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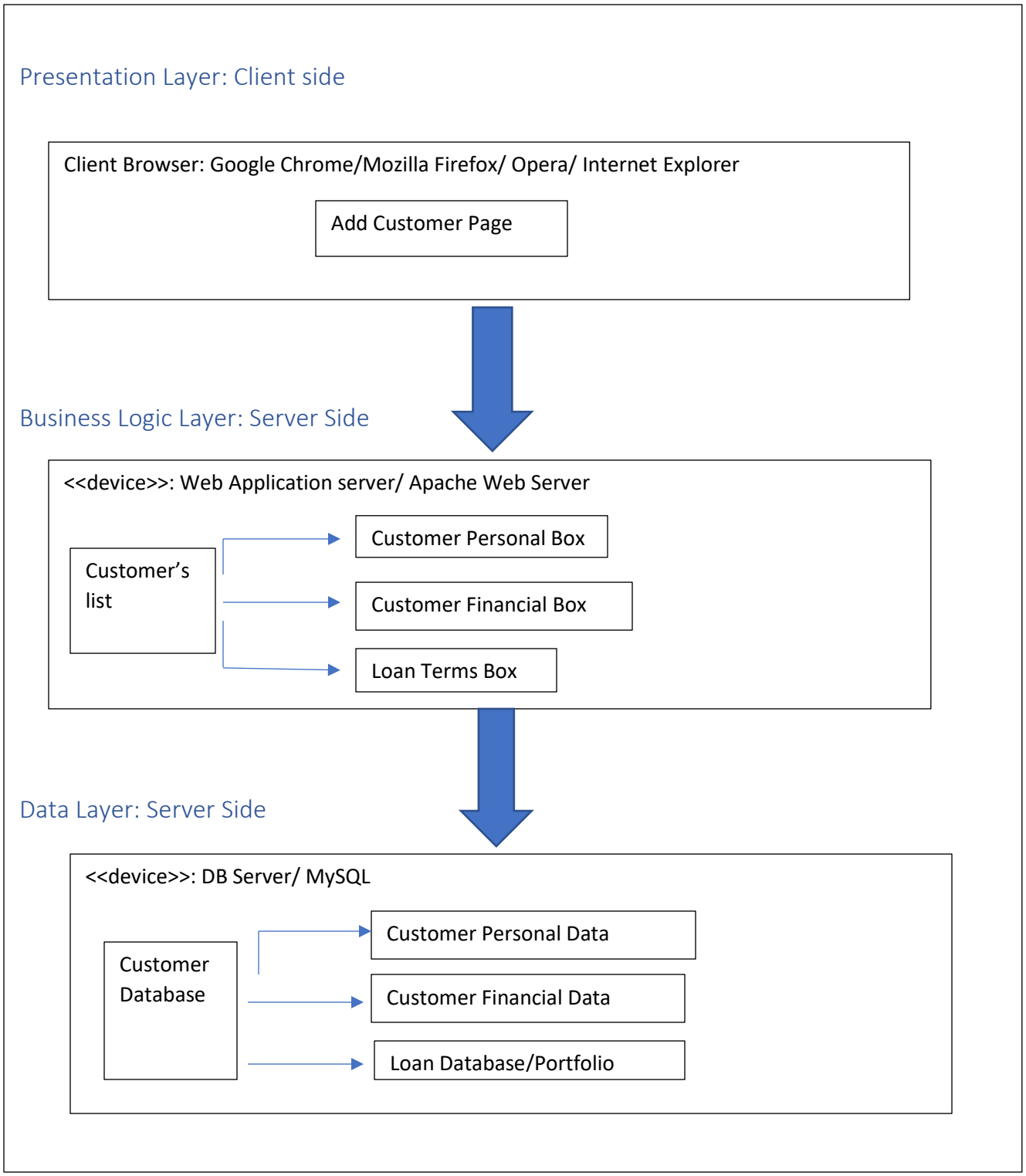
