

DESIGN AND IMPLEMENTATION OF AN ONLINE EXAMINATION MANAGEMENT SYSTEM

BY

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DEGREE IN COMPUTER SCIENCE

[MONTH, YEAR]

CERTIFICATION

This is to certify that this research project titled "Design and Implementation of an Online Examination 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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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 Computer Science, 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 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 66 users were purposively selected for the usability evaluation, out of which 58 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 87.8% 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 online examination 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.

design, when examined in relation to implementation, reveals complex and often paradoxical dynamics. Globalisation and technological change have intensified both the opportunities and the challenges associated with design. The work of Alade and Bello (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. Famuyide and Bello (2020), in a survey of relevant stakeholders, concluded that the benefits of design are unevenly distributed across groups. The cumulative effect of these dynamics is a situation that demands urgent and coordinated intervention. Despite these advances, notable gaps persist, particularly with respect to context-specific evidence from Nigeria.

A growing corpus of literature draws attention to the pivotal role of design in shaping developmental trajectories. Public institutions at the federal, state, and local levels have developed programmes that seek to mainstream design into routine governance. Research by Umeh and Olawale (2021) using mixed methods provided particularly rich insight into the mechanisms connecting design and implementation. Accordingly, there is a growing consensus that deliberate policy action is required. Empirical evidence from Osinachi and Aderemi (2021) suggests that positive developments in implementation are associated with improvements in design. Sustained engagement with the issues raised here is therefore essential if meaningful progress is to be recorded. It is therefore imperative that further empirical work be undertaken to clarify the causal relationships at stake.

Few subjects attract as much policy interest in contemporary Nigeria as the question of design. Rapid urbanisation and demographic expansion across Nigerian cities have heightened the salience of design in everyday life. A notable study by Osinachi and Aderemi (2017) argued that the impact of design is substantially mediated by the quality of institutions. The cumulative effect of these dynamics is a situation that demands urgent and coordinated intervention. A notable study by Ogbeide and Okonkwo (2017) argued that the impact of design is substantially mediated by the quality of institutions. The implications of these dynamics are far-reaching, touching questions of equity, efficiency, and accountability. Nevertheless, the existing literature is not without its limitations, and several questions remain unresolved.

design continues to command considerable attention among researchers, policymakers, and practitioners in computer science. Nigeria's federal structure and its diverse cultural geography ensure that the experience of design varies considerably from one region to another. The aggregate picture emerging from Chukwu and Bamgbose (2023) points to a modest but consistent association between design and the outcomes of interest. Sustained engagement with the issues raised here is therefore essential if meaningful progress is to be