**Lunch To Go**

**Jordan McElwee and Treety Farahmand M.**

**Content**

1. **Algorithm**
2. **Data-Dictionary**
3. **Script**
4. **Story Boarding**
5. **Sample Testing**

**1. Algorithm**

**Jordan McElwee**

**Main**

**-------------------------------------------------------------------------------------------**

**Treety Farahmand Mazdai**

**12/12/2021**

**Main**

**-------------------------------------------------------------------------------------------**

{

**Declare variables**

Creating Array Lists of Strings and Double for printing the recipe

Creating Array Lists of Strings and Double for printing the menu of Sandwich Content

Storing the sandwich content variety in the Array Lists of String.

Begin the do while Loop

**do**

{

Printing the **Bread** choices and input choice

Adding to the Sandwich Content Array List

Displaying the chosen Bread type

Adding to the Array List of Sandwich Content String

Adding one to the integer number of Content

Printing the **Spread** choices and input choice

Adding the input to the Sandwich Content Array List

Displaying the chosen Spread type

Adding to the Array List of Sandwich Content String

Adding one to the integer number of Content

Printing the **Meat** choices and input choice

Adding the input to the Sandwich Content Array List

Adding to the Array List of Sandwich Content String

Displaying the chosen Meat type

Adding one to the integer number of Content

Giving the option of any extra meat.

Begin the while Loop for extra meat option

**While** reply extras meat = 'Y'

{

Printing the **Meat** choices and input choice

Adding the extra meat choice to the Array List of Sandwich Extra Content String

Adding the extra meat choice to the sandwich content basket

Displaying the chosen Meat type

Adding one to the integer number of Extras

Adding 60 pence to the basket sandwich price when the extra meat is chosen and to the Sandwich Price Basket

Giving the option of any extra meat

}

Giving the option of any salad at all

if reply = 'Y'

{

Printing the **Salad** choices and input choice

Adding the first salad to the Sandwich Content Array List

Displaying the first chosen Salad type

Adding one to the integer number of Content

Giving the option of the second salad

Starting an if statement

if reply = 'Y'

{

Printing the Salad choices and input choice

Adding the second salad to the Sandwich Content Array List

Displaying the second chosen Salad type

Adding one to the integer number of Content

Giving the option of extra salad

While reply = ‘Y’

{

Printing the Salad choices and input choice

Adding the extra salad to the Sandwich Extra Content Array List

Displaying the extra chosen Salad type

Adding one to the integer number of Extras

Adding 35 pence to the sandwich Extra Price Basket and

to the Sandwich Price Basket

Giving the option of extra salad

}

Printing the Sauce choices and input choice

Adding the sauce to the Sandwich Content Array List

Displaying the chosen Sauce type

Adding one to the integer number of Content

}

**else**

{

Printing the Sauce choices and input choice

Adding the sauce to the Sandwich Content Array List

Displaying the chosen Sauce type

Adding one to the integer number of Content

} End of the inner if else

}

**else**

{

Printing the Sauce choices and input choice

Adding the sauce to the Sandwich Content Array List

Displaying the chosen Sauce type

Adding one to the integer number of Content

} End of the outer if else

Adding to the number of Sandwich

Adding £3.00 to the sandwich price basket

Giving the option of check out

}

While reply checkout = ‘N’

**End of do while loop** for choosing sandwich content.

Printing the order preview for the sandwich

Using for Loop for each sandwich content and price

{

It runs to the maximum number of sandwich content

}

Using for Loop for extras and their price

{

It runs to the maximum number of extras

}

Printing the total bill for the sandwich order which is sandwich price basket(Double).

}**End main** program

**Methods**

**-------------------------------------------------------------------------------------------**

1. **Method for** printing the **Bread** Menu

{

Defining an array list for verifying the bread types.

Adding the bread types to the array list.

Printing the Bread choices in a table

}

**2. Method for** printing the **Spread** Menu

{

Defining an array list for verifying the spread types.

Adding the spread types to the array list.

Printing the Spread choices in a table

}

**3. Method** for printing the **Meat** Menu

{

Defining an array list for verifying the meat types.

