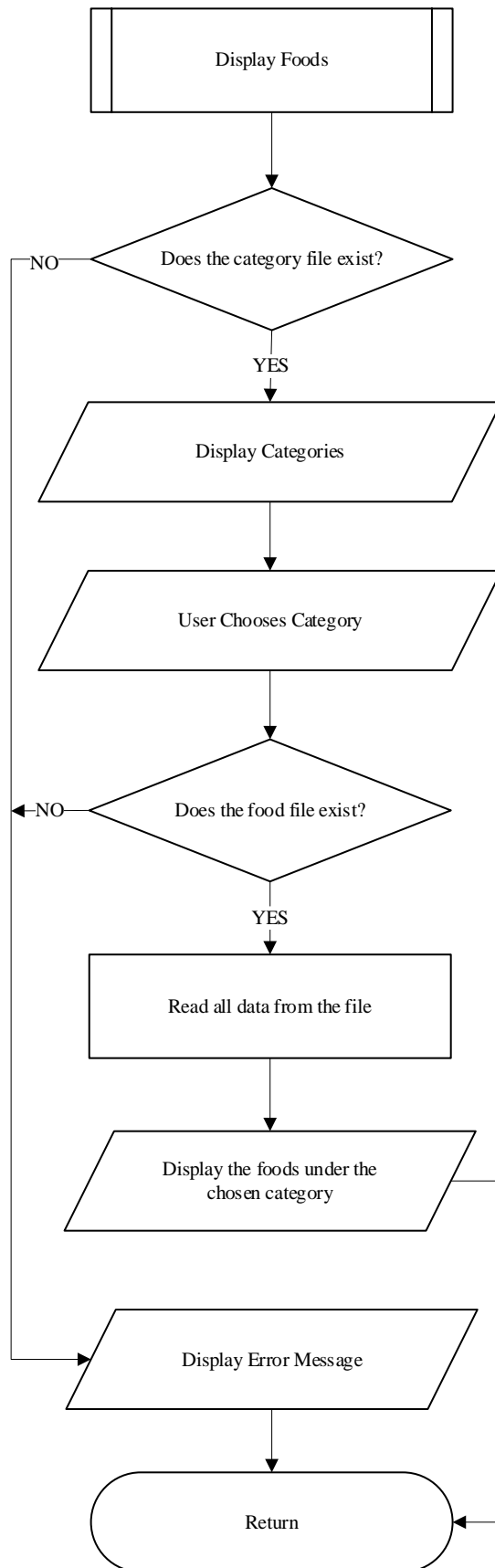


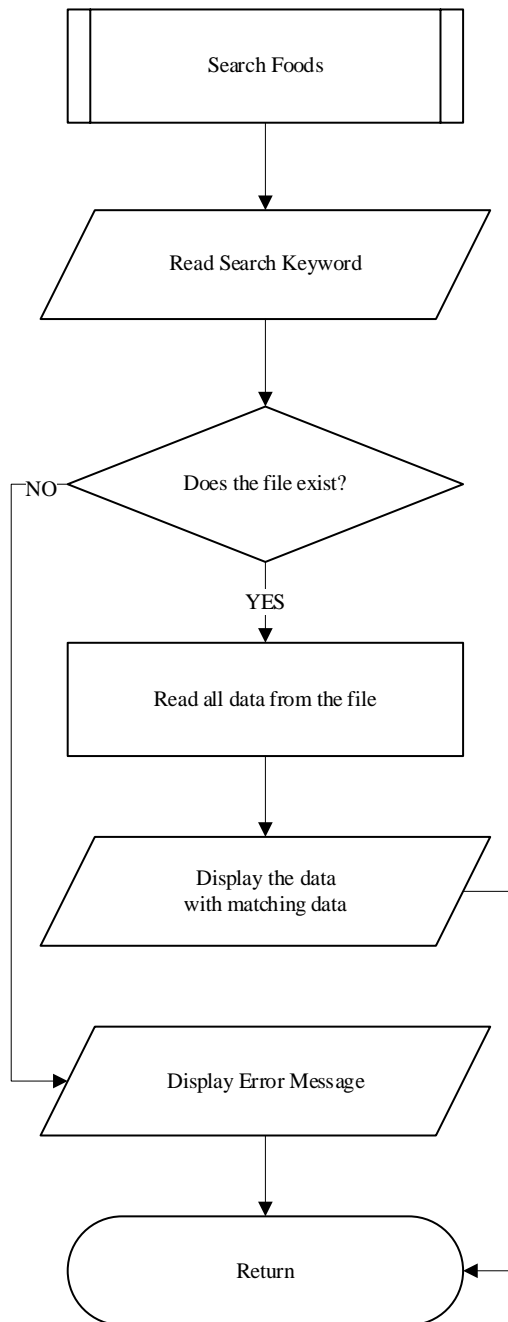


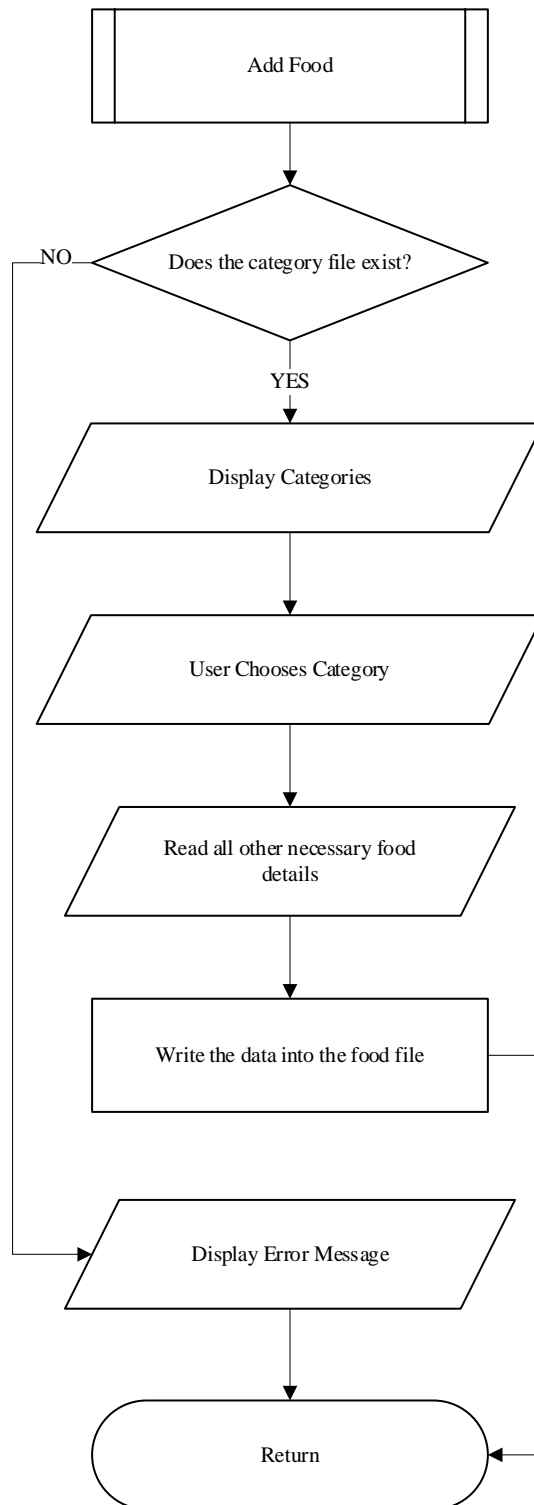


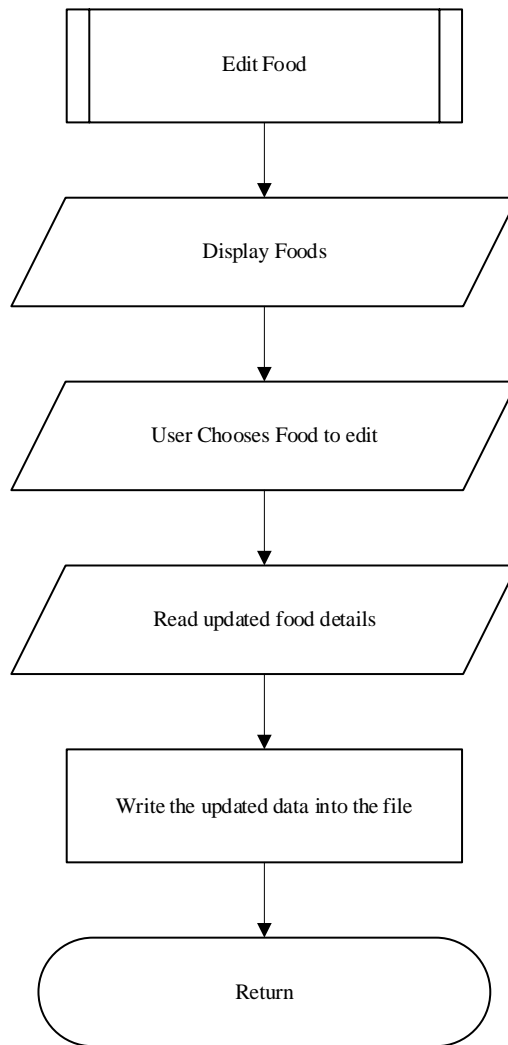


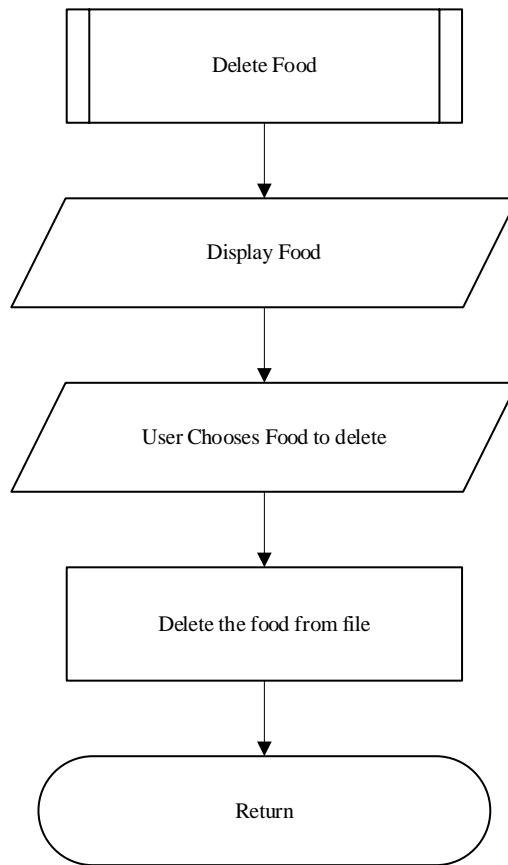


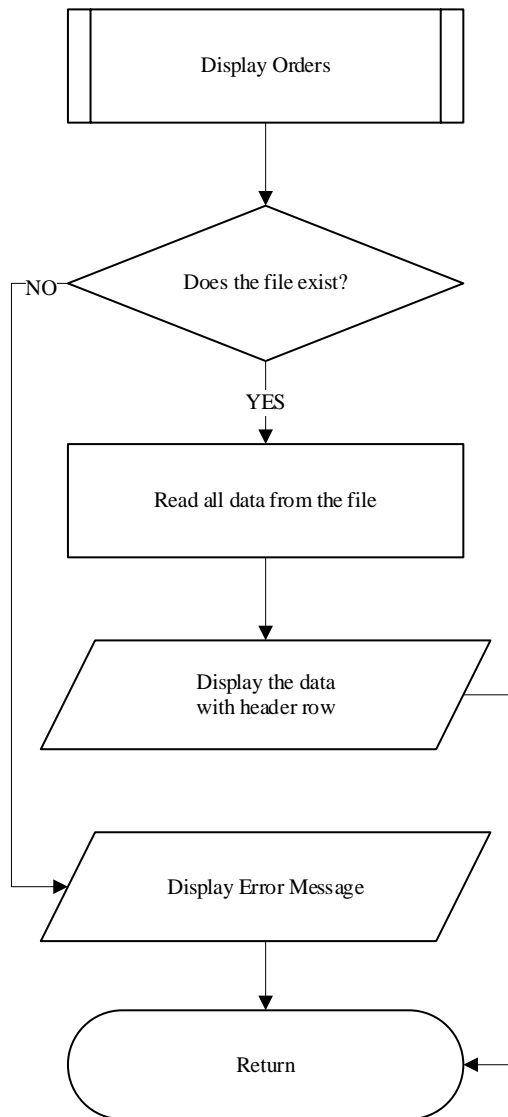




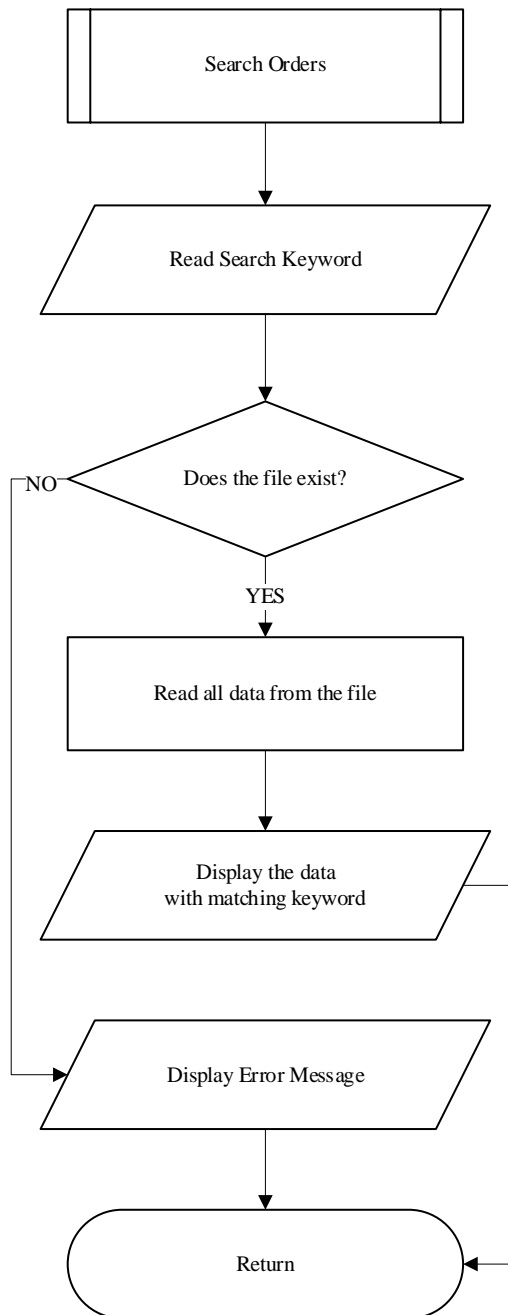


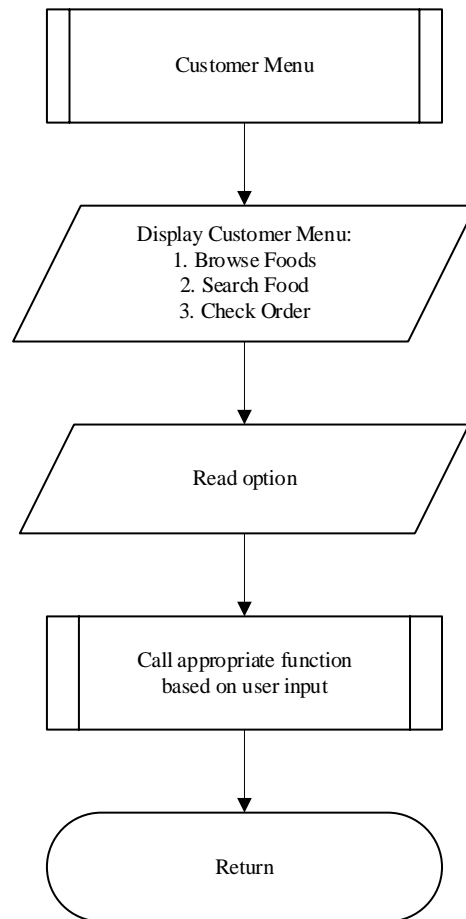


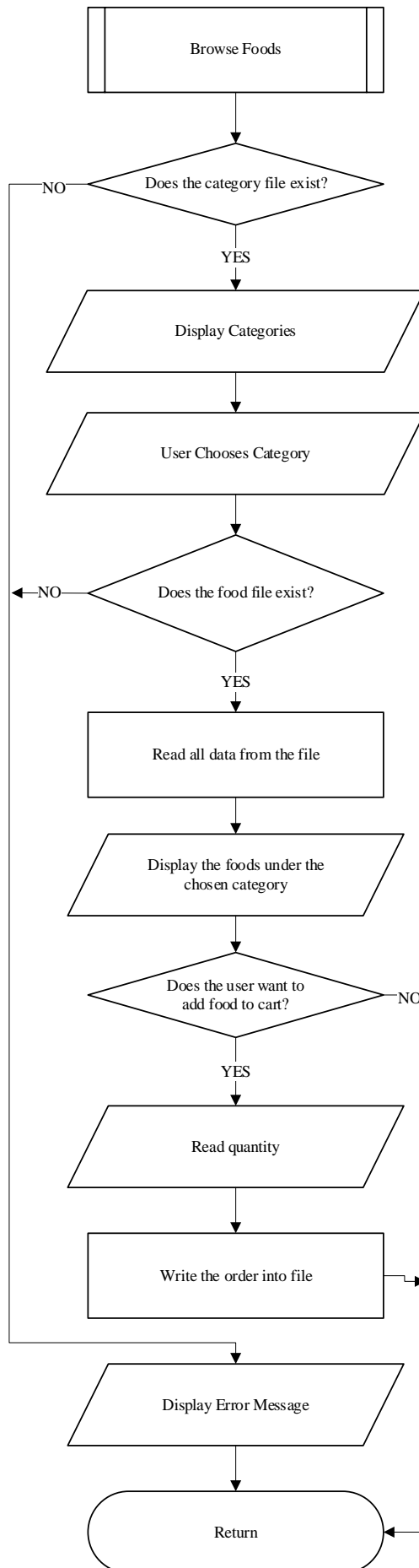


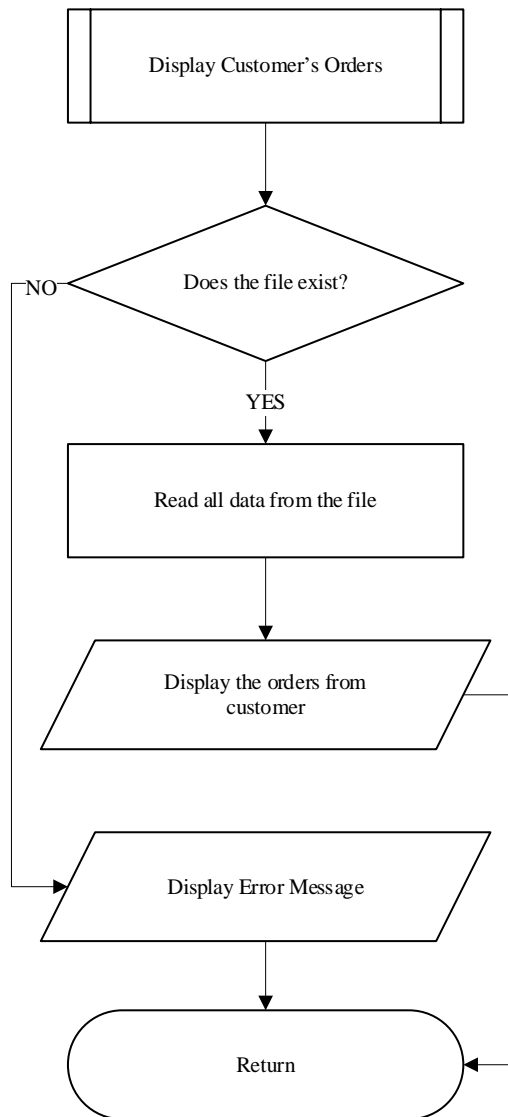












## **PSEUDO CODE**

BEGIN

    DISPLAY Main Menu

    DISPLAY “1. Login”

    DISPLAY “2. Register”

