Report Banner - Edit rsm.cfg File

Resource Standard Metrics™ for C, C++, C# and Java
Version 7.75 - <u>mSquaredTechnologies.com</u>

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License No. : SW1380

Build Date : Sep 2 2009

License Date: Dec 05, 1998

Run Date: Apr 22, 2024

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License File: C:\Program Files (x86)\MSquared\M2 RSM\rsm.lic
Config. File: C:\Program Files (x86)\MSquared\M2 RSM\rsm.cfg

Command Line: -H -OC:\Users\prash\M2 RSM Wizard\output\output.htm -c -e -fa -fp -fd -FC:\Users\prash\M2 RSM Wizard\input\rsm_file_

list.lst

~~ Function Metrics ~~
~~ Complexity Detail Analysis ~~

File: <u>D:\ASU\Classes\SPPQM CSE566\Assignments 566\A5\A5 Java files\InventoryManagementSystem.java</u>

<u>Function</u>: InventoryManagementSystem.InventoryManagementSystem

Parameters: ()

Param 0 Cyclo Vg 1 2 Complexity Return 1 Total LOC 4 eLOC 3 1LOC 2 Comment 0 Lines **Function Points** FP(LOC) 0.1 FP(eLOC) 0.1 FP(1LOC) 0.0

Function: InventoryManagementSystem.addItem

Parameters: (String name, double price, int quantity)

Cyclomatic Complexity Vg Detail
Function Base : 1

Conditional if / else if: 1

Complexity Param 3 Return 1 Cyclo Vg 2 Total 6 LOC 9 eLOC 7 1LOC 5 Comment 0 Lines 10 **Function Points** FP(LOC) 0.2 FP(eLOC) 0.1 FP(1LOC) 0.1

Function: InventoryManagementSystem.removeItem

Parameters: (String name, int quantity)

Cyclomatic Complexity Vg Detail Function Base : 1

Conditional if / else if: 2

Complexity Param 2 Return 2 7 Cyclo Vg 3 Total LOC 14 eLOC 11 1LOC 8 Comment 0 Lines 16 **Function Points** FP(LOC) 0.3 FP(eLOC) 0.2 FP(1LOC) 0.2

Function: InventoryManagementSystem.updateItemPrice

Parameters: (String name, double newPrice)

Cyclomatic Complexity Vg Detail Function Base : 1

Conditional if / else if: 1

Complexity Param 2 Return 1 Cyclo Vg 2 Total 5 LOC 9 eLOC 7 1LOC 5 Comment 0 Lines 10 FP(LOC) 0.2 FP(eLOC) 0.1 FP(1LOC) **Function Points** 0.1

Function: InventoryManagementSystem.searchItemByName

Parameters: (String name)

Cyclomatic Complexity Vg Detail
Function Base : 1
Conditional if / else if: 1

Complexity Param 1 Return 1 Cyclo Vg 2 Total 4 LOC 8 eLOC 6 1LOC 4 Comment 0 Lines 9