Adding the meat types to the array list.

Printing the Meat choices in a table

}

**4. Method** for printing the **Salad** Menu

{

Defining an array list for verifying the salad types.

Adding the salad types to the array list.

Printing the Salad choices in a table

}

**5. Method** for printing the **Sauce** Menu

{

Defining an array list for verifying the sauce types.

Adding the sauce types to the array list.

Printing the Sauce choices in a table

}

}

**2. Data-Dictionary**

# DATA DICTIONARY

Created by Jordan McElwee - Red

|  |  |  |  |
| --- | --- | --- | --- |
| **FIELD NAME** | **DATA TYPE** | **DESCRIPTION** | **EXAMPLE** |
| basketItems | **Global** String  *Arraylist* | Contains the names of each item added from two different array lists such as our bread and hot food | If lasagne is chosen then (index 0) = “**Lasagne**” |
| hotFoodArray | **Global** String  *Arraylist* | Containing all of the hot food items outlined in Appendix B: Hot Food Price List. | hotFoodArray.add(“**Burger**”) |
| hotFoodMeal | **Global** String  *Arraylist* | Strings containing the type of meal deals on offer which are displayed to the customer on the hot food selection screen. | **“+ 1 side £5.00”** |
| hotFoodPrice | **Global** Double  *Arraylist* | Prices of the hot food items. Items and prices with the same index will be matched with each other on the menu. | (index 0) = £**4.50** |
| login | **String** | Initally blank string which the customer / staff member must type in a login detail that must equal staff\_1 or staff\_2 in order to obtain admin status. | login = **“”**; |
| mealPrice | **Global** Double  *Arraylist* | Prices of the meal deals. In the if statement for a meal deal, the price of a meal will only be used if hotFoodMeal != \*Nothing available\* | mealPrice.add(**5.00)** |
| newPrice | Double | In the stockUpdateHot method. Used to substitute a new price value in the hotFoodPrice Arraylist. | newPrice (**2.50**)  *hotFoodPrice*.set**(***option*-1, newPrice (**2.50)** |
| note | **Global** String | An ever-changing variable that accepts string. Used to ask the customer if they want any more requirements for their order and be able to type in a sauce of their choosing. | *note* = key.nextLine**()**;  (“**Mayo and red sauce”**)  *notes*.add**(**Mayo and red sauce**)** |
| notes | **Global** String  *Arraylist* | Takes from the “note” variable and adds it into an array list so It can be displayed in the receipt | notes.get(0)  Console : Notes **Mayo and red sauce** |
| option | **Global** Integer | Used to select an option on the mainmenu and is then reset in hotFood and is used for selecting the type item and which curry meal deal as there are 2 “options”. Better to reset and reuse rather than initalise a different variable. | option (**3**) = lunchToGoMerged.home(**3**;  switch (option)  **case 3:**  hotFoodSelection();  Runs hot food ordering |
| priceBasket | **Global**  Double  Arraylist | Stores the prices from both sandwich and hotFoodPrice / mealPrice to print onto the receipt. | priceBasket.add(hotFoodPrice.get(0 (**4.50)** |
| qty | **Global** Integer  *Arraylist* | Stores the quantity from the variable “quantity” for printing onto the receipt. Matches with index of the item already chosen. | qty.add(**4**)  *Reciept printout*  Quantity  **4** |
| quantity | **Global** Integer | Quantity of the item ordered. In the *quantity* method, customer is asked to enter a quantity which then gets added to an arraylist. | *quantity =* ***2*** |
| sauce | **Global** String  Arraylist | Used in both sandwich and hot food. Sauces are called in the sandwich section and the user is asked to select and option between 1-5. Hot food displays the sauces in a table, which the customer can key in a string in the notes method. | “**Mayo**” |
| sides | **Global** String  Arraylist | Sides contains only the sides outlined in appendix A. The sides are added onto the entire hot food array and are used in its own side menu when getting a meal deal. | “**Chips**” |
| sideOption | Integer | Side option needed to be used in the meal deal as we need to keep a hold of the option chosen from the meal deal. sideOption functions the same as option, allowing the customer to choose a numbered item from the sidesMenu method. | sideOption = **1** (Beans) |
| sidesPrice | Double | Sides price contains only the prices outlined in appendix B. The prices also get added onto the entire hot food price. | **0.80** |
| staff | **Global** String | Staff equivalates to the login variable if the details entered also match staff\_1 or staff\_2. Staff is then used elsewhere when an admin element is required such as… | “**treety**” |
| staff\_1 | String | 1st login credential. Set as a check for comparing the value of login to staff\_1. Used to stop unwanted entry into the admin part of the system, where items can be removed and updated. | **“jmcelwee”** |
| staff\_2 | String | 2nd login credential. Same as staff\_2, but with a different credential. In real life, a system would have more than one login detail. | “**treety**” |
| subTotal | **Global** Double Arraylist | Used in the qtyTotal method to assign subtotal the value of quantity \* itemPrice (the price of the item called upon in the parameter) qtyTotal = 2 \* 4.50 | qtyTotal = 2 \* 4.50  subtotal = **9.00** |
| sum | Double | In the totalPrice method. Used as a parameter, to calculate the sum of the list of subtotal array elements. | **50.00** |
| total | **Global**  Double | Substitutes the value from the variable “sum” in totalPrice method. Each subtotal element is added onto the totalPrice and gives a total. | **12.50** |
| yesNo | **Global** Char | Used in many cases in both sandwich and hot food. In hot food, its used to ask if the customer wants a meal deal and used to ask if customer wants any requirements or sauce. | **‘Y’** |