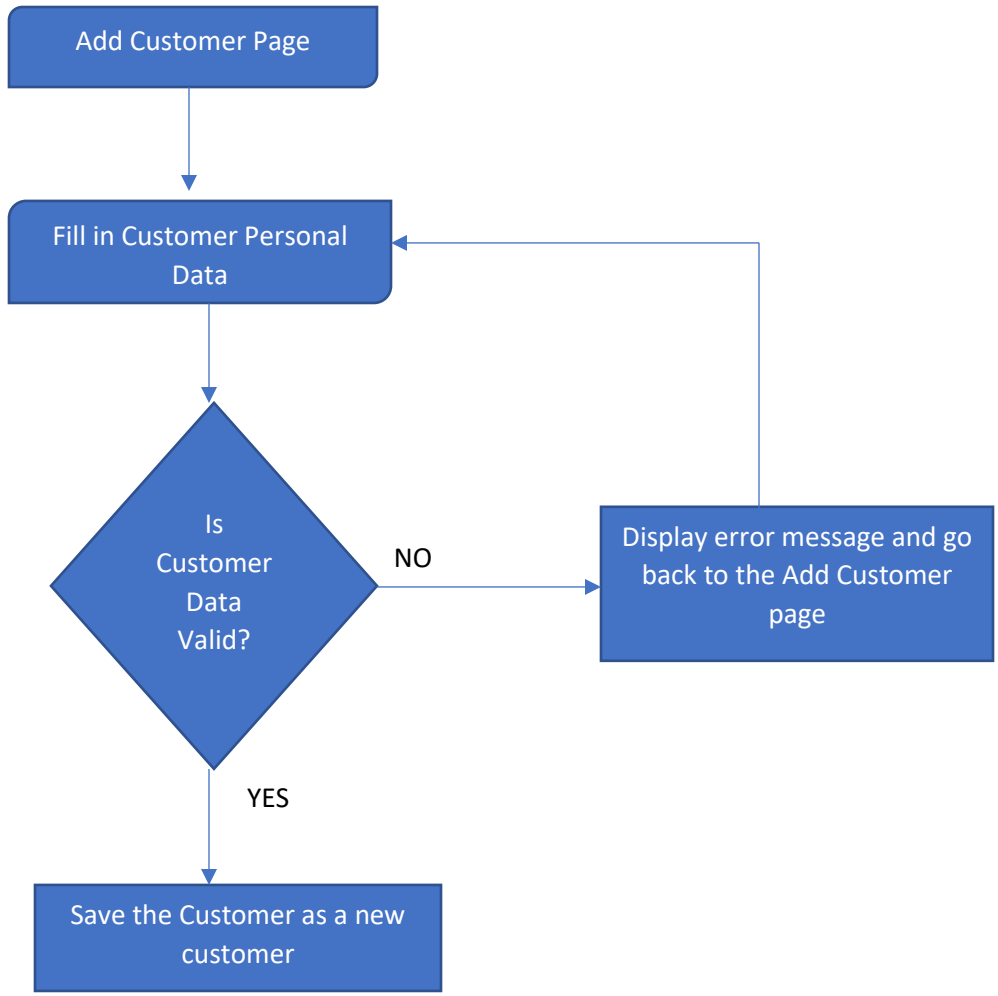
Architecture Diagram to create a new customer in LoanApp

