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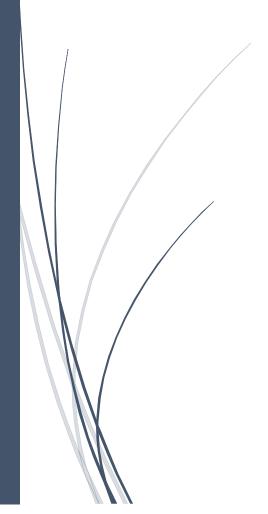
Assignment On

Software Metrics

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Project: IIT NSTU APP

Code Size:

Here,

NCLOC = non-commented line of code

CLOC = Commented line of code

n1 = Number of unique operators

n2 = Number of unique operands

N1 = Total occurrences of operators

N2 = Total occurrences of operands

Techniques

Total size

Density of program

• Halstead Approach

- o Length of Program N = N1 + N2 = 533+ 389 = 922
- Vocabulary of program $\mu = n1 + n2 = 21 + 101 = 122$
- Volume of Program V= $N \times log2\mu = 6390.13$
- o Difficulty: D= (n1/2) * (N2/n2) = (21/2) * (389/101) = 40.4
- o Effort: E= DV = 25816
- Time required to program: T= E/18 = 1434.2

Byte of code

o 23.8 MB storage used for program

Design Size:

Packages:

ТҮРЕ	MEASURE
Number of sub packages	4
Number of classes	32
Number of interfaces & abstract classes	1

Design patterns:

TYPE	MEA	SURE	
Number of different design patterns	1		
Number of interfaces & abstract classes	Strategy Pattern	Classes	6
		interfaces	1
		&	
		abstract	
		classes	
Number of design pattern realizations for	Strategy Pattern	1	
each pattern type			

Classes, interfaces, or abstract classes:

ТҮРЕ	MEASURE
Number of public methods	122
Number of attributes	145

Methods or operations:

ТҮРЕ	MEASURE
Number of parameters	94
Number of overloaded versions of a	6
method	

Weighted methods per class (WMC): 3.81 (if we consider complexity factor for every method is 1)