| 22/24, J.JZ F W | | | Nesource 3 | stanuaru Metrics 7 | .75 |
|-------------------------------------|--------------|-----------------------------------|--------------------------|--------------------|--------|
| Function Poi | .nts | FP(LOC) 0.2 | FP(eLOC) 0.1 | FP(1LOC) | 0.1 |
| <u>Function:</u> In | ventoryMana | agementSystem.dis | playInventory | | |
| Parameters: | | | | | |
| Cyclomatic | Complexity | / Vg Detail | | | |
| Function | Base | : 1 | | | |
| Loops fo | r / foreach | ı : 1 | | | |
| Conditio | nal if / el | lse if: 1 | | | |
| Complexity | Param 0 | Return 1 | Cyclo Vg 3 | Total | 4 |
| LOC 10 | eLOC 7 | 1LOC 5 FP(LOC) 0.2 | Comment 0 | Lines | 11 |
| Function Poi | .nts | FP(LOC) 0.2 | FP(eLOC) 0.1 | FP(1LOC) | 0.1 |
| Function: In | ventoryMana | agementSystem.fin | dItemByName | | |
| Parameters: | | | • | | |
| Cyclomatic | Complexity | / Vg Detail | | | |
| Function | Base | : 1 | | | |
| | or / foreach | | | | |
| Conditio | nal if / el | lse if: 1 | | | |
| Complexity | Param 1 | Return 2 | Cyclo Vg 3 | Total | 6 |
| LOC 8 | eLOC 5 | 1LOC 3 | Comment 0 | Lines | 8 |
| Function Poi | nts | Return 2 1LOC 3 FP(LOC) 0.2 | FP(eLOC) 0.1 | FP(1LOC) | 0.1 |
| <u>Function</u> : In | ventoryMana | agementSystem.mai | n | | |
| Parameters: | (String[] a | args) | | | |
| | | Return 1 | | | 3 |
| LOC 10 | eLOC 9 | 1LOC 8 | Comment 0 | Lines | 13 |
| Function Poi | .nts | FP(LOC) 0.2 | FP(eLOC) 0.2 | FP(1LOC) | 0.2 |
| <u>Function</u> : It | em.Item | | | | |
| | | ne, double price, | <pre>int quantity)</pre> | | |
| Complexity | Param 3 | Return 1 | Cyclo Vg 1 | Total | 5 |
| LOC 5 | eLOC 4 | 1LOC 3 | Comment 0 | Lines | 5 |
| Function Poi | .nts | FP(LOC) 0.1 | FP(eLOC) 0.1 | FP(1LOC) | 0.1 |
| <u>Function</u> : It | em.getName | | | | |
| Parameters: | | | | | |
| Complexity | Param 0 | Return 1 | Cyclo Vg 1 | Total | 2 |
| LOC 3 | eLOC 2 | ILOC 1 | Comment 0 | Lines | 3 |
| Function Poi | .nts | FP(LOC) 0.1 | FP(eLOC) 0.0 | FP(1LOC) | 0.0 |
| Function: It | em.getPrice | <u>.</u> | | | |
| Parameters: | _ | | | | |
| Complexity | ** | Return 1 | Cyclo Vg 1 | Total | 2 |
| LOC 3 | eLOC 2 | lLOC 1 | Comment 0 | Lines | 3 |
| Function Poi | .nts | FP(LOC) 0.1 | FP(eLOC) 0.0 | FP(1LOC) | 0.0 |
| <u>Function</u> : It | om gotOuant | -i+v | | | |
| Parameters: | | ity | | | |
| Complexity | * * | Return 1 | Cyclo Vg 1 | Total | 2 |
| LOC 3 | eLOC 2 | lLOC 1 | Comment 0 | Lines | 3 |
| Function Poi | | FP(LOC) 0.1 | FP(eLOC) 0.0 | | 0.0 |
| Francisco - Fr | am astos | | | | |
| <u>Function</u> : It Parameters: | | | | | |
| Complexity | • | Return 1 | Cyclo Va 1 | Total | 2 |
| LOC 3 | eLOC 2 | lLOC 1 | Cyclo Vg 1 Comment 0 | Lines | 3 3 |
| Function Poi | | FP(LOC) 0.1 | FP(eLOC) 0.0 | | 0.0 |
| F | | • | · · · · · | · • | |
| <u>Function</u> : It Parameters: | | | | | |
| Complexity | | Return 1 | Cyclo Vg 1 | Total | 3 |
| LOC 3 | eLOC 2 | lLOC 1 | Comment 0 | Lines | 3 |
| Function Poi | | FP(LOC) 0.1 | FP(eLOC) 0.0 | | 0.0 |
| | | , , | • • • | • • • • | |
| <u>Function</u> : It | em.toString | g | | | |

