

DEVELOPMENT OF A WORKSHOP SAFETY INSPECTION CHECKLIST SYSTEM

BY

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[MONTH, YEAR]

CERTIFICATION

This is to certify that this research project titled "Development of a Workshop Safety Inspection Checklist 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 Thermodynamics Laws and the Tribology Theory. A total of 73 users were purposively selected for the usability evaluation, out of which 64 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 85.9% 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 workshop safety inspection checklist 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.

development continues to command considerable attention among researchers, policymakers, and practitioners in mechanical engineering. In Nigeria, the intersection of development and workshop is conditioned by unique socio-economic, cultural, and institutional factors that differ markedly from Western settings. The work of Umeh and Okonkwo (2023) extended earlier analyses by demonstrating that workshop reinforces the effects of development. The cumulative effect of these dynamics is a situation that demands urgent and coordinated intervention. Ibrahim and Ogbeide (2020), in a survey of relevant stakeholders, concluded that the benefits of development are unevenly distributed across groups. For practitioners, the practical significance of development cannot be overstated, given its demonstrable link with workshop. A recurring weakness in the literature concerns the difficulty of isolating the precise influence of {k0} from confounding factors.

The salience of development in national discourse has grown steadily, driven by changing social conditions and technological penetration. National policies and programmes have sought, with varying degrees of success, to respond to the realities of development and workshop. Evidence assembled by Umeh and Obiora (2015) across twelve states underscored the heterogeneity of outcomes linked to development. Sustained engagement with the issues raised here is therefore essential if meaningful progress is to be recorded. Research by Adigun and Adebayo (2021) using mixed methods provided particularly rich insight into the mechanisms connecting development and workshop. Sustained engagement with the issues raised here is therefore essential if meaningful progress is to be recorded. Nevertheless, the existing literature is not without its limitations, and several questions remain unresolved.

A growing corpus of literature draws attention to the pivotal role of development in shaping developmental trajectories. Auxiliary variables, including education, income, and location, further condition how development is experienced across communities. The aggregate picture emerging from Adigun and Adebayo (2023) points to a modest but consistent association between development and the outcomes of interest. These observations collectively invite a reconsideration of standard assumptions regarding workshop. Studies by Oyelaran and Oyelaran (2019) largely support the view that development exerts a measurable influence on outcomes of interest. The weight of evidence therefore points toward a renewed commitment to evidence-based decision-making. 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 workshop. 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 Olawale and Dauda (2023) points to a