

https://github.com/jbcsep19/BakeryApp - Assignment link

<https://github.com/firedots1/Bakery> - Zhi’s link

# IPO Diagram

|  |  |  |
| --- | --- | --- |
| Input | Process | Outputs |
| **Two**, User prompt for diet restriction  **Six**, User prompt for new search | **Three,** Get diet restriction  **Four**, Select BakedGoods that do meet user entered diet restriction | **One,** Display welcome message  **Five**, List of Baked Goods that match selection criteria |

# Pseudocode

Initialize searchString = “”

Display welcome message – happens in BakeryApp class

Declare storeItems String – happens in BakeryApp class

Create an instance of a BakeryStore object – happens in BakeryApp

Call the method populateStoreItems() to build the storeItems Arraylist of baked goods– happens in BakeryStore class which uses Bakedgoods class to create objects

Initialize done = false – happens in BakeryApp

REPEAT

Prompt user to enter dietary restriction to be used as selection criteria - – happens in BakeryApp class

Set searchString to the value entered by the user – happens in BakeryApp class

Get list of items meeting dietary restriction – happens in BakeryApp class

Select items that meet user inputted selection criteria into a list BakeryStore class

Display list to the screen– happens in BakeryApp class

Prompt user to see if new selection is desired or Quit– happens in BakeryApp class

IF user entered ‘Q’ to quit– happens in BakeryApp class

THEN– happens in BakeryApp class

done = true– happens in BakeryApp class

ENDIF– happens in BakeryApp class

UNTIL (done) – happens in BakeryApp class

# Classes

|  |
| --- |
| BakeryApp |
|  |
| main() |

|  |
| --- |
| BakeryStore |
| -storeItems:ArrayList<BakedGoods> |
|  |
| +BakeryStore() |
| +populateStoreItems() |
| +searchStore(String):String |

|  |
| --- |
| BakedGoods |
| -name:String |
| -price:double |
| -expDate:String |
| -quatity:int  -dietRestrictionsMet:String  -type:String |
| +BakedGoods(String, double, String, int, String, String)  +setName(String) |
| +getName():String |
| +setPrice(double) |
| +getPrice():double |
| +setExpDate(String) |
| +getExpDate():String |
| +setQuantity(int) |
| +getQuantity():int  +setDietRestrictionsMet(String) |
| +getDietRestrictionsMet():String  +setType(String)  +getType()  +toString():String |

# 15 Baked Goods to be created

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| name | price | expDate | quantity | dietRestrictionsMet | type |
| White Bread | 10.95 | 5/30/2020 | 21 | gluten free, dairy free, egg free, soy free, nut free, vegan | Breads & Muffins |
| Cinnamon Raisin Bread | 10.95 | 6/1/2020 | 15 | gluten free, dairy free, egg free, nut free, sesame free | Breads & Muffins |
| Large Hamburger Buns | 5.00 | 8/15/2020 | 30 | gluten free, dairy free, nut free, sesame free | Breads & Muffins |
| 3-Pack Muffins | 8.25 | 8/30/2020 | 12 | nut free, sesame free | Breads & Muffins |
| Remedy Cookie Brownie Bar | 4.95 | 7/31/2020 | 10 | gluten free, soy free, nut free, sesame free | Brownies & Bars |
| Powdered Brownie | 4.50 | 7/15/2020 | 17 | gluten free, sesame free | Brownies & Bars |
| Vegan Cookie Dough | 2.50 | 7/4/2020 | 9 | gluten free, dairy free, egg free, soy free, nut free, sesame free, vegan | Cookies |
| Chocolate Chip Cookies | 2.85 | 9/30/2020 | 40 | gluten free, soy free, nut free, sesame free, sugar free | Cookies |
| 8 Graduation Cookie Set | 24.95 | 9/1/2020 | 6 | soy free, nut free, sesame free | Cookies |
| 6 Spring Cupcake Cups | 24.00 | 9/15/2020 | 5 | nut free | Cupcakes |
| Cupcake Bouquet | 38.95 | 5/25/2020 | 3 | gluten free | Cupcakes |
| Dozen Mini Cupcakes | 21.00 | 5/30/2020 | 4 | sugar free | Cupcakes |
| Organic Gummy Bears | 4.95 | 10/31/2020 | 22 | gluten free, dairy free, egg free, soy free, nut free, corn | Small Desserts |
| 1 Dozen Pumpkin Donut Holes | 12.00 | 6/15/2020 | 2 | gluten free, soy free, nut free, sesame free | Small Desserts |
| Star Wars Cookie Truffle Set | 24.95 | 7/5/2020 | 4 | gluten free, dairy free, egg free, nut free, coconut, sesame free | Small Deserts |