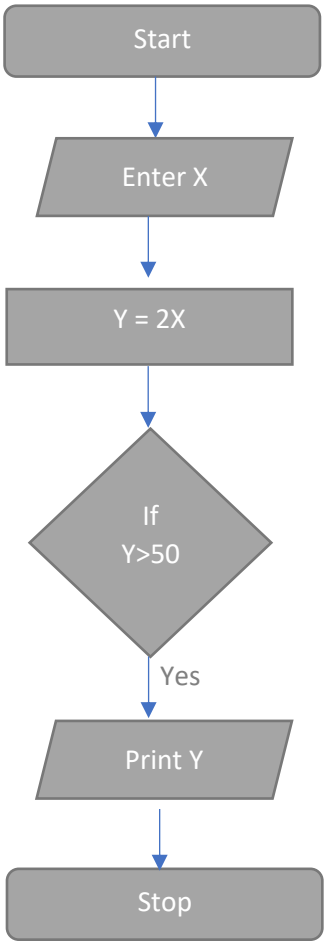


System Process Flow Diagram



Code Coverage exercises

Exercise 1:

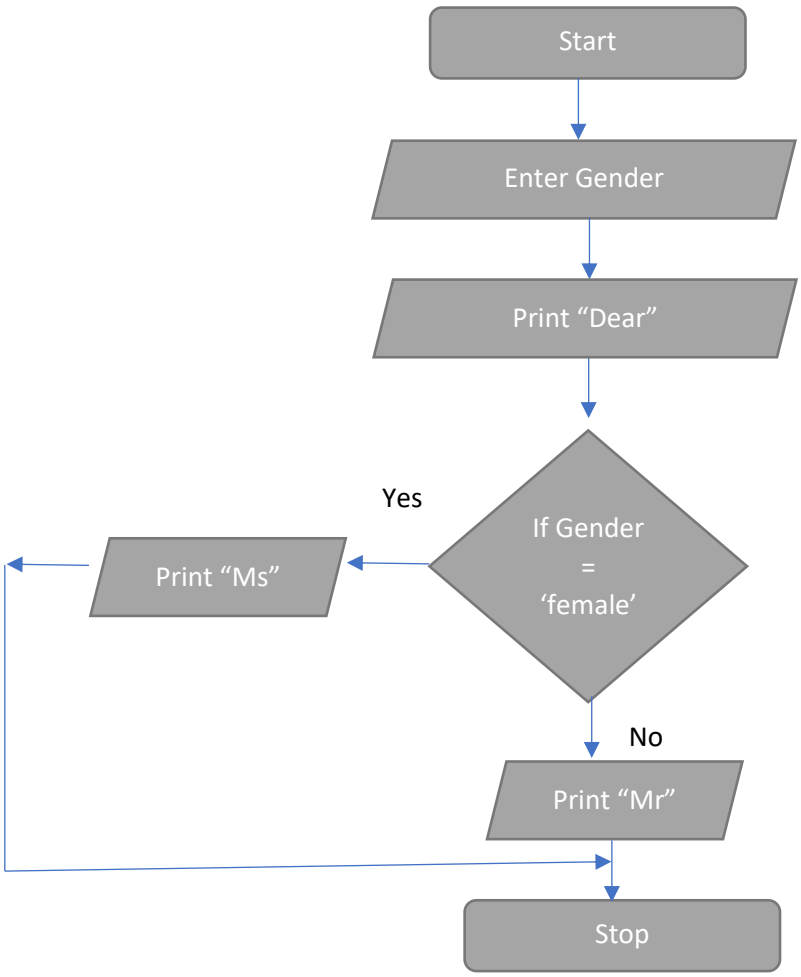


- What is the value of X should be in order to achieve 100% statement coverage in just one test case?

Ans: Value of X larger than 25, such that when it multiplies by 2, the value of Y is large than 50.

So, Only Test Case: X > 25 (True Condition) that covers 100%; prints Y and stops the program.

Exercise 2:

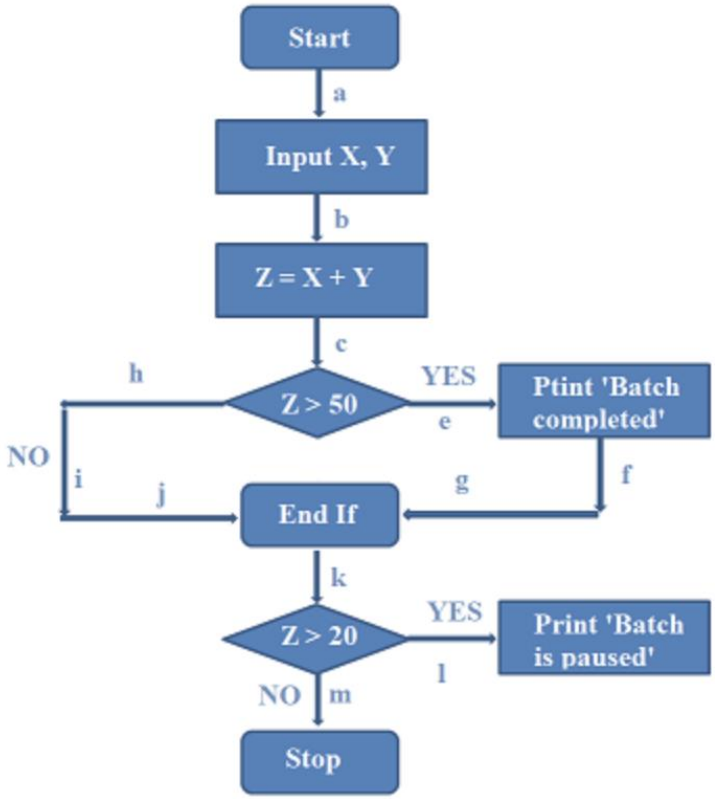


- How many tests are required to achieve 100% decision coverage?

Ans: To achieve 100% decision coverage for the above segment of code we need 2 test cases, such as:

- Test case 1: Gender = female. This case executes that the ‘Print “Ms”’ statement (True Statement).
- Test case 2: Gender = female. This case executes that the ‘Print = “Mr”‘ statement (False Statement).

Exercise 3:



Pseudo code for the diagram:

1. Begin
2. Read X, Y
3. Z = X + Y
4. If-then Z > 50
5. Print (“Batch completed”)
6. End if
7. If Z > 20
8. Print (“Batch is paused”)
9. Else
10. Stop

Ans: To achieve 100% path coverage for the above segment of code we need 2 test cases, such as:

- Test case 1: a,b,c,h,i,j,k,m (False, False).
- Test case 2: a,b,c,e,f,g,k,m (True, False).
- Test case 3: a,b,c,h,i,j,k,l (False, True).
- Test case 4: a,b,c,e,f,g,k,l (True, True).