Complexity Report Student no: u13376234

1. Structural Complexity

1a. $S(i) = f^2_{out}(i)$ for the user

$= 1$

1b. $S(i) = f^2_{out}$ for the catalogue

$= 16$

The total Structural Complexity is 17

2. Data Complexity

$D(i) = \frac{v(i)}{f_{out}(i)+1}$ is the formula

where v(i) is the number of input and output variables that are passed to and from the module i.

For the user $D(i) = \frac{v(i)}{f_{out}(i)+1}$

$= \frac{4}{3} = 1,4$

for the catalogue $D(i) = \frac{v(i)}{f_{out}(i)+1}$

$= \frac{6}{4+1} = 1,2$

Total = 1,4 + 1,2 = 2,6

3. System Complexity

$C(i) = S(i) + D(i)$

$= 17 + 2,6 = 19,6$

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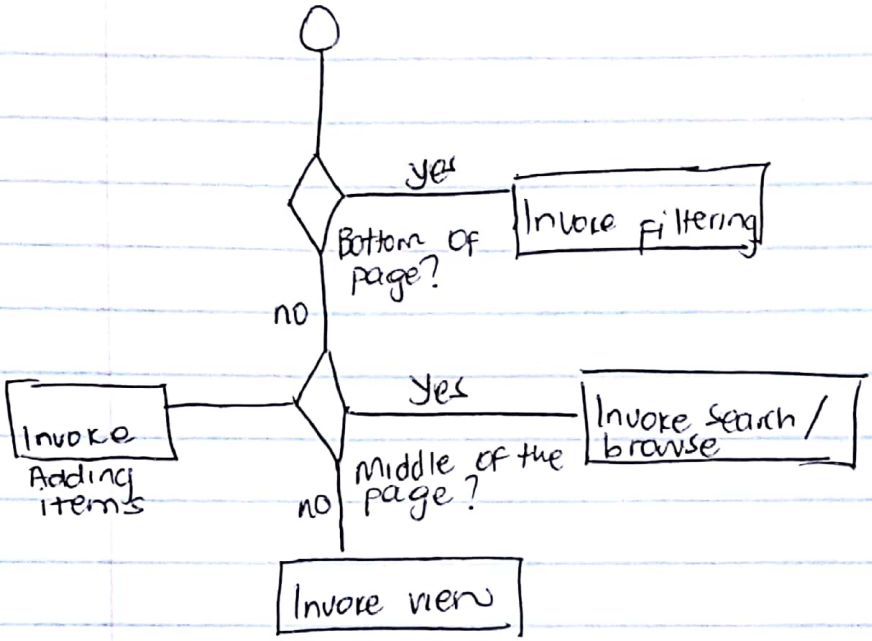
Cyclomatic Complexity

User clicks with a mouse



Edges = 5

nodes = 4

Predicate nodes = 5

$V(G) = E - N + 2$

$= 5 - 4 + 2$

$= 3$

$V(G) = P + 1$

$= 5 + 1$

$= 6$

$m = i1 + (q_6 * i2) + u1 + (q_7 \times u2) + g1 + (q_8 \times g2) + w + r$

$= 21,8$

Coupling $= 1/m$

$= 1/21,8$

$= 0,047$

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Cohesion

No. of statements = 21

~~Cohesion~~ Tightness = 18/21 = 0,857

MinCoverage = 13/21 = 0,61

Coverage = 1/2 (13/21 + 19/21) = 0,76

MaxCoverage = 19/21 = 0,90

Overlap = 1/2 (13/15 + 18/21) = 0,84

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