**HIGH LEVEL DOCUMENTATION**

**JAVA RULES REPORT**

BHAVYA JS

REQUIREMENTS:

To capture all the conditional statements and also split the nested conditional statements.

CODE EXPLANATION:

1.Createdict Function.

This python function returns dictionary for each java functions in each file. The dictionary has key as function name and value as list of lines in that function.

2. Get all reports Function.

This python function goes through the dictionary that is returned from the Createdict function and forms a list named conditions list for storing all the lines of the conditional statements and in parallel it removes all the commented lines. Then the conditions list is read again once to fetch the count of the conditional statements. If the count remains one then the list is converted to string named conditions and stored in json, if the count becomes two then the nested conditions are separated and stored in json. The json has six fields named ‘Fragment id’ that stores name of the file along with rule number, ‘pgm name’ that stores the file name, ‘para name’ that stores the function name, ‘Rule’ that stores the count of the condition statements, ‘Source statements’ that stores the conditional statements and ‘rule relation’ it is applicable only for nested conditional statements that stores the rule id of the parent conditional statement if applicable. Finally the jsons are stored in Metadata and inserted to database.

FLOW CHART:

