TEST CASE SUMMARY (RESTAURANT-MANAGEMENT System)(Group 4)

• Test Case 1:

- **Description:** Verify successful creation of a new order with valid data.
- **Expected Outcome:** Order object is created successfully in the database.
- **Result:** Passed.

• Test Case 2:

- **Description:** Test order creation with missing required fields.
- Expected Outcome: Order creation fails with appropriate validation errors.
- **Result:** Passed.

• Test Case 3:

- **Description:** Verify successful retrieval of a specific order by ID.
- **Expected Outcome:** Order object with matching ID is retrieved correctly.
- **Result:** Passed.

• Test Case 4:

- **Description:** Test retrieval of an order with an invalid ID.
- **Expected Outcome:** Order retrieval fails with an appropriate error (e.g., OrderNotFound).
- Result: Passed.

• Test Case 5:

- **Description:** Verify successful addition of a dish to an existing order.
- **Expected Outcome:** Dish is successfully added to the order.
- Result: Passed.

• Test Case 6:

- **Description:** Test updating an order status (e.g., from "Placed" to "In Preparation").
- **Expected Outcome:** Order status is updated successfully in the database.
- **Result:** Passed.

• Test Case 7:

- **Description:** Test deletion of an order.
- **Expected Outcome:** Order is successfully deleted from the database.
- **Result:** Passed.

• Test Case 8:

- **Description:** Verify successful creation of a new menu item.
- **Expected Outcome:** Menu item object is created successfully in the database.

• **Result:** Passed.

• Test Case 9:

- **Description:** Test updating the price of a menu item.
- **Expected Outcome:** Menu item price is updated successfully in the database.

• Result: Passed.

• Test Case 10:

• **Description:** Test deletion of a menu item.

• Expected Outcome: Menu item is successfully deleted from the database.

• Result: Passed.

How the tests are carried out:

OrderModelTest:

Tests order creation with valid and invalid data.

Tests retrieving and deleting orders.

DishModelTest:

Tests dish creation, price updates, and deletion.

MenuModelTest:

Tests menu creation and deletion.

Assertions:

self.assertEqual(): Checks if two values are equal.

self.assertRaises(): Checks if an exception (like ValidationError or DoesNotExist) is raised.

setUp() Method:

In OrderModelTest, the setUp() method creates a sample Menu and Dish before each test, ensuring consistent test data.

Code Illustration:

from django.test import TestCase

from .models import Order, Dish, Menu

```
class OrderModelTest(TestCase):
  def setUp(self):
    self.menu = Menu.objects.create(name="Lunch Menu")
    self.dish
                          Dish.objects.create(name="Pizza",
                                                                  price=10.00,
menu=self.menu)
  def test create order(self):
    order = Order.objects.create(customer name="John Doe")
    order.dishes.add(self.dish)
    order.save()
    self.assertEqual(order.customer name, "John Doe")
    self.assertEqual(order.dishes.count(), 1)
  def test create order with missing customer(self):
    with self.assertRaises(ValidationError):
       Order.objects.create()
  def test get order by id(self):
    order = Order.objects.create(customer_name="Jane Smith")
    retrieved order = Order.objects.get(pk=order.id)
    self.assertEqual(retrieved order, order)
  def test get order with invalid id(self):
    with self.assertRaises(Order.DoesNotExist):
       Order.objects.get(pk=9999)
class DishModelTest(TestCase):
```

```
def test create dish(self):
    menu = Menu.objects.create(name="Dinner Menu")
    dish = Dish.objects.create(name="Pasta", price=8.00, menu=menu)
    self.assertEqual(dish.name, "Pasta")
    self.assertEqual(dish.price, 8.00)
    self.assertEqual(dish.menu, menu)
  def test update dish price(self):
    dish = Dish.objects.create(name="Salad", price=5.00)
    dish.price = 7.00
    dish.save()
    self.assertEqual(dish.price, 7.00)
  def test delete dish(self):
    dish = Dish.objects.create(name="Burger")
    dish id = dish.id
    dish.delete()
    with self.assertRaises(Dish.DoesNotExist):
       Dish.objects.get(pk=dish id)
class MenuModelTest(TestCase):
  def test create menu(self):
    menu = Menu.objects.create(name="Breakfast Menu")
    self.assertEqual(menu.name, "Breakfast Menu")
  def test delete menu(self):
    menu = Menu.objects.create(name="Dessert Menu")
```

```
menu_id = menu.id
menu.delete()
with self.assertRaises(Menu.DoesNotExist):
    Menu.objects.get(pk=menu_id)
```