Created by Treety Farahmand M. – Black

|  |  |  |  |
| --- | --- | --- | --- |
| **FIELD NAME** | **DATA TYPE** | **DESCRIPTION** | **EXAMPLE** |
| **Treety’s Variables** |  |  |  |
| nSand | int | Counts the number of sandwiches ordered | nSand++ |
| nCont | int | Counts the number of contents in a sandwich | nCont++ |
| nExtras | int | Counts the number of extra items ordered | nExtras++ |
| breadChoice | int | It is used to choose a bread type | BreadChoice = 1 |
| spreadChoice | int | It is used to chose a spread type | spreadChoice = 2 |
| meatChoice | int | It is used to chose a meat type | meatChoice = *7* |
| SaladChoice | int | It is used to chose a salad type | saladChoice =  *8* |
| sauceChoice | int | It is used to chose a sauce type | sauceChoice = *4* |
| checkOut | char | Y/N option to go to different  part of programme | Y/N |
| extrasM | char | Y/N option to choose the extra meat | extrasM = Y/N |
| extrasS | char | Y/N option to choose the extra salad | extrasS = Y/N |
| anySalad | char | Y/N option to choose | anySalad = Y/N |
| sandwichPriceBasket | double | To add up the prices | sandwichPriceBasket += 0.35; |
| sandwichContent | ArrayList  String | To add to the array list of sandwich content and print later | sandwichContent.add(sauce.get(sauceChoice - 1) |
| sandwichExtraContent | ArrayList  String | To add to the array list of sandwich Extra content and print later | sandwichExtraContent.get(k), sandwichExtraPriceBasket.get(k) |
| bread | ArrayList  String | To print and then recall the bread type which has been added | sandwichContent.add(bread.get(breadChoice - 1)); |
| spread | ArrayList  String | To print and then recall the spread type which has been added what has been added | spread.get(spreadChoice - 1) |
| meat | ArrayList  String | To print and then recall the meat type which has been added | meat.get(0), meat.get(5) |
| salad | ArrayList  String | To print and then recall the salad type which has been added | salad.get(saladChoice - 1)); |
| sauce | ArrayList  String | To print and then recall the sauce type which has been added | sandwichContent.add(sauce.get(sauceChoice - 1)); |
| sandwichExtraPriceBasket | ArrayList  Double | To add and then recall the sandwich extras which has been chosen | sandwichContent.add(sauce.get(sauceChoice - 1)); |

