

The Impact of Agile Practices on Software Evolution in Startup Companies

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Abstract

Over the past few decades, the software development industry has embraced agile approaches. Intending to create high-quality software solutions that satisfy customer expectations, these methods place a strong emphasis on iterative development, adaptability, and customer collaboration. This study examines how Agile practices have affected the development of software in Startup companies. The objective is to obtain a thorough knowledge of the impact of Agile on startup companies. The research was conducted using several approaches including a thorough examination of the literature, an interview with a software engineer, and a survey given to a group of software developers. The results imply that Agile techniques have an advantageous effect on software quality, project effectiveness, and client satisfaction. The study highlights the benefits of Agile implementation and addresses challenges during adoption. In order to promote software evolution and improve project results, startups are recommended to adopt Agile practices. Future studies in this field could examine the effects of particular Agile practices on the evolution of software in various organizational contexts as well as the elements that contribute to the effective adoption of Agile methodology. Overall, this study adds to our understanding of Agile methods and how they affect the evolution of software in Startup companies, serving as a useful tool for businesses looking to enhance their software development procedures.

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