Unit- III
BBT Test Case – Case Study

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Case Study-1

- Develop black box test cases using ECP & BVA to test the requirement- If student has score >=75, he will pass the exam, otherwise he will fail.(Total score is an integer)
- Solution –
- BVA- 74,75,76,0,-1,1,99,100,101
- ECP

Valid/Invalid Partition	Partition/Class	Expected Output
Valid Equivalence Class	Total score >=75	Result- Pass
Valid Equivalence Class	Total score<75	Result- Fail
Invalid Equivalence Class	Total score <0 Total score =blank/NULL	Result – Error Message
Invalid Equivalence Class	Total score>100	Result – Error Message

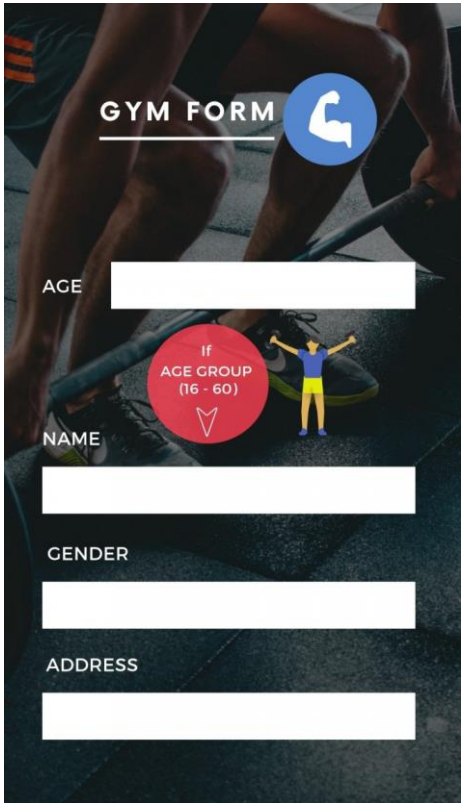
Case Study-1

- Test cases

Test case Id	Partition/ Class	Type of input	Test data	Expected Result	Status
BB_TC_001	Total score >=75	valid	75,76,99,100	Result- Pass	Pass
BB_TC_002	Total score<75	Valid	74,0,1	Result- Fail	Pass
BB_TC_003	Total score<0	Invalid	-1	Result – Error Message	Pass
BB_TC_004	Total score <0 Total score =blank/NULL	Invalid	NULL/ BLABK	Result – Error Message	Pass
BB_TC_005	Total score>100	Invalid	101	Result – Error Message	Pass

Case Study-2

- Develop test cases for input box age in following Gym registration form



Case study solution

- The first step of Boundary value analysis is to create Equivalence Partitioning, which would look like below.

- Now Concentrate on the Valid Partition, which ranges from 16-60.
- We have a 3 step approach to identify boundaries:
  - *Identify Exact Boundary Value of this partition Class – which is 16 and 60.*
  - *Get the Boundary value which is one less than the exact Boundary – which is 15 and 59.*
  - *Get the Boundary Value which is one more than the precise Boundary – which is 17 and 61.*
  - If we combine them all, we will get below combinations for Boundary Value for the Age Criteria.
  - *Valid Boundary Conditions : Age = 16, 17, 59, 60*
  - *Invalid Boundary Conditions : Age = 15, 61*

Expected output

- *If (age < = 17) Then Don't allow Gym Membership*
- *If (age > 60) Then Don't allow Gym Membership*
- *If (age>=16 and age <= 60) Then allow Gym membership !*

BB Test cases

Test case Id	Partition/ Class	Type of input	Test data	Expected Result	Status
BB_TC_001	*(age>=16 and age <= 60*	Valid	*16, 17, 59, 60*	Membership allowed, Cursor move to next text field Name	Pass
BB_TC_002	*age < = 17*	Invalid	*15*	Error Message " Gym membership not allowed"	Pass
BB_TC_003	*age > 60*	Invalid	*61*	Error Message " Gym membership not allowed"	Pass