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# REQUIREMENTS

A list of items on a white background

Description automatically generated

# 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

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

Text

Description automatically generated

Text

Description automatically generated

Text

Description automatically generated

Text

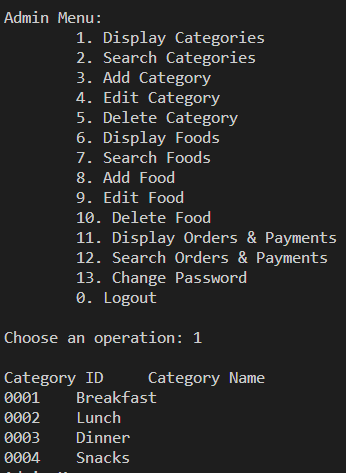
Description automatically generated

Text

Description automatically generated

Text

Description automatically generated



Text

Description automatically generated

Text

Description automatically generated

A screenshot of a computer

Description automatically generated with medium confidence

Text

Description automatically generated

Text

Description automatically generated

A screenshot of a computer

Description automatically generated with medium confidence

Text

Description automatically generated

Text

Description automatically generated with medium confidence

A picture containing text

Description automatically generated

Text

Description automatically generated