Academic Year – 2022-23

Class: F.Y.MCA   Semester: I   Subject: **Software Engineering Lab**

Subject In charge: Nikhita Mangaonkar   Course Code: MC503

ROLL NO. : 05   **BATCH**: A

NAME: Tanmay Prashant Chavan

EXPERIMENT NO: 09

EXPERIMENT TITLE: Prepare Mccall's quality factor table.

Objective:

1. Evaluating project based on Mccall's quality factors.

PRACTICAL EVALUATION:

PI1: On Time	PI2:Performance	PI3: Documentation	PI5 : Lab Ethics	Marks Per Experiment
0.5	3	1	0.5	5

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		Factors	Criteria		User				
					Excellent (5)	Verygood (4)	Good (3)	Average (2)	Poor (1)
1	**Product Revision**								
		1.1 **Maintainability**	**Extent to which a program satisfies its specifications and fulfills the user's mission objectives**	**This factor considers the efforts that will be needed by users and maintenance personnel to identify the reasons for software failures, to correct the failures, and to verify the success of the corrections.**	**5**				

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		1.2	Flexibility	The effort required to modify an operational program	such as changes and additions to the software in order to improve its service and to adapt it to changes in the firm's technical or commercial environment.	5			
		1.3	Testability	The effort required to test a program to ensure that it performs its intended function	It includes predefined intermediate results, log files, and also the automatic diagnostics performed by the software system prior to starting the system, to find out whether all components of the system are in working order and to obtain a report about the detected faults.			2	
	2	Product							

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Transition									
2.1	**Reusability**	**The extent to which a program can be reused in other application related to the packaging and scope of the functions that the program performs**	**This factor deals with the use of software modules originally designed for one project in a new software project currently being developed.**	**5**					
2.2	**Portability**	**The effort required to transfer the program from one hardware and/or software system environment to another**	**Portability requirements tend to the adaptation of a software system to other environments consisting of different hardware, different operating systems, and so forth. The software should be possible to continue using the same basic software in diverse situations.**	**5**					

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	2.3	Interoperability	The effort required to couple one system to another	Interoperability requirements focus on creating interfaces with other software systems or with other equipment firmware			**3**		
3	Product Operation								
	3.1	Correctness	These requirements deal with the correctness of the output of the software system.	float value to decimal	**5**				
	3.2	Reliability	Extent to which a program can be expected to perform its intended function with required precision	failure rate			**4**		

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	3.3	Usability	The effort required to learn , operate , prepare input for and interpret output of a program	staff resources needed to train a new employee and to operate the software system.	**5**				
	3.4	Integrity	The extent to which access to software or data by unauthorized person can be controlled	software system security, that is, to prevent access to unauthorized persons, also to distinguish between the group of people to be given read as well as write permit.					1
	3.5	Efficiency	The amount of computing resources and code required by a program to perform its function.	processing power,storage power,data communication	**5**				