Report Banner - Edit rsm.cfg File

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

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License No. : SW1380 License Date: Dec 05, 1998
Build Date : Sep 2 2009 Run Date: Apr 22, 2024

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: D:\ASU\Classes\SPPQM CSE566\Assignments 566\A5\A5 Java files\InventoryManagementSystem.java

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Function: InventoryManagementSystem.InventoryManagementSystem
Parameters: ()

Complexity	Param 0	Return 1	Cyclo Vg 1	Total	2
LOC 4	eLOC 3	lLOC 2	Comment 0	Lines	4
Function Points	FP(LOC) 0.1	FP(eLOC) 0.1	FP(lLOC)	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	lLOC 5	Comment 0	Lines	10
Function Points	FP(LOC) 0.2	FP(eLOC) 0.1	FP(lLOC)	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	Cyclo Vg 3	Total	7
LOC 14	eLOC 11	lLOC 8	Comment 0	Lines	16
Function Points	FP(LOC) 0.3	FP(eLOC) 0.2	FP(lLOC)	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	lLOC 5	Comment 0	Lines	10
Function Points	FP(LOC) 0.2	FP(eLOC) 0.1	FP(lLOC)	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	lLOC 4	Comment 0	Lines	9

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Function Points         FP(LOC) 0.2     FP(eLOC) 0.1    FP(lLOC)     0.1

Function: InventoryManagementSystem.displayInventory
Parameters: ()
  Cyclomatic Complexity Vg Detail
    Function Base           : 1
    Loops for / foreach     : 1
    Conditional if / else if: 1
Complexity   Param 0       Return 1      Cyclo Vg 3       Total        4
LOC 10       eLOC 7        lLOC 5        Comment 0        Lines       11
Function Points         FP(LOC) 0.2     FP(eLOC) 0.1    FP(lLOC)     0.1

Function: InventoryManagementSystem.findItemByName
Parameters: (String name)
  Cyclomatic Complexity Vg Detail
    Function Base           : 1
    Loops for / foreach     : 1
    Conditional if / else if: 1
Complexity   Param 1       Return 2      Cyclo Vg 3       Total        6
LOC 8        eLOC 5        lLOC 3        Comment 0        Lines        8
Function Points         FP(LOC) 0.2     FP(eLOC) 0.1    FP(lLOC)     0.1

Function: InventoryManagementSystem.main
Parameters: (String[] args)
Complexity   Param 1       Return 1      Cyclo Vg 1       Total        3
LOC 10       eLOC 9        lLOC 8        Comment 0        Lines       13
Function Points         FP(LOC) 0.2     FP(eLOC) 0.2    FP(lLOC)     0.2

Function: Item.Item
Parameters: (String name, double price, int quantity)
Complexity   Param 3       Return 1      Cyclo Vg 1       Total        5
LOC 5        eLOC 4        lLOC 3        Comment 0        Lines        5
Function Points         FP(LOC) 0.1     FP(eLOC) 0.1    FP(lLOC)     0.1

Function: Item.getName
Parameters: ()
Complexity   Param 0       Return 1      Cyclo Vg 1       Total        2
LOC 3        eLOC 2        lLOC 1        Comment 0        Lines        3
Function Points         FP(LOC) 0.1     FP(eLOC) 0.0    FP(lLOC)     0.0

Function: Item.getPrice
Parameters: ()
Complexity   Param 0       Return 1      Cyclo Vg 1       Total        2
LOC 3        eLOC 2        lLOC 1        Comment 0        Lines        3
Function Points         FP(LOC) 0.1     FP(eLOC) 0.0    FP(lLOC)     0.0

Function: Item.getQuantity
Parameters: ()
Complexity   Param 0       Return 1      Cyclo Vg 1       Total        2
LOC 3        eLOC 2        lLOC 1        Comment 0        Lines        3
Function Points         FP(LOC) 0.1     FP(eLOC) 0.0    FP(lLOC)     0.0

Function: Item.setPrice
Parameters: (double newPrice)
Complexity   Param 1       Return 1      Cyclo Vg 1       Total        3
LOC 3        eLOC 2        lLOC 1        Comment 0        Lines        3
Function Points         FP(LOC) 0.1     FP(eLOC) 0.0    FP(lLOC)     0.0

Function: Item.removeQuantity
Parameters: (int amount)
Complexity   Param 1       Return 1      Cyclo Vg 1       Total        3
LOC 3        eLOC 2        lLOC 1        Comment 0        Lines        3
Function Points         FP(LOC) 0.1     FP(eLOC) 0.0    FP(lLOC)     0.0

Function: Item.toString
```

```
Parameters: ()
Complexity   Param 0       Return 1      Cyclo Vg 1       Total        2
LOC 3        eLOC 2        lLOC 1        Comment 0        Lines        3
Function Points         FP(LOC) 0.1     FP(eLOC) 0.0    FP(lLOC)     0.0