**3. Script**

**4. Story Boarding**

***Screen Designs***

#### introScreen (designed by both Jordan and Treety)

+-----------------------------------------------------------+

| Welcome to |

| Lunch and go! |

+-----------------------------------------------------------+

-------------------------------------------------------------

| (1) Sandwiches |

-------------------------------------------------------------

| (2) Salad |

-------------------------------------------------------------

| (3) Hot Food |

-------------------------------------------------------------

| (4) Checkout |

-------------------------------------------------------------

| (5) Staff login |

-------------------------------------------------------------Please choose an option above

#### Option 3 (Hot Food Menu)

HOT FOOD |PRICE |DEALS

------------------------------ ------------------- --------------------------------

1)Burger |£4.50 |+1 side

2)Lasagne |£4.00 |+1 side

3)Stew |£2.50 |+ Crusty roll

4)Veg Soup |£2.50 |+ Crusty roll

5)Chicken Soup |£2.50 |+ Crusty roll

6)Sausage |£0.80 |\*Nothing available\*

7)Sausage Rolls |£0.80 |\*Nothing available\*

8)Vol au vent |£1.00 |\*Nothing available\*

9)Chicken Curry |£3.00 |+1 side £3.50 or +2 sides£4.00

10)Chips |£1.20 |\*Nothing available\*

11)Beans |£0.60 |\*Nothing available\*

12)Crusty Roll |£0.40 |\*Nothing available\*

13)Rice |£1.00 |\*Nothing available\*

14)Peas |£0.60 |\*Nothing available\*

15)Wedges |£1.20 |\*Nothing available\*

16)Curly Fries |£1.20 |\*Nothing available\*

17)Peppered Sauce Dip|£0.60 |\*Nothing available\*

18)Curry Dip |£0.60 |\*Nothing available\*

19)Gravy Dip |£0.60 |\*Nothing available\*

------------------------------ ------------------- --------------------------------

Please choose an option above (1 - 19)

#### Option 1-2 chosen

You've ordered:

-----------------------

| Burger (£4.50) |

-----------------------

Make it a meal? +1 side

(Y) Yes / (N) No

*(enter Y or N) here*

*If yes is chosen, move to Sides Menu.*

*Otherwise if no, move to Add Notes / sauces section.*

#### Sides Menu

Burger meal added to basket

SIDES

-------------------

1)Chips

2)Beans

3)Crusty Roll

4)Rice

5)Peas

6)Wedges

7)Curly Fries

8)Peppered Sauce Dip

9)Curry Dip

10)Gravy Dip

Please choose an option above (1-10)

1

Chips added as a side.

Enter quantity: 2

Are there any notes or requirements?

(Y) Yes / (N) No

#### Notes / Sauces , home option

These are the available sauce choices if you wish to chance or add a sauce as a side

SAUCES

-------------------

1)Mayo

2)Taco

3)BBQ

4)Ketchup

5)HP Brown Sauce Note *: Mayo on top red on bottom*

*(goHome method)* Return to same food selection (Y), or home (N)?

(Y) Yes / (N) No

*if yes, return to the Hot Food Menu, otherwise, go back to the main menu.*

#### Option 3-5

You've ordered:

-----------------------

| Stew (£2.50) |

-----------------------

Make it a meal? + Crusty Roll

(Y) Yes / (N) No

*(enter Y or N)*

*If yes is chosen, Stew Meal is added into basketItem Arraylist.*

*Note “+Crusty roll” also added to notes Arraylist.*

*Move to goHome method.*

*Otherwise if no, move to Add Notes / sauces section.*

#### Option 9 (2 Meal deal options for one item) (+1 side)

Chicken Curry meal added to basket

You can order +1 side £3.50 or +2 sides £4.00

Please choose an option above

1

1 sides meal(£3.50)

