

DEVELOPMENT OF AN ELECTRICAL WORKSHOP JOB CARD MANAGEMENT SYSTEM

BY

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[MONTH, YEAR]

CERTIFICATION

This is to certify that this research project titled "Development of an Electrical Workshop Job Card 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 Signal Processing Theory and the Power System Stability Theory. A total of 70 users were purposively selected for the usability evaluation, out of which 67 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 88.7% 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 workshop job card 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.

Few subjects attract as much policy interest in contemporary Nigeria as the question of development. Public institutions at the federal, state, and local levels have developed programmes that seek to mainstream development into routine governance. The aggregate picture emerging from Alade and Alade (2023) points to a modest but consistent association between development and the outcomes of interest. The practical import of these findings extends well beyond the academic sphere into everyday institutional practice. An examination by Osinachi and Bamgbose (2019) attributed much of the observed variation in outcomes to institutional capacity and policy continuity. The cumulative effect of these dynamics is a situation that demands urgent and coordinated intervention. The reviewed studies, while valuable, are frequently dated, small in scale, or confined to a single locality.

Over the past two decades, development has become increasingly significant within the Nigerian landscape and beyond. Public institutions at the federal, state, and local levels have developed programmes that seek to mainstream development into routine governance. Empirical evidence from Osinachi and Bello (2021) suggests that positive developments in electrical are associated with improvements in development. Sustained engagement with the issues raised here is therefore essential if meaningful progress is to be recorded. Longitudinal research by Adebayo and Bakare (2016) revealed that sustained attention to development yields appreciable dividends over time. These observations collectively invite a reconsideration of standard assumptions regarding electrical. Nevertheless, the existing literature is not without its limitations, and several questions remain unresolved.

development, when examined in relation to electrical, reveals complex and often paradoxical dynamics. Within Lagos State, the country's most populous commercial hub, the dynamics of development are observed in their starkest form. Longitudinal research by Adebayo and Bakare (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. Field evidence gathered by Adekunle and Nwosu (2016) suggested that stakeholder engagement materially improves the results achieved in matters of development. Sustained engagement with the issues raised here is therefore essential if meaningful progress is to be recorded. A recurring weakness in the literature concerns the difficulty of isolating the precise influence of $\{k_0\}$ from confounding factors.

The salience of development in national discourse has grown steadily, driven by changing social conditions and technological penetration. Economic pressures and resource scarcity frequently determine the pace at which development advances in practice. Longitudinal research by Osinachi and Ekwueme (2016) revealed