Black Box Test Design

Equivalence partitioning analysis

In the following section, you will find equivalence partitioning analysis for selected user stories from the Pet Name Generator application.

Equivalence partitioning for User Story “Choose Animal Type”	
A valid input is any input that matches the current rules for animal name generation.	
Valid partition: ● Strings with 2-42 alphabetic characters only	**Valid values (positive testing):** ● "Dog" ● "Cat" ● "Elephant" ● "Dragon" ● "Hamster" ● "Parastratiosphecomyia stratiosphecomyioides"
Non-valid partitions: ● Not empty ● More than 1 letter ● No more than 42 letters ● No numeric values ● No special characters	**Non-valid values (negative testing):** ● “” ● A ● "Supercalifragilisticexpialidociousandmore" ● 123 ● Dog123 ● “ “

Equivalence Partitioning for User Story “Get Multiple Name Suggestions”	
A valid input is an integer value between 1 and 10 (inclusive) representing the number of pet names to generate.	
Valid partition: ● Integer values between 1 and 10 (inclusive)	Valid values (positive testing): ● 6
Non-valid partitions: ● Integers below 0 ● 0 ● Integers above 10 ● Non integer numbers ● Non-numeric characters	Non-valid values (negative testing): ● -5 ● 0 ● 15 ● 10.5 ● “PET

Boundary value analysis

In the following section, you will find boundary value analysis for selected user stories from the Pet Name Generator application.

Boundary value analysis for User Story “Choose Animal Type”			
A valid input is any input that matches the current rules for animal name generation between 2 and 42 characters.			
Equivalence partitions ● 0-1 (invalid) ● 2-42 (valid) ● 43-MAX INTEGER (invalid)	Middle value approach ● 1 ● 22 ● 65	Boundary values: ● 0 1 ● 2 42 ● 43	3-value approach ● 0 1 2 ● 1 2 3 41 42 43 ● 41 42 43
List of test case values: 0 1 2 3 22 41 42 43 65			

Boundary value analysis for User Story “Choose Animal Type”			
A valid input is an integer value between 1 and 10 (inclusive) representing the number of pet names to generate.			
Equivalence partitions ● 0 (invalid) ● 1-10 (valid) ● 11-MAX INTEGER (invalid)	Middle value approach ● 6 ● 16	Boundary values: ● 0 1 ● 1 10 ● 11	3-value approach ● 0 1 ● 9 10 11
List of test case values: 0 1 6 9 10 11 16			