

**Incorporation of adaptive management strategies for agile project
success.**

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March 2020

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The dissertation was submitted to the Department of Computer Science and Engineering of the University of Moratuwa in partial fulfillment of the requirement for the Degree of Master of Business Administration in Information Technology.

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DECLARATION

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The above candidate has carried out research for the Masters thesis under my supervision.

ENG. DR. Indika Perera

Date

Signature of the Supervisor

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ABSTRACT

The software industry has become one of the fastest-growing industries worldwide over the past decades. Even though the Software development technologies have changed in a significant manner, but management methodologies have not changed significantly. This leads to a high percentage of unsuccessful software projects even with good financial support. Therefore, the Software industry requires new effective methods for managing software projects. The agile systems development approach is such a methodology used in the software industry in recent years.

Agile software development emphasizes the development of a software product in an agile and flexible environment, further it facilitates the project to be completed in a compressed time frame and in an efficient way. Agile software development refers to a group of methodologies based on iterative development where prerequisites and solutions evolve through the cooperation of different teams. (Leffingwell, 2007). Hence Management role and their adaptive management strategies and support processes play a major role in managing and achieving the success of agile-based projects in an organization. Thus identifying, improving, incorporating, and applying those adaptive management strategies of an organization will lead to the success of agile-based projects and ultimately lead the organization to success.

This research focused on identifying those adaptive management strategies which support agile project success. Hence a comprehensive literature review was carried out on the agile approach along with required adaptive management strategies for agile-based projects' success. A questionnaire-based online survey was done with IT professionals who work in agile-based IT firms to identify the adaptive management strategies which impact agile project success. The research findings revealed that the management strategies of Risk Management, Appropriate Resource assignment, and Adaptability for technological upgrades have a positive impact on the agile project success. This research brings out valuable results that can be incorporated in improving the performance of the software industry. Further, this research hints on other avenues that could be explored further as future research in the field of agile project success in terms of customer satisfaction and improving adaptive management strategies in an organization.

Keywords: Agile approach, project initiation, Resource Assignments, Communication, Risk Management, technology

ACKNOWLEDGEMENT

My gratitude which goes to many individuals who supported and facilitated me in carrying out this research is immense and cannot adequately be conveyed in a few words.

My personal thanks go to my supervisor, Dr. Indika Perera and all the staff members of the Department of Computer Science and Engineering of University of Moratuwa for their significant personal and academic contributions to my life. I thank them for the patience they have had with my limitations.

Finally, my overriding debt continues to my parents, who provided me with time, support and inspiration needed to prepare this report and my colleagues at the University, without whose help this effort would have not been a success.

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LIST OF ABBREVIATIONS

ASD - Agile software deployment

DAD - Disciplined Agile Delivery

SDLC - System Development Life Cycle

PMBOK - Project Management Body of Knowledge

IT - Information Technology