

DEVELOPMENT OF A WEB-BASED DEPLOYMENT ENVIRONMENT AND CONFIGURATION MANAGER

BY

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DEGREE IN SOFTWARE ENGINEERING

[MONTH, YEAR]

CERTIFICATION

This is to certify that this research project titled "Development of a Web-Based Deployment Environment and Configuration Manager" 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 85.2% 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 deployment environment and configuration manager 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 occupies a prominent position in contemporary debates about web and national development. National policies and programmes have sought, with varying degrees of success, to respond to the realities of development and web. An examination by Chukwu and Famuyide (2019) attributed much of the observed variation in outcomes to institutional capacity and policy continuity. Such findings reinforce the argument that development deserves a place of priority on the development agenda. An examination by Bamgbose and Olawale (2019) attributed much of the observed variation in outcomes to institutional capacity and policy continuity. Sustained engagement with the issues raised here is therefore essential if meaningful progress is to be recorded. 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. Rapid urbanisation and demographic expansion across Nigerian cities have heightened the salience of development in everyday life. Studies conducted within the West African subregion by Famuyide and Olawale (2018) reached conclusions broadly consistent with the Nigerian evidence. Accordingly, there is a growing consensus that deliberate policy action is required. Studies by Ibrahim and Okonkwo (2019) largely support the view that development exerts a measurable influence on outcomes of interest. These observations collectively invite a reconsideration of standard assumptions regarding web. Nevertheless, the existing literature is not without its limitations, and several questions remain unresolved.

development, when examined in relation to web, reveals complex and often paradoxical dynamics. Auxiliary variables, including education, income, and location, further condition how development is experienced across communities. Research by Ibrahim and Okonkwo (2021) using mixed methods provided particularly rich insight into the mechanisms connecting development and web. The practical import of these findings extends well beyond the academic sphere into everyday institutional practice. A notable study by Adigun and Bello (2017) argued that the impact of development is substantially mediated by the quality of institutions. Such findings reinforce the argument that development deserves a place of priority on the development agenda. It is therefore imperative that further empirical work be undertaken to clarify the causal relationships at stake.

Over the past two decades, development has become increasingly significant within the Nigerian landscape and beyond. Within Lagos State, the country's most populous commercial hub, the dynamics of development are observed in their starkest form. The aggregate picture emerging from Adigun and Ekwueme (2023) points to a modest but consistent association between development and the outcomes of interest. Left unaddressed, the identified patterns are likely to intensify, with adverse consequences for all stakeholders. Evidence