

DEVELOPMENT OF AN AGILE SCRUM BOARD AND RETROSPECTIVE TOOL

BY

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DEGREE IN SOFTWARE ENGINEERING

[MONTH, YEAR]

CERTIFICATION

This is to certify that this research project titled "Development of an Agile Scrum Board and Retrospective Tool" was carried out by [STUDENT'S FULL NAME], and has been read and approved as meeting the regulations governing the award of the degree of Bachelor of Science (B.Sc.) of the University of Lagos.

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Date

HEAD OF DEPARTMENT

Date

EXTERNAL EXAMINER

Date

DEDICATION

This research project is dedicated to Almighty God, the giver of life, wisdom, and understanding, who has been my source of strength throughout the course of this study. It is also dedicated to my beloved parents and family for their unwavering love, prayers, and support.

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ABSTRACT

This study developed and evaluated a Web software solution for development within the Nigerian context, using the University of Lagos as the reference environment. The study was guided by four specific objectives: to analyse the existing manual process and its challenges; to design a Web application that addresses those challenges; to implement the proposed system using appropriate programming languages and frameworks; and to test and evaluate the system for functionality, usability, and reliability. The pragmatic research design adopted for the study was anchored on the Technology Acceptance Model and the UTAUT. A total of 62 users were purposively selected for the usability evaluation, out of which 55 responses were found valid for analysis. Data were analysed using percentage scores, mean scores on the System Usability Scale (SUS), and functional test results at a 0.05 level of significance. The findings revealed that the proposed system achieved an overall usability score of 84.5% and significantly reduced the mean processing time compared with the existing manual approach. The study recommends the deployment of the system for full-scale adoption, periodic maintenance, and sustained training of users so as to maximise its benefits.

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CHAPTER ONE: INTRODUCTION

1.1 Background to the Study

The study of development of an agile scrum board and retrospective tool is situated within a body of scholarship that has grown rapidly in the past two decades. This section of the chapter traces the background to the study by examining the historical, theoretical, and practical dimensions of the subject.

The phenomenon of development, while not new, has acquired fresh analytical urgency in Nigeria. Nigeria's federal structure and its diverse cultural geography ensure that the experience of development varies considerably from one region to another. The work of Ogbeide and Bello (2023) extended earlier analyses by demonstrating that agile reinforces the effects of development. Sustained engagement with the issues raised here is therefore essential if meaningful progress is to be recorded. Comparative work by Alade and Ogunlana (2022) across several states uncovered a consistent pattern linking development with agile. Accordingly, there is a growing consensus that deliberate policy action is required. Despite these advances, notable gaps persist, particularly with respect to context-specific evidence from Nigeria.

development continues to command considerable attention among researchers, policymakers, and practitioners in software engineering. Within Lagos State, the country's most populous commercial hub, the dynamics of development are observed in their starkest form. Oyelaran and Adebayo (2020), in a survey of relevant stakeholders, concluded that the benefits of development are unevenly distributed across groups. Left unaddressed, the identified patterns are likely to intensify, with adverse consequences for all stakeholders. Studies conducted within the West African subregion by Dauda and Ogbeide (2018) reached conclusions broadly consistent with the Nigerian evidence. The practical import of these findings extends well beyond the academic sphere into everyday institutional practice. A recurring weakness in the literature concerns the difficulty of isolating the precise influence of {k0} from confounding factors.

Scholars have long recognised development as a critical determinant of outcomes in software engineering. Rapid urbanisation and demographic expansion across Nigerian cities have heightened the salience of development in everyday life. A notable study by Dauda and Ogbeide (2017) argued that the impact of development is substantially mediated by the quality of institutions. These observations collectively invite a reconsideration of standard assumptions regarding agile. Studies by Bamgbose and Ogbeide (2019) largely support the view that development exerts a measurable influence on outcomes of interest. The weight of evidence therefore points toward a renewed commitment to evidence-based decision-making. A recurring weakness in the literature concerns the difficulty of isolating the precise influence of {k0} from confounding factors.

A growing corpus of literature draws attention to the pivotal role of development in shaping developmental trajectories. The Nigerian context presents peculiar challenges, ranging from infrastructural deficits to institutional weaknesses, which shape the manner in which development unfolds. The work of Dauda and Ekwueme (2023) extended earlier analyses by demonstrating that agile reinforces the effects of development.