SIDES

-------------------

1)Chips

2)Beans

3)Crusty Roll

4)Rice

5)Peas

6)Wedges

7)Curly Fries

8)Peppered Sauce Dip

9)Curry Dip

10)Gravy Dip

Please choose an option above

1

*Runs addNotes method asking for further requirements*

#### Option 9 (2 Meal deal options for one item) (+2 sides)

Chicken Curry meal added to basket

You can order +1 side £3.50 or +2 sides £4.00

Please choose an option above

2

1 sides meal(£4.00)

SIDES

-------------------

1)Chips

2)Beans

3)Crusty Roll

4)Rice

5)Peas

6)Wedges

7)Curly Fries

8)Peppered Sauce Dip

9)Curry Dip

10)Gravy Dip

Please choose an option above

1

*Runs addNotes method asking for further requirements*

*Runs this menu twice to add the second side into the notes section.*

#### Options 6-8, 10-19

You've ordered:

--------------------------

| Sausage (£0.80) |

--------------------------

Enter quantity: *5*

Any sauce for your item?

(Y) Yes / (N) No

n *(Skips adding a note)*

Sausage added to basket

Return to same food selection (Y), or home (N)?

(Y) Yes / (N) No

n *(goes to the main menu selection)*

#### Option 5 Main Menu (admin login) admin staus granted.

Please enter your sign-in ID

(Enter details here) jmcelwee

Welcome member. Remember you get an automatic 10% discount on your order.

+-----------------------------------------------------------+

| Welcome to |

| Lunch and go! |

+-----------------------------------------------------------+

-------------------------------------------------------------

| (1) Sandwiches |

-------------------------------------------------------------

| (2) Salad |

-------------------------------------------------------------

| (3) Hot Food |

-------------------------------------------------------------

| (4) Checkout |

-------------------------------------------------------------

| (5) Update Availability |

-------------------------------------------------------------

Please choose an option above

#### Option 5 Main menu with admin status (Jordan and Treety)

Choose either sandwich or hot food lists to edit

1. Sandwich
2. Hot Food

1

*Either will printout the availability menu*

Availability Main Menu

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. Delete an Item

2. Update Item Price

3. Print Item List

4. Exit

Select option [1-4] :

#### Availability Options for either sandwich or hot food (Jordan and Treety)

Select option [1-4] :

*Checks whether hot food or sandwich was selected*

1. *(Prints hot food menu design page ?)* Please choose an option (Enters 1)

--Removed Burger--

Returns to Availability Main Menu

1. *(Prints hot food menu page )*

*Please choose an option (Enter 2)*

*Enter the new price (3.50)*

*Returns to Availability*

1. *(Prints sandwich or hot food menu page )*
2. *Exits to introScreen selection*

***Receipt Printout***

Item |Notes |Price |Qty |Subtotal

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Burger Meal |+ Chips side / Red sauce dip |£5.00 |5 |£25.00

