

Collaborative Discussion 1: Factors which Influence Reusability

Refer to the article by Padhy et al. (2018), specifically Table 1, where the authors present a list of factors which they consider influence the reusability of a piece of object-oriented software.

In this collaborative discussion, you are required to prioritise this list, presenting your argument for the priorities assigned.

Peer Feedback 1:

Hi Anda,

Your post was very informative.

The only thing that I believe this post could have needed were some case studies.

Peer Feedback 2:

Hi Anda,

Your detailed analysis and extensive reading on the topic of software reusability are highly commendable. Your explanation of the definitions of assets, factors, and metrics is crucial for a comprehensive understanding of software reusability.

Regarding your ranking of the Architecture-Driven Approach (ADP) as the first factor and my ranking of ADP as the second, with Requirements Analysis (RA) as the first, I recognize the significant importance of both factors for reusability. RA involves gathering project requirements at the beginning, laying the foundation for the project, while ADP is used to design the overall structure, ensuring it meets the project's conditions and capabilities.

From my perspective, both ADP and RA are crucial in their respective ways. RA sets the direction and goals of the project by identifying requirements, while ADP provides the means to translate those requirements into an architectural design that enables reusability. The close ranking of these factors reflects their interdependency and the critical role they play during project initiation.

Your insights further reinforce the significance of considering multiple factors and their synergistic relationship when aiming for reusable and efficient software development. Thank you for your valuable contribution to the field.