

# Efficient Approaches to Agile Cost Estimation in Software Industries: A Project-Based Case Study

## Authors:

Shariq Aziz Butt, Sanjay Misra, Diaz-Martinez Jorge Luis, De la Hoz-Franco Emiro

## DOI:

[https://doi.org/10.1007/978-3-030-69143-1\\_49](https://doi.org/10.1007/978-3-030-69143-1_49)

## Abstract:

Agile was invented to improve and overcome the traditional deficiencies of software development. At present, the agile model is used in software development very vastly due to its support to developers and clients. Agile methodology increases the interaction between the developer-client, and it makes software product defects free. The agile model is fast and becoming more popular because of its features and flexibility. The study shows that the agile software development model is an efficient and effective software development strategy that easily accommodates user changes, but it is not free from errors or shortcomings. The study shows that COCOMO and Planning Poker are famous cost estimation procedures, but are not ingenious for agile development. We conduct a study on real-time projects from multinational software industries using different estimation approaches to estimate the project's cost and time. We thoroughly explain these projects with the limitations of the techniques. The study has proven that the traditional and modern estimation approaches still have limitations to accurate estimation of projects.

## Keywords:

Agile, Agile project cost and time estimation, Estimation technique, Software