

Black Box test-design techniques

Equivalence classes

Define equivalence classes for the "name" field if it accepts from 5 to 20 characters. Only letters are allowed.

Equivalence classes:

If the input field accepts from 5 to 20 characters inclusively and provided that they are letters and not numbers, then the equivalence classes will be:

[0-4], [5-20], [21-infinity)

Values boundaries

Determine the limit values for the name input field if it accepts from 5 to 20 characters. Only letters are allowed.

Limit values: 4, 5, 20, 21

Pairwise testing

The system must be tested on two browsers (Chrome, Safari), two operating systems (MacOS, Windows), and two screen widths (1024x768 and 1900x1600)

Using pairwise testing, generate combinations of pairs. The result is in the form of a table.

Table:

There could be a total of 8 options to check, but based on common sense, we understand that in real life Chrome doesn't work with MacOS and Safari with Windows, so that leaves 4 options to check.

<i>Chrome</i>	<i>Windows</i>	<i>1024x768</i>
<i>Chrome</i>	<i>Windows</i>	<i>1900x1600</i>
<i>Safari</i>	<i>MacOS</i>	<i>1024x768</i>
<i>Safari</i>	<i>MacOS</i>	<i>1900x1600</i>

Decision tables

The system gives a 20% discount if you are a woman, have children and you are single. If you do not have children but you are over 60 years old, the system provides a 10% discount.

Generate a decision table. The result is in the form of tables.

Table:

T - true, F - false.

Conditions	TC 1	TC 2	TC 3	TC4	TC 5	TC 6	TC 7	TC 8
female	F	F	F	F	T	T	T	T
has children	F	F	T	T	F	F	T	T
not married	F	T	F	T	F	T	F	T
ACTIONS								
discount 20%	-	-	-	-	-	-	-	+

Умови	TC 1	TC 2	TC 3	TC 4
age: >60 years	F	F	T	T
without children	F	T	F	T
ACTIONS				
discount 10%	-	-	-	+