    DISPLAY “3. Browse Foods”

    DISPLAY “0. Exit”

    READ option

    IF option = 1

        CALL Login

    ELSE

        IF option = 2

            CALL Register

        ELSE

            IF option = 3

                CALL Browse Foods

            ENDIF

        ENDIF

    ENDIF

END

FUNCTION Login

    READ Username or Email

    READ Password

    IF the credentials available in the file

        IF the user is an admin

            CALL Admin Menu

        ELSE

            IF the user customer

                CALL Customer Menu

            ELSE

                DISPLAY Error Message

            ENDIF

```
        ENDIF
    ELSE
        DISPLAY Error Message
    ENDIF
ENDFUNCTION
```

```
FUNCTION Register
    READ User Information
    WRITE the information into file
    CALL Customer Menu
ENDFUNCTION
```

```
FUNCTION Browse Foods
    DISPLAY "1. Display all foods"
    DISPLAY "2. Search foods"
    READ option
    IF option = 1
        CALL Display Foods
    ELSE
        IF option = 2
            CALL Search Foods
        ELSE
            DISPLAY Error Message
        ENDIF
    ENDIF
ENDFUNCTION
```

```
FUNCTION Admin Menu
    DISPLAY Admin Menu
    DISPLAY "1. Display Categories"
    DISPLAY "2. Search Categories"
    DISPLAY "3. Add Category"
    DISPLAY "4. Edit Categor"
```

```
    DISPLAY "5. Delete Category"
    DISPLAY "6. Display Foods"
    DISPLAY "7. Search Foods"
    DISPLAY "8. Add Food"
    DISPLAY "9. Edit Food"
    DISPLAY "10. Delete Food"
    DISPLAY "11. Display Orders"
    DISPLAY "12. Search Orders"
    CALL appropriate function based on user choice
ENDFUNCTION
```

```
FUNCTION Display Categories
    IF the file exist
        READ all data from the file
        DISPLAY all data with header row
    ELSE
        DISPLAY Error Message
    ENDIF
ENDFUNCTION
```

```
FUNCTION Search Categories
    READ Search Keyword
    IF the file exist
        READ all data from the file
        DISPLAY all data with matching keyword
    ELSE
        DISPLAY Error Message
    ENDIF
ENDFUNCTION
```

```
FUNCTION Add Category
    READ Category Details from user
    WRITE the data into the file
ENDFUNCTION
```

