Equivalence Partition for FoodForMood

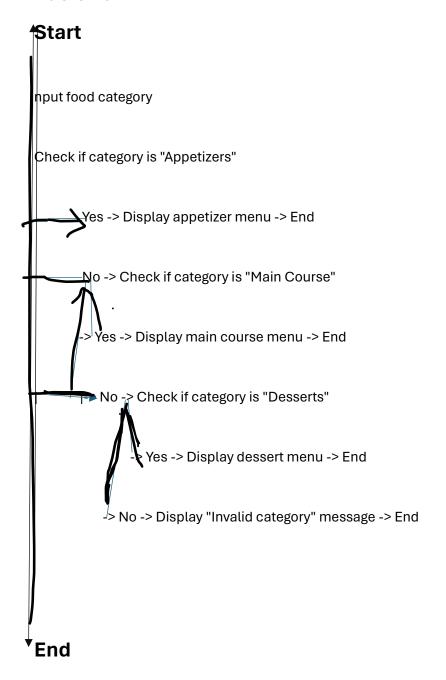
The scenario involves the equivalence partitioning of the food menu and food category for our website, FoodForMood. The website allows users to enter the name of a food item, its category, and a list of prices for different sizes or portions. According to the specifications, the food item name should be 2 to 20 characters long and can only contain alphanumeric characters. Each price can be a value between 1 and 100, and a maximum of five prices can be entered for each item. The item name should be entered first, followed by a comma, then the category, and another comma. Finally, the list of prices should be entered. Spaces should be ignored anywhere in the input.

Derived Equivalence Classes:

- 1. Food item name is alphanumeric (valid)
- 2. Food item name is not alphanumeric (invalid)
- 3. Food item name is less than 2 characters in length (invalid)
- 4. Food item name is 2 to 20 characters in length (valid)
- 5. Food item name is greater than 20 characters in length (invalid)
- 6. Category is alphanumeric (valid)
- 7. Category is not alphanumeric (invalid)
- 8. Category is less than 2 characters in length (invalid)
- 9. Category is 2 to 20 characters in length (valid)
- 10. Category is greater than 20 characters in length (invalid)
- 11. Price value is less than 1 (invalid)
- 12. Price value is in the range 1 to 100 (valid)
- 13. Price value is greater than 100 (invalid)
- 14. Price value is a whole number (valid)
- 15. Price value is a decimal (invalid)
- 16. Price value is numeric (valid)
- 17. Price value includes non-numeric characters (invalid)
- 18. Prices entered in ascending order (valid)
- 19. Prices entered in non-ascending order (invalid)
- 20. No prices entered (invalid)
- 21. One to five prices entered (valid)
- 22. More than five prices entered (invalid)
- 23. Food item name is first (valid)
- 24. Food item name is not first (invalid)
- 25. Category is after the food item name and before prices (valid)
- 26. Category is not after the food item name and before prices (invalid)
- 27. A single comma separates each entry in the list (valid)
- 28. A comma does not separate two or more entries in the list (invalid)
- 29. The entry contains no blanks (valid)
- 30. The entry contains blanks (valid)

	Test Data	Expected Outcomes	Classes Covered
1	Pizza, Noodles,10,15,20	Т	1,4,6,9,11,12,14,18,21,23,25,27 ,29
2	Fast Food,5,7,8,15	Т	1,4,6,9,11,12,14,18,21,23,25,27 ,29
3	Dessert,1.5,3,4	F	10,15
4	Salad,0	F	11
5	Chinse 50,60,70,80,90,100	F	13,21
6	Noodles10,12,14,15,10, 20	F	19
7	,Hala Food,5,10,15,20	F	3,25
8	Pasta,Pasta8,7,6	F	19,23
9	, , ,	F	3,7,20,25
10	Irish Food,b,2,3,4	F	4,23,25
11	Desi Food,3,5,6,7	F	2,26,28
12	High Protein,5,7,8,15,20,25	F	22
13	Pizza,Biryani, 10,15,20	F	7,10
14	Chicken Rolls,5,Fast Food	F	8,10

Basis Path



We count 8 edges and 7 nodes, so V(G) = 8 - 7 + 2 = 3.

Step 3: Determine the basis set of independent paths.

Path 1: Start - Check Appetizers - Display appetizer menu - End Path 2: Start - Check Main Course - Display main course menu - End

Path 3: Start - Check Desserts - Display dessert menu - End

Path 4: Start - Check Appetizers - Invalid category message - End Path 5: Start - Check Main Course - Invalid category message - End

Path 6: Start - Check Desserts - Invalid category message - End

Step 4: Prepare test cases that force execution of each path in the basis set.

Path Input Category Expected Result

- 1 Appetizers Display appetizer menu
- 2 Main Course Display main course menu
- 3 Desserts Display dessert menu
- 4 Salads Invalid category message
- 5 Drinks Invalid category message

6 Sides Invalid category message

With these test cases, we ensure that each path in the basis set is executed, covering all possible scenarios of input categories.