Methods of Categorizing Architectural Technical Debt

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Abstract : The continuous long- and short-term delivery of value to customers continues to be the overarching objective of software organizations. Software engineering professionals and organizations face challenges in the maintenance and evolution of software as a result of architectural, technical debt. The issues of architectural, technical debt continue to receive a significant amount of attention because of its important impact on successful system implementation. The cost of doing nothing as far as architectural, technical debt is concerned can be significant both in financial terms and impacts on customers. Different architectural, technical debt issues exist, and this qualitative research design reviewed existing literature on the subject to identify and categorize them. This research intends to contribute to the existing bludgeoning body of knowledge on categorizations and descriptive model of technical debt related issues related to system architecture. The results identify the most common characteristics of architectural and technical debt categories. Raising awareness of the intricacies of architectural and technical debt helps technology stakeholders reduce negative consequences and increase the system success rate.