#### FUNCTION Edit Category

```
IF the file exist
    READ all data from the file
    DISPLAY all data with header row
    READ category ID from user
    READ new category details
    WRITE the updated data into the file
ELSE
    DISPLAY Error Message
ENDIF
```

ENDFUNCTION

#### FUNCTION Delete Category

```
IF the file exist
    READ all data from the file
    DISPLAY all data with header row
    READ category ID from user
    DELETE the category from the file
    DELETE all items under the chosen category
ELSE
    DISPLAY Error Message
ENDIF
```

ENDFUNCTION

#### FUNCTION Display Foods

```
IF the category file exist
    READ all data from the file
    DISPLAY all data with header row
    READ category ID from user
    IF the food file exist
        READ all data from the file
        DISPLAY food under the chosen category
    ELSE
        DISPLAY error message
    ENDIF
ENDIF
```



```

        ENDIF
    ELSE
        DISPLAY error message
    ENDIF
ENDFUNCTION

FUNCTION Search Foods
    READ Search Keyword
    IF the file exist
        READ all data from the file
        DISPLAY all data with matching keyword
    ELSE
        DISPLAY Error Message
    ENDIF
ENDFUNCTION

FUNCTION Add Food
    IF the file category file exist
        READ all data from the file
        DISPLAY all categories with header row
        READ category ID from user
        READ all other food details
        WRITE the data into the food file
    ELSE
        DISPLAY Error Message
    ENDIF
ENDFUNCTION

FUNCTION Edit Food
    IF the file exist
        READ all data from the file
        DISPLAY all data with header row
        READ food ID from user
        READ new food details

```

```
        WRITE the updated data into the file
    ELSE
        DISPLAY Error Message
    ENDIF
ENDFUNCTION
```

```
FUNCTION Delete Food
    IF the file exist
        READ all data from the file
        DISPLAY all data with header row
        READ food ID from user
        DELETE the food from the file
    ELSE
        DISPLAY Error Message
    ENDIF
ENDFUNCTION
```

```
FUNCTION Display Orders
    IF the file exist
        DISPLAY all data from the file
    ELSE
        DISPLAY Error Message
    ENDIF
ENDFUNCTION
```

```
FUNCTION Search Orders
    READ Search Keyword
    IF the file exist
        READ all data from the file
        DISPLAY all data with matching keyword
    ELSE
        DISPLAY Error Message
    ENDIF
ENDFUNCTION
```

```
FUNCTION Customer Menu
    DISPLAY Customer Menu
    DISPLAY "1. Browse Foods"
    DISPLAY "2. Search Foods"
    DISPLAY "3. Check Order"
    CALL appropriate function based on user choice
ENDFUNCTION
```

```
FUNCTION Browse Foods
    IF the category file exist
        READ all category details from file
        DISPLAY category details
        READ category ID
        IF the food file exist
            READ quantity
            WRITE the order into file
        ELSE
            DISPLAY error message
        ENDIF
    ELSE
        DISPLAY error message
    ENDIF
ENDFUNCTION
```

```
FUNCTION Customer's Orders
    IF the file exist
        READ all data from the file
        DISPLAY all orders from customer
    ELSE
        DISPLAY Error Message
    ENDIF
ENDFUNCTION
```