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                      ~~ Total File Summary ~~

LOC 106      eLOC 80       lLOC 55       Comment 3        Lines      131
Function Points         FP(LOC) 2.0     FP(eLOC) 1.5    FP(lLOC)     1.0
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                    ~~ File Functional Summary ~~

File Function Count....:         15
Total Function LOC.....:         95  Total Function Pts LOC :        2.0
Total Function eLOC....:         71  Total Function Pts eLOC:        1.5
Total Function lLOC....:         49  Total Function Pts lLOC:        1.0
Total Function Params .:         15  Total Function Return .:         17
Total Cyclo Complexity :         24  Total Function Complex.:         56
       ------     -----     -----     ------     ------     -----
Max Function LOC ......:         14  Average Function LOC ..:       6.33
Max Function eLOC .....:         11  Average Function eLOC .:       4.73
Max Function lLOC .....:          8  Average Function lLOC .:       3.27
       ------     -----     -----     ------     ------     -----
Max Function Parameters:          3  Avg Function Parameters:       1.00
Max Function Returns ..:          2  Avg Function Returns ..:       1.13
Max Interface Complex. :          5  Avg Interface Complex. :       2.13
Max Cyclomatic Complex.:          3  Avg Cyclomatic Complex.:       1.60
Max Total Complexity ..:          7  Avg Total Complexity ..:       3.73
```

End of File: D:\ASU\Classes\SPPQM CSE566\Assignments 566\A5\A5 Java files\InventoryManagementSystem.java

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                  ~~ Total Metrics For 1 Files ~~

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                     ~~ Total Project Summary ~~

LOC 106      eLOC 80       lLOC 55       Comment 3        Lines      131
Average per File, metric/1 files
LOC 106      eLOC 80       lLOC 55       Comment 3        Lines      131
Function Points         FP(LOC) 2.0     FP(eLOC) 1.5    FP(lLOC)     1.0

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                   ~~ Project Functional Metrics ~~

Function: InventoryManagementSystem.InventoryManagementSystem
Parameters: ()
Complexity   Param 0       Return 1      Cyclo Vg 1       Total        2
LOC 4        eLOC 3        lLOC 2        Comment 0        Lines        4
Function Points         FP(LOC) 0.1     FP(eLOC) 0.1    FP(lLOC)     0.0

Function: InventoryManagementSystem.addItem
Parameters: (String name, double price, int quantity)
Complexity   Param 3       Return 1      Cyclo Vg 2       Total        6
LOC 9        eLOC 7        lLOC 5        Comment 0        Lines       10
Function Points         FP(LOC) 0.2     FP(eLOC) 0.1    FP(lLOC)     0.1
```

Function: InventoryManagementSystem.removeItem
Parameters: (String name, int quantity)

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

Function: InventoryManagementSystem.updateItemPrice
Parameters: (String name, double newPrice)

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

Function: InventoryManagementSystem.searchItemByName
Parameters: (String name)

Complexity 4	Param 1	Return 1	Cyclo Vg 2	Total
LOC 8	eLOC 6	lLOC 4	Comment 0	Lines 9
Function Points	FP(LOC) 0.2	FP(eLOC) 0.1	FP(lLOC) 0.1	

Function: InventoryManagementSystem.displayInventory
Parameters: ()

Complexity 4	Param 0	Return 1	Cyclo Vg 3	Total
LOC 10	eLOC 7	lLOC 5	Comment 0	Lines 11
Function Points	FP(LOC) 0.2	FP(eLOC) 0.1	FP(lLOC) 0.1	

Function: InventoryManagementSystem.findItemByName
Parameters: (String name)

Complexity 6	Param 1	Return 2	Cyclo Vg 3	Total
LOC 8	eLOC 5	lLOC 3	Comment 0	Lines 8
Function Points	FP(LOC) 0.2	FP(eLOC) 0.1	FP(lLOC) 0.1	

Function: InventoryManagementSystem.main
Parameters: (String[] args)

Complexity 3	Param 1	Return 1	Cyclo Vg 1	Total
LOC 10	eLOC 9	lLOC 8	Comment 0	Lines 13
Function Points	FP(LOC) 0.2	FP(eLOC) 0.2	FP(lLOC) 0.2	

Function: Item.Item
Parameters: (String name, double price, int quantity)

Complexity 5	Param 3	Return 1	Cyclo Vg 1	Total
LOC 5	eLOC 4	lLOC 3	Comment 0	Lines 5
Function Points	FP(LOC) 0.1	FP(eLOC) 0.1	FP(lLOC) 0.1	

Function: Item.getName
Parameters: ()

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

Function: Item.getPrice
Parameters: ()

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

Function: Item.getQuantity
Parameters: ()

