# **“Using Agile in Software Development: Improving Project Management Techniques”**

CMN 6005 – Foundations of Professional Communication

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February 10th, 2024

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| **S.NO** | **TABLE OF CONTENTS** | **PAGE NUMBERS** |
| **01** | **Introduction** | **3** |
| **02** | **Research Problem, Research Objective, and Question/s** | **3-4** |
| **03** | **Project Design** | **4-5** |
| **04** | **Implications** | **5** |
| **05** |  **References** | **5-6** |

## **Introduction**

Agile approaches, which encourage cooperation, flexibility, and adaptation, have completely changed the software development sector. Traditional project management techniques are frequently judged inadequate to successfully complete software projects in light of the quick advancement of technology and the growing needs of customers. A viable approach that emphasizes incremental delivery, ongoing feedback, and iterative development is agile project management. Unfortunately, a lot of firms find it difficult to successfully apply Agile methods because of a variety of issues, such as organizational hurdles, a lack of understanding, and resistance to change. The purpose of this paper is to discuss the reasons for implementing Agile in software development projects and to discuss the difficulties that businesses encounter when implementing Agile methodology.

## **Research Problem, Research Objective, and Question/s**

***Research Problem:*** A lot of companies have trouble applying Agile techniques in software development projects, which results in less-than-ideal project results and unhappy stakeholders.

***Research Objective:*** The main goal of this research project is to apply Agile approaches successfully to improve software development project management practices.

***Research Questions:***

* What are the main obstacles that businesses have to overcome to apply Agile approaches to software development projects?
* What are the essential success criteria for successfully implementing Agile project management techniques?
* What advantages and drawbacks do stakeholders see with Agile approaches in software development projects?
* What tactics may businesses use to get beyond people's aversion to change and create an environment that supports Agile adoption?
* What effects does implementing Agile have on project outcomes, project management techniques, and organizational performance?

## **Project Design**

***Setting/Place/Organization:*** The project will concentrate on introducing Agile techniques in the software development division of a medium-sized technology company that develops mobile and online applications. In an effort to increase customer satisfaction and project delivery efficiency, the company has indicated interest in switching from traditional project management techniques to agile methods.

***Population Sample:*** The population sample will consist of stakeholders participating in software development projects inside the firm, such as project managers, software developers, quality assurance engineers, and product owners. For further advice and insights, seek outside consultants and Agile coaches with experience implementing Agile.

***Methods of Data Collection:*** A blend of qualitative and quantitative approaches, such as questionnaires, focus groups, interviews, document analysis, and observation, will be used to gather data. Quantitative information on the opinions, attitudes, and experiences of stakeholders regarding the application of Agile will be gathered through surveys. Qualitative insights into the obstacles, determinants of success, and approaches for Agile adoption will be obtained through focus groups and interviews. Examining Agile frameworks, organizational policies pertaining to project management procedures, and project documentation will all be part of the document analysis process. Through observation, researchers will have a firsthand look at Agile ceremonies, team dynamics, and project procedures.

## **Implications**

This project's findings will offer important new perspectives on the possibilities and difficulties of implementing Agile in software development jobs. Enhancing project outcomes, raising stakeholder satisfaction, developing organizational agility, and strengthening project management techniques are among the consequences. Not only will the project benefit other firms starting similar Agile transformation journeys, but it will also add to the body of knowledge in Agile project management.

## **References**

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