## SAMPLE INPUT/OUTPUT

```
Welcome to SOFS

Which type of user are you:
1. Login
2. Register
3. Browse Foods
0. Exit
Enter choice: 3
1. Browse through categories
2. Search food
Enter your choice: 1
Category ID      Category Name
0001      Breakfast
0002      Lunch
0003      Dinner
0004      Snacks

Choose a category ID: 0004

Food ID FoodName
0001      Nuts
0002      Oreo
Please login as a customer to get more details about the foods. Thank you.
```

```
Welcome to SOFS

Which type of user are you:
1. Login
2. Register
3. Browse Foods
0. Exit
Enter choice: 3
1. Browse through categories
2. Search food
Enter your choice: 2
Search Key: oreo

Food ID FoodName
0002      Oreo
Please login as a customer to get more details about the foods. Thank you.
```

```
Welcome to SOFS

Which type of user are you:
1. Login
2. Register
3. Browse Foods
0. Exit
Enter choice: 2
Welcome new user!
Enter Name: Customer Two
Enter Email: customer2@gmail.com
Enter Phone Number: 01132121
Enter Password: 123123123
Enter Address: Selangor
```

```

Welcome to SOFS

Which type of user are you:
1. Login
2. Register
3. Browse Foods
0. Exit
Enter choice: 1

Please choose an option:

1. Customer Login
2. Admin Login
0. Go Back

Enter option: 1
Email: customer2@gmail.com
Password: 123123123
Welcome Back Customer Two!

Customer Menu
1. Browse Foods
2. Search Food
3. Check Orders
0. Logout

```

```

Welcome Back Customer Two!

Customer Menu
1. Browse Foods
2. Search Food
3. Check Orders
0. Logout
Enter your choice: 1
Category ID      Category Name
0001      Breakfast
0002      Lunch
0003      Dinner
0004      Snacks

Choose a category ID: 0004

Food ID Food Name      Quantity      Price
0001      Nuts      1      2
0002      Oreo      2      3
Anything of your interest? Want to add to cart? [Yes/No]: y
Enter Food ID: 0002
Enter Quantity: 1

Your total is RM 3
Pay by card
Cancel payment by entering '-1'
Card Number: 3215135135135
Expiry Date[MM/YY]: 12/25
CVV: 123

```

```

Customer Menu
1. Browse Foods
2. Search Food
3. Check Orders
0. Logout
Enter your choice: 3

```

Order ID	Status	Payment Method	Address	Food ID	Food Name	FoodQty	FoodPrice	Total
000001	Paid	Card-1315	ASDASDASDASD	0001	Nuts	2	4	
000002	Paid	Card-5135	ASDASDASDASD	0002	Oreo	5	15	
000003	Paid	Card-3511	ASDASDASDASD	0001	Nuts	2	4	

```
Admin Menu:
  1. Display Categories
  2. Search Categories
  3. Add Category
  4. Edit Category
  5. Delete Category
  6. Display Foods
  7. Search Foods
  8. Add Food
  9. Edit Food
  10. Delete Food
  11. Display Orders & Payments
  12. Search Orders & Payments
  13. Change Password
  0. Logout

Choose an operation: 1

Category ID      Category Name
0001      Breakfast
0002      Lunch
0003      Dinner
0004      Snacks
```

```
Admin Menu:
  1. Display Categories
  2. Search Categories
  3. Add Category
  4. Edit Category
  5. Delete Category
  6. Display Foods
  7. Search Foods
  8. Add Food
  9. Edit Food
  10. Delete Food
  11. Display Orders & Payments
  12. Search Orders & Payments
  13. Change Password
  0. Logout

Choose an operation: 2

Enter a search keyword: dinner

Category ID      Category Name
0003      Dinner

Total Categories Found: 1
```

```
Admin Menu:
  1. Display Categories
  2. Search Categories
  3. Add Category
  4. Edit Category
  5. Delete Category
  6. Display Foods
  7. Search Foods
  8. Add Food
  9. Edit Food
  10. Delete Food
  11. Display Orders & Payments
  12. Search Orders & Payments
  13. Change Password
  0. Logout

Choose an operation: 3

Category Name: Drinks
New category added successfully
```

```
Admin Menu:
  1. Display Categories
  2. Search Categories
  3. Add Category
  4. Edit Category
  5. Delete Category
  6. Display Foods
  7. Search Foods
  8. Add Food
  9. Edit Food
  10. Delete Food
  11. Display Orders & Payments
  12. Search Orders & Payments
  13. Change Password
  0. Logout

Choose an operation: 4

Category ID      Category Name
0001      Breakfast
0002      Lunch
0003      Dinner
0004      Snacks
0005      Drinks

Choose a category ID: 0005
Current Category Name: Drinks

New Category Name: Drink
Category updated successfully
```

```
Admin Menu:
  1. Display Categories
  2. Search Categories
  3. Add Category
  4. Edit Category
  5. Delete Category
  6. Display Foods
  7. Search Foods
  8. Add Food
  9. Edit Food
  10. Delete Food
  11. Display Orders & Payments
  12. Search Orders & Payments
  13. Change Password
  0. Logout

Choose an operation: 5

Category ID      Category Name
0001      Breakfast
0002      Lunch
0003      Dinner
0004      Snacks
0005      Drink

Choose a category ID: 0005
Are you sure you want to delete the category along with all the foods under it? [Y/N]: y
Category successfully deleted
```

```

Admin Menu:
  1. Display Categories
  2. Search Categories
  3. Add Category
  4. Edit Category
  5. Delete Category
  6. Display Foods
  7. Search Foods
  8. Add Food
  9. Edit Food
  10. Delete Food
  11. Display Orders & Payments
  12. Search Orders & Payments
  13. Change Password
  0. Logout

Choose an operation: 6

1. Display all foods
2. Display Category-wise
Choose an option: 1
Food ID Food Name      Category ID  Category Name  Qty  Price
0001    Nuts      0004    Snacks    0    2
0002    Oreo      0004    Snacks    2    3