Lasagne Meal |+ Beans side / Mayo dip |£4.50 |1 |£4.50

Sausage |+ Red sauce dip |£0.80 |2 |£1.60

Chips | |£1.20 |4 |£4.80

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

10% staff discount|£3.59

Total|£32.31

***Option for the bread choice***

***Option for the bread choice***

----- Roll | 8. Gluten Free Roll | --------------------------------------------

| Bread choices |

--------------------------------------------

|1. White | 5. Brown Roll |

|2. Brown | 6. White Wrap |

|3. Granary | 7. Brown Wrap |

|4. White Roll | 8. Gluten Free Roll |

--------------------------------------------

Please enter the bread type: 1

The bread type is White

***Option for the spread choice***

----------------------------------------------

| Spread choices |

----------------------------------------------

|1. Butter | 2. Mayonnaise |

----------------------------------------------

Please enter the spread type: 1

The spread chosen is Butter

***Option for the extra meat choice***

----------------------------------------------

| Meat choices |

----------------------------------------------

|1. Grilled Chicken | 6. Steak |

|2. Breaded Chicken | 7. Tuna |

|3. Ham | 8. Chicken supreme |

|4. Peperoni | 9. Taco Chicken |

|5. Turkey | 10. Chicken Tikka |

----------------------------------------------

Please enter the meat choice: 2

The extra meat chosen is Breaded Chicken

Would you like any extras: n

Would you like any salad:y

***Option for the salad choice***

--------------------------------------------

| Salad choices |

--------------------------------------------

|1. Lettuce | 7. Cheese |

|2. Tomato | 8. Pickles |

|3. Onions | 9. Rice |

|4. Peppers | 10. Egg |

|5. Cucumber | 11. Spinach |

|6. Sweetcorn | 12. Coleslaw |

--------------------------------------------

Please enter the salad choice: 5

The salad chosen is Cucumber

Would you like any more salad:y

***Option for the sauce choice***

--------------------------------------------

| Salad choices |

--------------------------------------------

|1. Lettuce | 7. Cheese |

|2. Tomato | 8. Pickles |

|3. Onions | 9. Rice |

|4. Peppers | 10. Egg |

|5. Cucumber | 11. Spinach |

|6. Sweetcorn | 12. Coleslaw |

--------------------------------------------

Please enter the salad choice: 8

The second salad chosen is Pickles

Would you like any extra salad:y

***Option for the extra salad choice***

--------------------------------------------

| Salad choices |

--------------------------------------------

|1. Lettuce | 7. Cheese |

|2. Tomato | 8. Pickles |

|3. Onions | 9. Rice |

|4. Peppers | 10. Egg |

|5. Cucumber | 11. Spinach |

|6. Sweetcorn | 12. Coleslaw |

--------------------------------------------

Please enter the salad choice: 4

The salad chosen is Peppers

Would you like any extras: n

***Option for the sauce choice***

-----------------------

| Sauce choices |

-----------------------

|1. Mayo |

|2. Taco |

|3. BBQ |

|4. Ketchup |

|5. HP Brown Sauce |

-----------------------

Please the choice of sauce: 2

The sauce chosen is Taco

Would you like to go to the check out: y

***Receipt Printout***

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* Full lunch order \*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* Preview of Sandwich content and extras \*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\* Sandwich Content |Extras |Price |Subtotal \*

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

|White | | | |

|Butter | | | |

|Grilled Chicken | | | |

|Cucumber | | | |

|Pickles | | | |

|Taco | | | |

| | Breaded Chicken|0.60 | |

| | Peppers |0.35 | |

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

The total sandwich bill: £3.95

Return to sandwich selection (Y), or home (N)?n

***back to home***

Item |Notes |Price |Qty |Subtotal

+-----------------------------------+

| Welcome to |

| Lunch and go! |

+-----------------------------------+

-----------------------------------

| (1) Sandwiches |

-----------------------------------

| (2) Salad |

-----------------------------------

| (3) Hot Food |

-----------------------------------

| (4) Checkout |

-----------------------------------

| (5) Staff login |

-----------------------------------

Please choose an option above 1

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Burger Meal |+ Chips side / Red sauce dip |£5.00 |5 |£25.00

Lasagne Meal |+ Beans side / Mayo dip |£4.50 |1 |£4.50

Sausage |+ Red sauce dip |£0.80 |2 |£1.60

Chips | |£1.20 |4 |£4.80

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

10% staff discount|£3.59

Total|£32.31 Item |Notes |Price |Qty |Subtotal

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Burger Meal |+ Chips side / Red sauce dip |£5.00 |5 |£25.00

