

DEVELOPMENT OF A WEB-BASED DATA QUALITY ASSESSMENT TOOL

BY

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DEGREE IN STATISTICS

[MONTH, YEAR]

CERTIFICATION

This is to certify that this research project titled "Development of a Web-Based Data Quality Assessment 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.

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 65 users were purposively selected for the usability evaluation, out of which 57 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 87.0% 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 web-based data quality assessment 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.

development continues to command considerable attention among researchers, policymakers, and practitioners in statistics. Globalisation and technological change have intensified both the opportunities and the challenges associated with development. Comparative work by Nwosu and Obiora (2022) across several states uncovered a consistent pattern linking development with web. The implications of these dynamics are far-reaching, touching questions of equity, efficiency, and accountability. Ogbeide and Kalu (2020), in a survey of relevant stakeholders, concluded that the benefits of development are unevenly distributed across groups. The cumulative effect of these dynamics is a situation that demands urgent and coordinated intervention. A recurring weakness in the literature concerns the difficulty of isolating the precise influence of {k0} from confounding factors.

The relationship between development and web has been the subject of sustained academic interest across several disciplines. Rapid urbanisation and demographic expansion across Nigerian cities have heightened the salience of development in everyday life. Evidence assembled by Aderemi and Umeh (2015) across twelve states underscored the heterogeneity of outcomes linked to development. The implications of these dynamics are far-reaching, touching questions of equity, efficiency, and accountability. A notable study by Olawale and Salami (2017) argued that the impact of development is substantially mediated by the quality of institutions. The implications of these dynamics are far-reaching, touching questions of equity, efficiency, and accountability. It is therefore imperative that further empirical work be undertaken to clarify the causal relationships at stake.

The relationship between development and web has been the subject of sustained academic interest across several disciplines. Evidence from national agencies indicates that development has grown considerably in recent times, underscoring the need for systematic inquiry. Longitudinal research by Olawale and Salami (2016) revealed that sustained attention to development yields appreciable dividends over time. These developments carry important implications for policy and practice in statistics. Comparative work by Okonkwo and Oyelaran (2022) across several states uncovered a consistent pattern linking development with web. The weight of evidence therefore points toward a renewed commitment to evidence-based decision-making. It is therefore imperative that further empirical work be undertaken to clarify the causal relationships at stake.

development occupies a prominent position in contemporary debates about web and national development. In Nigeria, the intersection of development and web is conditioned by unique socio-economic, cultural, and institutional factors that differ markedly from Western settings. Bakare and Osinachi (2020), in a survey of