**Mood Metrics Analysis**

MOOD stands for Matrices for Object Oriented Design.

Low Coupling factor contributes to better code readability and is a sign of a well-structured computer system.

MHF an AHF are measures of the use of the information-hiding concept supported by the encapsulation mechanism. A very low MHF value denotes implementation of insufficiently abstracted methods whereas a high MHF value denotes very little functionality, so a middle-ground is good. A high value of AHF is always a good sign, since attributes should remain hidden, in general.

Both AIF and MIF are measures of inheritance. This is a mechanism for expressing similarity among classes that allows for the portrayal of generalization and specialization relations.

Polymorphism means having the ability to take several forms. It is supposed to reduce complexity and to allow refinement of the class hierarchy without side effects. The downside is a harder debugging time.

For GanttProject, in my data\_collected\_metrics document, I’ve decided to highlight the factor’s value as green if the factor is between the acceptable threshold, as yellow If it’s between the tolerance range and as red if it’s not.

Table

Description automatically generated

Ref: <https://www.javatpoint.com/mood-factors-to-assess-a-java-program>

For our project, these were the results of Mood metrics.

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| --- | --- | --- | --- | --- | --- | --- |
| **MOOD Metrics** | AHF | AIF | CF | MHF | MIF | PF |
| ganttproject | 100% | 0% | 5.66% | 28.81% | 47.26% | 8.13% |

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