Function: Item.toString

| Parameters: () Complexity Param 0 LOC 3 eLOC 2 Function Points | lLOC 1 | Comment 0 | Lines | 2 3 0.0 |
|--|---------------|--|-----------|---------------|
| | ~~ Total Fil | e Summary ~~ | | |
| LOC 106 eLOC 80 Function Points | FP(LOC) 2.0 | Comment 3 FP(eLOC) 1.5 | FP(1LOC) | 1.0 |
| ^ | ~ File Functi | onal Summary ~~ | | |
| File Function Count | : 15 | | | |
| Total Function LOC | | Total Function Pt | s LOC : | 2.0 |
| Total Function eLOC | | Total Function Pt | s eLOC: | 1.5 |
| Total Function 1LOC | | Total Function Pt | | 1.0 |
| Total Function Params . Total Cyclo Complexity | : 24 | Total Function Re | omplex.: | 17 56 |
| Max Function LOC | | Average Function | | 6.33 |
| Max Function eLOC | | Average Function | | 4.73 |
| Max Function 1LOC | | Average Function | 1LOC .: | 3.27 |
| Max Function Parameters | s: 3 | Avg Function Para | meters: | 1.00 |
| Max Function Returns | | Avg Function Retu | | 1.13 |
| Max Interface Complex. | | Avg Interface Com | | 2.13 |
| Max Cyclomatic Complex. Max Total Complexity | | Avg Cyclomatic Co Avg Total Complex | | 1.60 3.73 |
| max rotal complexity | , , | Avg Total Complex | arty | 3.73 |
| ~~ 1 | | For 1 Files ~~ | | |
| | | | | |
| | ~~ Total Proj | ect Summary ~~ | | |
| LOC 106 eLOC 80 Average per File, metri | | Comment 3 | Lines | 131 |
| | | Comment 3 | Lines | 131 |
| LOC 106 eLOC 80 Function Points | FP(LOC) 2.0 | FP(eLOC) 1.5 | FP(1LOC) | 1.0 |
| | | | | |
| ~~ | Project Funct | ional Metrics ~~ | | |
| <pre>Function: InventoryMana Parameters: ()</pre> | | | | |
| Complexity Param 0 | Return 1 | Cyclo Vg 1 | Total | 2 |
| Complexity Param 0 LOC 4 eLOC 3 Function Points | 1LOC 2 | Comment 0 | Lines | 4 |
| Function Points | FP(LOC) 0.1 | FP(eLOC) 0.1 | FP(1LOC) | 0.0 |
| Function: InventoryMana | | | | |
| Parameters: (String nam | | | | _ |
| Complexity Param 3 | Keturn 1 | Cyclo Vg 2 | Total | 6 10 |
| LOC 9 eLOC 7 Function Points | FP(LOC) 0.2 | FP(el OC) 0.1 | ED(11 UC) | 0.1 |
| . WHECTON FUTILES | 11 (100) 0.2 | 11 (6100) 0.1 | (1100) | 9.1 |

