**Michael Salzarulo D424 Test Plan**

Objective – To verify functionality of adding menu items and updating the inventory value.

*Test Case*

Description – Test association of ingredient to menu item.

Steps:

1. Create new menu item.
2. Associate ingredient to menu item.
3. Verify the creation and association is successful.

A yellow circle with text

Description automatically generated

A screenshot of a menu

Description automatically generated

*Test Scripts*

@Test  
void testNewMenuItem() {  
 MenuItem menuItem = new MenuItem("New Pizza", 15.00, 10);  
  
 assertEquals("New Pizza", menuItem.getName(), "Name should match.");  
 assertEquals(15.00, menuItem.getPrice(), "Price should match.");  
 assertEquals(10, menuItem.getInv(), "Inventory should match.");  
}

@Test  
void testNewMenuItemWithIngredient() {  
 MenuItem menuItem = new MenuItem("New Pizza", 15.00, 10);  
  
 assertEquals("New Pizza", menuItem.getName(), "Name should match.");  
 assertEquals(15.00, menuItem.getPrice(), "Price should match.");  
 assertEquals(10, menuItem.getInv(), "Inventory should match.");  
  
 Ingredient ingredient1 = new ImportedIngredient();  
 Ingredient ingredient2 = new LocalIngredient();  
 Set<Ingredient> myIngredients= new HashSet<>();  
 myIngredients.add(ingredient1);  
 myIngredients.add(ingredient2);  
 menuItem.setIngredients(myIngredients);  
 assertEquals(myIngredients,menuItem.getIngredients());  
}

*Results*

A screenshot of a computer

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A screenshot of a computer program

Description automatically generated

*Summary*

In summary, the results show that both test scripts passed their tests. This behavior was expected and is a great reinforcer for keeping the methods for classes the same. In testing, it was verified that the constructor for MenuItem required the minimal amounts of data to work. This was intended and is expected which shows a positive result.

Moving forward, this testing has inspired the team to add methods/constructors for more flexibility. For example, users may want to create Menu Items or Ingredients with less information than is currently required. This was thought of in the testing phase and is a good indicator that wider flexibility will be a positive modification in the future.