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**Summary Post**

by Oi Lam Siu - Wednesday, 24 April 2024, 8:51 AM

I am impressed with the thoughtful contributions and discussions from my peers regarding the factors influencing reusability. After thoroughly studying their posts and responses, I noticed that we have different interpretations of the topic “Factors which Influence Reusability”.

Some focus on external factors such as requirements, resources, and documentation, while others emphasize internal factors like the approach used, system architecture and the software's products or by-products. It's important to acknowledge that there are no absolute right or wrong answers in this context. This highlights the importance of critical thinking, which is a key aspect of post-graduate degree studies. Engaging in thoughtful analysis and considering multiple perspectives is an art that we develop throughout our academic journey.

Most of my peers (5 out of 8) highlighted the significance of the Architecture-Driven Approach (ADP) in their initial posts. They emphasized that a well-designed, modular, scalable, and maintainable architecture is crucial for enabling reusability through seamless integration and component reuse across projects. ADP provides a framework that promotes adaptability and ease of maintenance.

Interestingly, only one other peer and myself ranked Requirement Analysis (RA) as the top priority. In my initial post, I also prioritized RA as the most influential factor for reusability. I maintained this preference even after considering all the posts, as I firmly believe that good planning leads to good results. Just like our study process where we learned UML and began with a software design proposal with rationale, proper planning is essential.

From my point of view, RA is a critical process in software development that involves gathering project requirements. Its primary objective is to enable reusability by identifying cohesive requirements, recognizing patterns, and creating adaptable software systems. Through effective RA, user needs are thoroughly understood, facilitating early identification of reusability opportunities. This process holds significant importance during project initiation as it sets the foundation for creating software capable of meeting potential future growth, changes, and expansion requirements. RA serves as a crucial starting point in developing robust and reusable software systems.

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