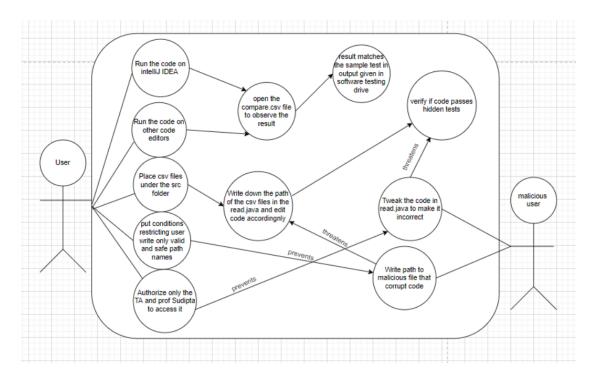
Equivalence Class Partitioning



From the use case diagram above, we can look at the requirement which is putting conditions restricting users to write only valid and safe path names. Hence we divide into classes, **one** class with the valid path of csv files and another class with the invalid path of CSV files

- Divide input conditions into two classes
 - Valid path of sample_file_1.csv & sample_file_3.csv
 - Ex:"./src/sample file 1.csv"
 - Ex:"./src/sample_file_3.csv"
 - Invalid path of sample file 1.csv & sample file 3.csv
 - Ex:"./xml/sample_file_1.csv"
 - (csv file not stored under xml)
 - Ex:"./.idea/sample_file_1.csv"
 - (csv file not stored under .idea)
 - Ex:"./Intellijideaprojects/sample_file_1.csv"
 - (invalid directory- Intellijideaprojects)

Valid path of sample file 1.csv & sample file 3.csv

When we input valid path names of the CSV files in the scanner class, we can expect a compare.csv with the valid result with the differences between sample_file_1.csv & sample_file_3.csv to be generated

Invalid path of sample file 1.csv & sample file 3.csv

However, when we input the Invalid path names of the CSV files in the scanner class, an empty compare.csv will be generated not listing the differences between sample_file_1.csv & sample_file_3.csv.

Boundary Value Analysis

- Divide input conditions into two classes
 - Valid path of sample file 1.csv & sample file 3.csv
 - Middle value
 - "./src/sample file 1.csv"
 - boundary value
 - "C:\Users\sahana\IdeaProjects\ESC_Project_1\src\sample_file_1.csv
 - Invalid path of sample_file_1.csv & sample_file_3.csv
 - Middle value :Wrong path (sample file 1.csv not under xml)
 - Ex:"./xml/sample_file_1.csv"
 - Boundary Value : not even in format of path
 - Ex:sample file 1.csv

The first class contains the valid path of sample file 1.csv & sample file 3.csv.

The **middle value** is the **shortened path of csv file which is truncated** and starts with ./ to allow the file to be read.

The boundary value is the maximum length of the path of the csv file and the actual full path of the csv file.

In conclusion for both the middle and boundary value in the first class, when we input valid path names of the CSV files in the scanner class, we can expect a compare.csv with the valid result with the differences between sample_file_1.csv & sample_file_3.csv to be generated

The second class Invalid path of sample file 1.csv & sample file 3.csv.

The middle value contains the wrong path with the wrong directory "XML" but still in the format of the path: "./xml/sample_file_1.csv".

The boundary value is which is the name of csv file <code>sample_file_1.csv</code> which is not even in the format of the path and the scanner class cannot accept the name of csv file In conclusion for both the middle and boundary value in the second class when we input the Invalid path names of the CSV files in the scanner class, an empty compare.csv will be generated not listing the differences between <code>sample_file_1.csv</code> & <code>sample_file_3.csv</code>.