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

Function: Item.setPrice
Parameters: (double newPrice)

Complexity 3	Param 1	Return 1	Cyclo Vg 1	Total
LOC 3	eLOC 2	lLOC 1	Comment 0	Lines 3

```
Function Points         FP(LOC) 0.1     FP(eLOC) 0.0    FP(lLOC)     0.0

Function: Item.removeQuantity
Parameters: (int amount)
Complexity   Param 1       Return 1      Cyclo Vg 1       Total        3
LOC 3        eLOC 2        lLOC 1        Comment 0        Lines        3
Function Points         FP(LOC) 0.1     FP(eLOC) 0.0    FP(lLOC)     0.0

Function: Item.toString
Parameters: ()
Complexity   Param 0       Return 1      Cyclo Vg 1       Total        2
LOC 3        eLOC 2        lLOC 1        Comment 0        Lines        3
Function Points         FP(LOC) 0.1     FP(eLOC) 0.0    FP(lLOC)     0.0

Total: Functions
LOC 95       eLOC 71       lLOC 49       InCmp 32       CycloCmp      24

Function Points         FP(LOC) 1.8     FP(eLOC) 1.3    FP(lLOC)     0.9

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                  ~~ Project Functional Analysis ~~

Total Functions .......:         15  Total Physical Lines ..:        104
Total LOC .............:         95  Total Function Pts LOC :        1.8
Total eLOC ............:         71  Total Function Pts eLOC:        1.3
Total lLOC.............:         49  Total Function Pts lLOC:        0.9
Total Cyclomatic Comp. :         24  Total Interface Comp. .:         32
Total Parameters ......:         15  Total Return Points ...:         17
Total Comment Lines ...:          0  Total Blank Lines .....:          9
       ------     -----     -----     ------     ------     -----
Avg Physical Lines ....:       6.93
Avg LOC ...............:       6.33  Avg eLOC ..............:       4.73
Avg lLOC ..............:       3.27  Avg Cyclomatic Comp. ..:       1.60
Avg Interface Comp. ...:       2.13  Avg Parameters ........:       1.00
Avg Return Points .....:       1.13  Avg Comment Lines .....:       0.00
       ------     -----     -----     ------     ------     -----
Max LOC ...............:         14
Max eLOC ..............:         11  Max lLOC ..............:          8
Max Cyclomatic Comp. ..:          3  Max Interface Comp. ...:          4
Max Parameters ........:          3  Max Return Points .....:          2
Max Comment Lines .....:          0  Max Total Lines .......:         16
       ------     -----     -----     ------     ------     -----
Min LOC ...............:          3
Min eLOC ..............:          2  Min lLOC ..............:          1
Min Cyclomatic Comp. ..:          1  Min Interface Comp. ...:          1
Min Parameters ........:          0  Min Return Points .....:          1
Min Comment Lines .....:          0  Min Total Lines .......:          3

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                     ~~ Estimation Analysis ~~

                         Functional Basis

Total Function Count ..:         15
Total Function LOC ....:         95  Total Function eLOC ...:         71
Total Function lLOC ...:         49  Total Function Comments:          0
Total Func. Parameters :         15  Total Function Returns :         17
Total Cylco. Complexity:         24  Total Function Complex.:         56

                       LOC Estimation Factors

Lines of Code, LOC, per Function ........................:       6.33
Lines of Code, LOC, per Function Input Parameter ........:       6.33
```

```
Lines of Code, LOC, per Function Return State ..............:      5.59
LOC per Function Interface Complexity (Parameters + Return) :      2.97
LOC per Function Cyclomatic Complexity .....................:      3.96
LOC per Function Complexity (Cyclomatic+Interface Complex.) :      1.70
```

eLOC Estimation Factors

```
Effective Lines of Code, eLOC, per Function ................:      4.73
Effective Lines of Code, eLOC, per Function Input Parameter :      4.73
Effective Lines of Code, eLOC, per Function Return State ...:      4.18
eLOC per Function Interface Complexity (Parameters + Return):      2.22
eLOC per Function Cyclomatic Complexity ....................:      2.96
eLOC per Function Complexity (Cyclomatic+Interface Complex.):      1.27
```

lLOC Estimation Factors

```
Logical Lines of Code, lLOC, per Function ..................:      3.27
Logical Lines of Code, lLOC, per Function Input Parameter ..:      3.27
Logical Lines of Code, lLOC, per Function Return State .....:      2.88
llOC per Function Interface Complexity (Parameters + Return):      1.53
lLOC per Function Cyclomatic Complexity ....................:      2.04
lLOC per Function Complexity (Cyclomatic+Interface Complex.):      0.88
```

~~ File 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 *.jav*:          1
Other Source Files ....:          0
Total File Count ......:          1
```

Shareware evaluation licenses process only 20 files.
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Report Banner - Edit rsm.cfg File