```

```

Admin Menu:
  1. Display Categories
  2. Search Categories
  3. Add Category
  4. Edit Category
  5. Delete Category
  6. Display Foods
  7. Search Foods
  8. Add Food
  9. Edit Food
  10. Delete Food
  11. Display Orders & Payments
  12. Search Orders & Payments
  13. Change Password
  0. Logout

Choose an operation: 8

Category ID    Category Name
0001    Breakfast
0002    Lunch
0003    Dinner
0004    Snacks

Choose a category ID: 0001
Food Name: Nasi Lemak
Food Quantity: 10
Food Price: 7

```



```

Admin Menu:
  1. Display Categories
  2. Search Categories
  3. Add Category
  4. Edit Category
  5. Delete Category
  6. Display Foods
  7. Search Foods
  8. Add Food
  9. Edit Food
  10. Delete Food
  11. Display Orders & Payments
  12. Search Orders & Payments
  13. Change Password
  0. Logout

Choose an operation: 9

Food ID Food Name      Category ID  Category Name  Qty    Price
0001    Nuts      0004    Snacks    0        2
0002    Oreo      0004    Snacks    2        3
0003    Nasi Lemak  0001    Breakfast  10       7.0

Choose an food ID: 0003

Current Food Name: Nasi Lemak
New Food Name: Nasi Lemak

Current Food Quantity: 10
New Food Quantity: 10

Current Food Price: 7.0
New Food Price: 7.5

Current Food Category: 0001

Category ID    Category Name
0001    Breakfast
0002    Lunch
0003    Dinner
0004    Snacks

Choose New category ID: 0001

```

```

Admin Menu:
  1. Display Categories
  2. Search Categories
  3. Add Category
  4. Edit Category
  5. Delete Category
  6. Display Foods
  7. Search Foods
  8. Add Food
  9. Edit Food
  10. Delete Food
  11. Display Orders & Payments
  12. Search Orders & Payments
  13. Change Password
  0. Logout

Choose an operation: 11

Order ID    Customer ID    Status    Payment Method    Address    Food ID    Food Name    FoodQty    FoodPrice    Total
000001    000002    Paid    Card-1315    ASDASDASDASD    0001    Nuts    2        2        4
000002    000002    Paid    Card-5135    ASDASDASDASD    0002    Oreo    5        3        15
000003    000002    Paid    Card-3511    ASDASDASDASD    0001    Nuts    2        2        4
000004    000003    Paid    Card-5135    Selangor    0002    Oreo    1        3        3

```

```

Admin Menu:
  1. Display Categories
  2. Search Categories
  3. Add Category
  4. Edit Category
  5. Delete Category
  6. Display Foods
  7. Search Foods
  8. Add Food
  9. Edit Food
  10. Delete Food
  11. Display Orders & Payments
  12. Search Orders & Payments
  13. Change Password
  0. Logout

Choose an operation: 12

Search Keyword: oreo
Order ID      Customer ID    Status  Payment Method  Address  Food ID  Food Name  FoodQty  FoodPrice  Total
000002  000002  Paid    Card-5135      ASDASDASDASD  0002    Oreo      5        3        15
000004  000003  Paid    Card-5135      Selangor      0002    Oreo      1        3        3

```

```

Admin Menu:
  1. Display Categories
  2. Search Categories
  3. Add Category
  4. Edit Category
  5. Delete Category
  6. Display Foods
  7. Search Foods
  8. Add Food
  9. Edit Food
  10. Delete Food
  11. Display Orders & Payments
  12. Search Orders & Payments
  13. Change Password
  0. Logout

Choose an operation: 13

Enter Current Password: 123123123
Enter New Password: 123123

```