| | | agementSystem.re | | | |
|----------------------------------|--------------|-----------------------|-------------------------|----------|-----|
| | | me, int quantity | | | |
| Complexity | Param 2 | Return 2 | Cyclo Vg 3 Comment 0 | Total | 7 |
| LOC 14 | eLOC 11 | 1LOC 8 | Comment 0 | Lines | 16 |
| Function Po | ints | FP(LOC) 0.3 | FP(eLOC) 0.2 | FP(1LOC) | 0.2 |
| Function: To | nventorvMan | agementSystem.up | ndateItemPrice | | |
| | | me, double newPr | | | |
| | | | Cyclo Vg 2 | Total | 5 |
| INC 0 | ALOC 7 | Return 1 | Comment A | | 10 |
| Eunction Do | inte | ED(LOC) A 2 | Comment 0 FP(eLOC) 0.1 | FP(1LOC) | |
| FullCtion Po. | IIICS | FP(LOC) 0.2 | PP(eLOC) 0.1 | FF(ILUC) | 0.1 |
| Function: I | nventoryMan | agementSystem.se | earchItemByName | | |
| Parameters: | | | | | |
| | | | Cyclo Vg 2 | Total | 4 |
| LOC 8 | eLOC 6 | 1LOC 4 | Comment 0 | Lines | 9 |
| Function Po | ints | FP(LOC) 0.2 | FP(eLOC) 0.1 | FP(1LOC) | |
| | | | | | |
| <u>Function</u> : In Parameters: | | agementSystem.di | isplayInventory | | |
| | | Potunn 1 | Cyclo Vg 3 | Total | 4 |
| Complexity | Parall b | Keturi I | Comment 0 | | |
| | | | FP(eLOC) 0.1 | | 11 |
| Function Po | ints | FP(LUC) 0.2 | FP(eLOC) 0.1 | FP(ILUC) | 0.1 |
| Function: I | nventoryMan | agementSystem.fi | indItemByName | | |
| Parameters: | (String na | me) | , , , , | | |
| Complexity | Param 1 | Return 2 | Cvclo Vg 3 | Total | 6 |
| LOC 8 | eLOC 5 | 1LOC 3 | Cyclo Vg 3 Comment 0 | Lines | 8 |
| Function Po | ints | FP(LOC) 0.2 | FP(eLOC) 0.1 | FP(1LOC) | 0.1 |
| | | | | | |
| | | agementSystem.ma | ain | | |
| Parameters: | | | | | |
| Complexity | Param 1 | Return 1 | Cyclo Vg 1 | Total | 3 |
| LOC 10 | eLOC 9 | 1LOC 8 FP(LOC) 0.2 | Comment 0 | Lines | 13 |
| Function Po | ints | FP(LOC) 0.2 | FP(eLOC) 0.2 | FP(1LOC) | 0.2 |
| Function: T | tom Itom | | | | |
| Function: I | | ma daubla poias | | | |
| | | | e, int quantity) | T-4-1 | _ |
| | | | Cyclo Vg 1 | Total | 5 |
| 200 5 | C_00 - | 1LOC 3 | | Lines | 5 |
| Function Po | ints | FP(LOC) 0.1 | FP(eLOC) 0.1 | FP(ILUC) | 0.1 |
| Function: I | tem.getName | | | | |
| Parameters: | | | | | |
| Complexity | | Return 1 | Cyclo Vg 1 | Total | 2 |
| LOC 3 | eLOC 2 | 1LOC 1 | Comment 0 | Lines | 3 |
| Function Po: | | FP(LOC) 0.1 | | | 0.0 |
| | | • • | • • | , , | |
| <u>Function</u> : I | | e | | | |
| Parameters: | () | | | | |
| Complexity | Param 0 | Return 1 | Cyclo Vg 1 | Total | 2 |
| LOC 3 | eLOC 2 | 1LOC 1 | Comment 0 | Lines | 3 |
| Function Po | ints | FP(LOC) 0.1 | FP(eLOC) 0.0 | FP(1LOC) | 0.0 |
| Eunstion: T | tom gotOuan | +++, | | | |
| Function: I | | стсу | | | |
| Parameters: | * * | Dotum 1 | Cuclo V- 1 | Tatal | _ |
| Complexity | | Return 1 | Cyclo Vg 1 | Total | 2 |
| LOC 3 | eLOC 2 | 1LOC 1 | Comment 0 | Lines | 3 |
| Function Po | TULZ | FP(LOC) 0.1 | FP(eLOC) 0.0 | FP(1LOC) | 0.0 |
| Function: I | tem.setPric | e | | | |
| Parameters: | | | | | |
| Complexity | | Return 1 | Cyclo Vg 1 | Total | 3 |
| LOC 3 | eLOC 2 | lLOC 1 | Comment 0 | Lines | 3 |
| - | - | | - | | _ |