Lasagne Meal |+ Beans side / Mayo dip |£4.50 |1 |£4.50

Sausage |+ Red sauce dip |£0.80 |2 |£1.60

Chips | |£1.20 |4 |£4.80

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. **Sample Testing**

**INPUT TESTING**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Area Tested** | **Test Number** | | **Value/s Tested** | **Expected Outcome** | **Actual Outcome** |
| Bread  input  choices  Number  range  1-8 | 1 | 1.1 | 0  BVA | System should reject value and display  “Error: Range is 1 - 8. Please re-enter.  Please enter the bread type: “ | As expected |
| 1.2 | 8  BVA | System should display, for example  “The bread type is Gluten Free Roll” and it should go to the next step. | As expected |
| 1.3 | 9  BVA | System should reject value and display  “Error: Range is 1 - 8. Please re-enter.  Please enter the bread type: “ | As expected |
| 1.4 | letter | System should reject value and display  “Error: Illegal character(s) in input Please re-enter.  Please enter the bread type:” | As expected |
| 1.5 | blank | System should reject value and display  “Error: Illegal character(s) in input Please re-enter.  Please enter the bread type:” | As expected |
| 1.6 | Spaces | System should reject value and display  “Error: Illegal character(s) in input Please re-enter.  Please enter the bread type:” | Not as expected  Program crashes |
| Spread input  choices  Number range  1-2 | 2 | 2.1 | 0  BVA | System should reject value and display  “Error: Range is 1 - 3. Please re-enter.  Please enter the bread type: “ | As expected |
| 2.2 | 2  BVA | System should display, for example  “The spread type is mayonnaise” and it should go to the next step. | As expected |
| 2.3 | 3  BVA | System should reject value and display  “Error: Range is 1 - 3. Please re-enter.  Please enter the bread type: “ | As expected |
| 2.4 | letter | System should reject value and display  “Error: Illegal character(s) in input Please re-enter.  Please enter the bread type:” | As expected |
| 2.5 | Spaces | System should reject value and display  “Error: Illegal character(s) in input Please re-enter.  Please enter the bread type:” | As expected |
| Meat input  choices  Number range  1-10 | 3 | 3.1 | 0  BVA | System should reject value and display  “Error: Range is 1 - 3. Please re-enter.  Please enter the bread type: “ | As expected |
| 3.2 | 10  BVA | System should display, for example  “The meat type is Chicken Tikka” and it should go to the next step. | As expected |
| 3.3 | 11  BVA | System should reject value and display  “Error: Range is 1 - 10. Please re-enter.  Please enter the bread type: “ | As expected |
| 3.4 | space | System should reject value and display  “Error: Illegal character(s) in input  Please re-enter. | As expected |
| 3.5 | letter | System should reject value and display  “Error: Illegal character(s) in input Please re-enter. | As expected |
| 3.6 | blank | System should reject value and display  “Error: Illegal character(s) in input Please re-enter.  “Error: Illegal character(s) in input Please re-enter. | Not as expected |
| Extra input  choices  Y/N | 4 | 4.1 | numbers | System should reject value and display  “Error: Input must be either Y or N. Please re-enter.  Would you like any extras: “ | As expected |
| 4.2 | Letters other than Y​/N | System should reject value and display  “Error: Input must be either Y or N. Please re-enter.  Would you like any extras: “ | As expected |
| 4.3 | Y | System should go to the next step.  Please enter the meat choice: | As expected |
| 4.4 | N | System should go to the next step.  Please enter the meat choice: | As expected |
| 4.5 | spaces | System should reject value and display  “Error: Input must be either Y or N. Please re-enter.  Would you like any extras: “ | As expected |
| 4.6 | blank | System should reject value and display  “Error: Input must be either Y or N. Please re-enter.  Would you like any extras: “ | Not as expected |
| The option of  any  Salad  at all  input  choices | 5 | 5.1 | numbers | System should reject value and display  “Error: Input must be either Y or N. Please re-enter.  Would you like any extras: “ | As expected |
| 5.2 | Letters other than Y​/N | System should reject value and display  “Error: Input must be either Y or N. Please re-enter.  Would you like any extras: “ | As expected |
| 5.3  5.4 | Y/N entry | System should go to the next step.  Please enter the meat choice: | As expected |
| 5.5 | Spaces | System should reject value and display  “Error: Input must be either Y or N. Please re-enter.  Would you like any extras: “ | As expected |
