

DEVELOPMENT OF AN ELECTRICAL EQUIPMENT INVENTORY SYSTEM

BY

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BEING A RESEARCH PROJECT SUBMITTED TO THE DEPARTMENT OF ELECTRICAL ENGINEERING,
FACULTY OF ENGINEERING, UNIVERSITY OF LAGOS, AKOKA, LAGOS STATE

IN PARTIAL FULFILMENT OF THE REQUIREMENTS FOR THE AWARD OF BACHELOR OF SCIENCE (B.Sc.)
DEGREE IN ELECTRICAL ENGINEERING

[MONTH, YEAR]

CERTIFICATION

This is to certify that this research project titled "Development of an Electrical Equipment Inventory 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.

ACKNOWLEDGEMENT

My profound gratitude goes to Almighty God for His grace, protection, and guidance throughout the duration of my study and the successful completion of this research project. I am deeply grateful to my supervisor, [SUPERVISOR'S NAME], for the patience, guidance, constructive criticism, and invaluable direction provided throughout the course of this research. I also wish to appreciate the Head of Department, the lecturers of the Department of Electrical Engineering, and my course mates for their support and friendship. My appreciation also goes to my parents and siblings for their unwavering support, both financial and emotional, throughout my academic journey.

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 Signal Processing Theory and the Power System Stability Theory. A total of 64 users were purposively selected for the usability evaluation, out of which 59 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 89.8% 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 electrical equipment inventory 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.

Few subjects attract as much policy interest in contemporary Nigeria as the question of development. National policies and programmes have sought, with varying degrees of success, to respond to the realities of development and electrical. Longitudinal research by Obiora and Adekunle (2016) revealed that sustained attention to development yields appreciable dividends over time. Left unaddressed, the identified patterns are likely to intensify, with adverse consequences for all stakeholders. Empirical evidence from Adigun and Alade (2021) suggests that positive developments in electrical are associated with improvements in development. For practitioners, the practical significance of development cannot be overstated, given its demonstrable link with electrical. Nevertheless, the existing literature is not without its limitations, and several questions remain unresolved.

Over the past two decades, development has become increasingly significant within the Nigerian landscape and beyond. National policies and programmes have sought, with varying degrees of success, to respond to the realities of development and electrical. Research by Bello and Nwosu (2021) using mixed methods provided particularly rich insight into the mechanisms connecting development and electrical. The practical import of these findings extends well beyond the academic sphere into everyday institutional practice. Evidence assembled by Osinachi and Famuyide (2015) across twelve states underscored the heterogeneity of outcomes linked to development. 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.

Over the past two decades, development has become increasingly significant within the Nigerian landscape and beyond. The socio-cultural diversity of Nigeria implies that responses to development must be differentiated rather than uniform. Comparative work by Osinachi and Famuyide (2022) across several states uncovered a consistent pattern linking development with electrical. Sustained engagement with the issues raised here is therefore essential if meaningful progress is to be recorded. Research by Adebayo and Bello (2021) using mixed methods provided particularly rich insight into the mechanisms connecting development and electrical. Left unaddressed, the identified patterns are likely to intensify, with adverse consequences for all stakeholders. The reviewed studies, while valuable, are frequently dated, small in scale, or confined to a single locality.

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. Evidence assembled by