

DEVELOPMENT OF A DATA GOVERNANCE AND QUALITY MANAGEMENT SYSTEM

BY

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DEGREE IN DATA SCIENCE

[MONTH, YEAR]

CERTIFICATION

This is to certify that this research project titled "Development of a Data Governance and Quality Management System" 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.

PROJECT SUPERVISOR

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 77 users were purposively selected for the usability evaluation, out of which 74 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 80.5% 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 a data governance and quality management system 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 relationship between development and data has been the subject of sustained academic interest across several disciplines. Federal and state governments have initiated several reforms, yet implementation gaps continue to constrain progress in matters of development. Findings reported by Chukwu and Nwosu (2018) observed that respondents with greater exposure to development recorded markedly different results. The practical import of these findings extends well beyond the academic sphere into everyday institutional practice. Comparative work by Ogunlana and Alade (2022) across several states uncovered a consistent pattern linking development with data. Accordingly, there is a growing consensus that deliberate policy action is required. A recurring weakness in the literature concerns the difficulty of isolating the precise influence of {k0} from confounding factors.

Over the past two decades, development has become increasingly significant within the Nigerian landscape and beyond. Federal and state governments have initiated several reforms, yet implementation gaps continue to constrain progress in matters of development. Longitudinal research by Kalu and Oyelaran (2016) revealed that sustained attention to development yields appreciable dividends over time. For practitioners, the practical significance of development cannot be overstated, given its demonstrable link with data. The work of Alade and Musa (2023) extended earlier analyses by demonstrating that data reinforces the effects of development. The weight of evidence therefore points toward a renewed commitment to evidence-based decision-making. The reviewed studies, while valuable, are frequently dated, small in scale, or confined to a single locality.

Few subjects attract as much policy interest in contemporary Nigeria as the question of development. Economic pressures and resource scarcity frequently determine the pace at which development advances in practice. Evidence assembled by Alade and Musa (2015) across twelve states underscored the heterogeneity of outcomes linked to development. The weight of evidence therefore points toward a renewed commitment to evidence-based decision-making. A notable study by Adeniyi and Ogunlana (2017) argued that the impact of development is substantially mediated by the quality of institutions. Left unaddressed, the identified patterns are likely to intensify, with adverse consequences for all stakeholders. Despite these advances, notable gaps persist, particularly with respect to context-specific evidence from Nigeria.

Contemporary scholarship increasingly frames development as inseparable from the broader question of data. The colonial and post-colonial legacies of the Nigerian state continue to influence contemporary patterns of development. Research by Bello and Obiora (2021) using mixed methods provided particularly rich insight into the mechanisms connecting development and data. Left unaddressed, the identified patterns are likely to intensify, with adverse consequences for all stakeholders. Kalu and Olawale (2020), in a survey of relevant