| /22/24, 3:52 PM | | Resource Standa | rd Metrics 7.75 |
|------------------------------|----------------|-----------------------|-----------------|
| Function Points | FP(LOC) 0.1 | FP(eLOC) 0.0 FP | (1LOC) 0.0 |
| | | | |
| Function: Item.removeQua | antity | | |
| Parameters: (int amount) |) | | |
| Complexity Param 1 | Return 1 | Cyclo Vg 1 | Total 3 |
| LOC 3 eLOC 2 | 1LOC 1 | Comment 0 | Lines 3 |
| LOC 3 eLOC 2 Function Points | FP(LOC) 0.1 | FP(eLOC) 0.0 FP | (1LOC) 0.0 |
| | ` , | • | ` , |
| Function: Item.toString | | | |
| Parameters: () | | | |
| Complexity Param 0 | Return 1 | Cyclo Vg 1 | Total 2 |
| LOC 3 ALOC 2 | 1100 1 | Comment 0 | linos 3 |
| LOC 3 eLOC 2 Function Points | ED(10C) A 1 | | (1100) 0.0 |
| Tunction Formes | 17(100) 0.1 | Tr(eloc) 0.0 Tr | (1100) 0.0 |
| Total: Functions | | | |
| LOC 95 eLOC 71 | 1100 49 | InCmn 32 Cv | cloCmp 24 |
| 200 93 | 1100 49 | Themp 32 Cy | CIOCIIIP 24 |
| Function Points | ED(IOC) 1 8 | ED(ALOC) 1 3 ED | (1100) 00 |
| Function Points | FF(LUC) 1.8 | PP(ELOC) 1.3 PP | (1100) |
| | | | |
| | | | |
| | One-test Funct | ional Analysis | |
| ~~ | roject Funci | cional Analysis ~~ | |
| Total Eurotions | . 4- | Total Dhysical Lines | . 404 |
| Total Functions | | Total Physical Lines | |
| Total LOC | | Total Function Pts LO | |
| Total eLOC | | Total Function Pts eL | |
| Total 1LOC | | Total Function Pts lL | |
| Total Cyclomatic Comp. | | Total Interface Comp. | |
| Total Parameters | | Total Return Points . | |
| Total Comment Lines: | : 0 | Total Blank Lines | : 9 |
| | | | |
| Avg Physical Lines | 6.93 | | |
| Avg LOC | 6.33 | Avg eLOC | : 4.73 |
| Avg 1LOC | 3.27 | Avg Cyclomatic Comp. | : 1.60 |
| Avg Interface Comp | 2.13 | Avg Parameters | : 1.00 |
| Avg Return Points | | | |
| | | | |
| Max LOC | : 14 | | |
| Max eLOC | | Max 1LOC | : 8 |
| Max Cyclomatic Comp | | Max Interface Comp | |
| Max Parameters | | Max Return Points | |
| Max Comment Lines | | Max Total Lines | |
| riax Comment Lines | - | riax Total Lines | |
| Min LOC | | | |
| Min eLOC | | Min 1100 | . 1 |
| | | Min 1LOC | |
| Min Cyclomatic Comp | | Min Interface Comp | |
| Min Parameters | | Min Return Points | |
| Min Comment Lines | : 0 | Min Total Lines | : 3 |
| | | | |
| | | | |
| | | | |
| | ~~ Estimation | on Analysis ~~ | |
| | | | |
| | Function | nal Basis | |
| | | | |
| Total Function Count | | | |
| Total Function LOC | | Total Function eLOC . | |
| Total Function 1LOC | | Total Function Commen | |
| Total Func. Parameters | : 15 | Total Function Return | s: 17 |
| Total Cylco. Complexity | : 24 | Total Function Comple | x.: 56 |
| | | | |
| | LOC Estimat | ion Factors | |
| | | | |
| Lines of Code, LOC, per | | | |
| Lines of Code, LOC, per | | | |
| | • | | |

| , | | | | |
|---|-------|-----------------------------------|--------------|--|
| Lines of Code, LOC, per Function | n Ret | urn State: | 5.59 | |
| LOC per Function Interface Complexity (Parameters + Return) : | | | | |
| LOC per Function Cyclomatic Complexity: | | | | |
| LOC per Function Complexity (Cy | cloma | tic+Interface Complex.) : | 1.70 | |
| eLOC E | stima | ntion Factors | | |
| Effective Lines of Code, eLOC, | per F | unction | 4.73 | |
| Effective Lines of Code, eLOC, | per F | unction Input Parameter : | 4.73 | |
| Effective Lines of Code, eLOC, | per F | unction Return State: | 4.18 | |
| eLOC per Function Interface Com | | | 2.22 | |
| eLOC per Function Cyclomatic Complexity: | | | | |
| eLOC per Function Complexity (C | yclom | natic+Interface Complex.): | 1.27 | |
| 1LOC E | stima | ntion Factors | | |
| Logical Lines of Code, 1LOC, pe | | | 3.27 | |
| Logical Lines of Code, 1LOC, per Function Input Parameter: | | | 3 .27 | |
| Logical Lines of Code, 1LOC, pe | | | 2.88 1.53 | |
| 110C per Function Interface Complexity (Parameters + Return): | | | | |
| 1LOC per Function Cyclomatic Complexity: | | | | |
| 1LOC per Function Complexity (C | yclom | natic+Interface Complex.): | 0.88 | |
| | | | | |
| ~~ F | ile S | Summary ~~ | | |
| C Source Files *.c: | 0 | C/C++ Include Files *.h: | 0 | |
| C++ Source Files *.c* .: | 0 | C++ Include Files *.h* : | 0 | |
| C# Source Files *.cs: | 0 | Java Source File *. <i>jav</i> *: | 1 | |
| Other Source Files: | 0 | | | |
| Total File Count: | 1 | | | |
| | | | | |

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