| 5.6 | blank | System should reject value and display  “Error: Input must be either Y or N. Please re-enter.  Would you like any extras: “ | Not as expected |
| salad  input  choices | 6 | 6.1 | 0  BVA | System should reject value and display  “Error: Range is 1 - 10. Please re-enter.  Please enter the bread type: “ | As expected |
| 6.2 | 12  BVA | System should display, for example  Please enter the salad choice: 12  The salad chosen is coleslaw | As expected |
| 6.3 | 13  BVA | System should reject value and display  “Error: Range is 1 - 10. Please re-enter.  Please enter the bread type: “ | As expected |
| 6.4 | Letter | System should reject value and display  “Error: Illegal character(s) in input  Please re-enter. | As expected |
| 6.5 | spaces | System should reject value and display  “Error: Illegal character(s) in input  Please re-enter. | As expected |
| 6.6 | blank | System should reject value and display  “Error: Illegal character(s) in input  Please re-enter. | As expected |
| Sauce input  choices | 7 | 7.1 | 0  BVA | System should reject value and display  “Error: Range is 1 - 5. Please re-enter.  Please enter the bread type: “ | As expected |
| 7.2 | 5  BVA | System should display, for example | As expected |
| 7.3 | 6  BVA | System should reject value and display  “Error: Range is 1 - 10. Please re-enter.  Please enter the bread type: “ | As expected |
| 7.4 | Letters | System should reject value and display  “Error: Illegal character(s) in input Please re-enter. | As expected |
| 7.5 | blank | System should reject value and display  “Error: Illegal character(s) in input Please re-enter. | As expected |
| 7.6 | space | System should reject value and display  “Error: Illegal character(s) in input Please re-enter. | Not as expected |
| Check out Input | 8 | 8.1 | numbers | System should reject value and display  “Error: Input must be either Y or N. Please re-enter.  Would you like any extras: “ | As expected |
| 8.2 | Letters other than Y​/N | System should reject value and display  “Error: Input must be either Y or N. Please re-enter.  Would you like any extras: “ |  |
| 8.3 | Y/N entry | System should go to the next step. |  |
| 8.4 | Spaces | System should reject value and display  “Error: Illegal character(s) in input Please re-enter. |  |
| 8.5 | blank | System should reject value and display  “Error: Illegal character(s) in input Please re-enter. |  |
| **Functional calculation tests** | | | | | |
| Checking the numbers of items being selected and the relevant price is added. | 10 | 10.1 |  |  | As expected |
| 10.2 |  |  |  |
| 10.3 |  |  |  |
| 10.4 |  |  |  |
| 10.5 |  |  |  |
| 10.6 |  |  |  |
| Checking for different combination of sandwich choice and the outcome of correct price printed | 11 |  |  |  | As expected |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Checking for the correct print lay out | 12 |  |  |  | As expected |
|  |
|  |
|  |
|  |
|  |
| Checking for the correct total calculation | 13 |  |  |  | As expected |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  | 14 |  | Leave blank |  |  |
|  |
|  |
|  |
|  |
|  |
|  | 15 |  | 6 spaces |  |  |
| Answer | 1 |  | Y |  | : |
|  |  |  |  |  |  |
|  |  | |  |  |  |
|  |  | |  |  |  |
|  |  | |  |  |  |
|  |  | |  |  |  |
|  |  | |  |  |  |
|  |  | |  |  |  |
|  |  | |  |  |  |
|  |  | |  |  |  |
|  |  | |  |  |  |
|  |  | |  |  |  |

**PROCESS TESTING**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Area Tested** | **Test Number** | **Value/s Tested** | **Display Expected Outcome** | **Actual Outcome** |
| Main Options | 1 | Option Number one | Display the Sandwich menu | As expected.  Correct display. |
| Printing the sandwich content | 2 | Correct calculation and content display | Display the correct  Sandwich, contents, Extras and Price and Total. | As expected  Correct calculations |
| Return the Sandwich Menu | 3 | Returning to Sandwich selection | When Y is chosen the Sandwich menu should be displayed again. | s expected |
| Returning to  Home  main option | 4 | Returning to Home to the main option | When N is chosen the Sandwich menu should be displayed again. | As expected |
| The Hot Food  Option | 5 | Checking the Option number 3 | Display the Hot Food menu | As expected |
| Printing the  Hot food  content | 6 | Correct calculation and content display | Display the correct  Hot Food, contents, Extras and Price and Total. | As expected |