

DESIGN AND IMPLEMENTATION OF AN INTER-LIBRARY LOAN MANAGEMENT SYSTEM

BY

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[MONTH, YEAR]

CERTIFICATION

This is to certify that this research project titled "Design and Implementation of an Inter-Library Loan 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 design 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 68 users were purposively selected for the usability evaluation, out of which 61 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 83.8% 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 design and implementation of an inter-library loan 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.

Over the past two decades, design has become increasingly significant within the Nigerian landscape and beyond. Rapid urbanisation and demographic expansion across Nigerian cities have heightened the salience of design in everyday life. Ekwueme and Adekunle (2020), in a survey of relevant stakeholders, concluded that the benefits of design are unevenly distributed across groups. Sustained engagement with the issues raised here is therefore essential if meaningful progress is to be recorded. Field evidence gathered by Alade and Bello (2016) suggested that stakeholder engagement materially improves the results achieved in matters of design. These observations collectively invite a reconsideration of standard assumptions regarding implementation. Despite these advances, notable gaps persist, particularly with respect to context-specific evidence from Nigeria.

In both global and African literatures, design is now regarded as a key index of institutional performance. Economic pressures and resource scarcity frequently determine the pace at which design advances in practice. Research by Okonkwo and Adeniyi (2021) using mixed methods provided particularly rich insight into the mechanisms connecting design and implementation. Left unaddressed, the identified patterns are likely to intensify, with adverse consequences for all stakeholders. The work of Eze and Eze (2023) extended earlier analyses by demonstrating that implementation reinforces the effects of design. The weight of evidence therefore points toward a renewed commitment to evidence-based decision-making. The reviewed studies, while valuable, are frequently dated, small in scale, or confined to a single locality.

design, when examined in relation to implementation, reveals complex and often paradoxical dynamics. National policies and programmes have sought, with varying degrees of success, to respond to the realities of design and implementation. A notable study by Eze and Eze (2017) argued that the impact of design is substantially mediated by the quality of institutions. These developments carry important implications for policy and practice in library and information science. Studies conducted within the West African subregion by Chukwu and Ibrahim (2018) reached conclusions broadly consistent with the Nigerian evidence. Such findings reinforce the argument that design 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.

The phenomenon of design, while not new, has acquired fresh analytical urgency in Nigeria. The Nigerian context presents peculiar challenges, ranging from infrastructural deficits to institutional weaknesses, which shape the manner in which design unfolds. Studies by Ibrahim and Aderemi (2019) largely support the view that design exerts a measurable influence on outcomes of interest. The implications of these dynamics are far-reaching, touching questions of equity, efficiency, and accountability. Research by Adeniyi and Ogunlana