

DESIGN OF A PROGRESSIVE WEB APPLICATION FOR DEPARTMENTAL NOTICES

BY

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[MONTH, YEAR]

CERTIFICATION

This is to certify that this research project titled "Design of a Progressive Web Application for Departmental Notices" 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 79 users were purposively selected for the usability evaluation, out of which 72 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 88.0% 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 of a progressive web application for departmental notices 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.

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. A notable study by Obiora and Eze (2017) argued that the impact of design is substantially mediated by the quality of institutions. Sustained engagement with the issues raised here is therefore essential if meaningful progress is to be recorded. Comparative work by Bakare and Nwosu (2022) across several states uncovered a consistent pattern linking design with progressive. The practical import of these findings extends well beyond the academic sphere into everyday institutional practice. It is therefore imperative that further empirical work be undertaken to clarify the causal relationships at stake.

In both global and African literatures, design is now regarded as a key index of institutional performance. Globalisation and technological change have intensified both the opportunities and the challenges associated with design. The aggregate picture emerging from Chukwu and Ogunlana (2023) points to a modest but consistent association between design and the outcomes of interest. For practitioners, the practical significance of design cannot be overstated, given its demonstrable link with progressive. A notable study by Chukwu and Adekunle (2017) argued that the impact of design is substantially mediated by the quality of institutions. For practitioners, the practical significance of design cannot be overstated, given its demonstrable link with progressive. Despite these advances, notable gaps persist, particularly with respect to context-specific evidence from Nigeria.

Scholars have long recognised design as a critical determinant of outcomes in information technology. Public institutions at the federal, state, and local levels have developed programmes that seek to mainstream design into routine governance. Studies conducted within the West African subregion by Chukwu and Adekunle (2018) reached conclusions broadly consistent with the Nigerian evidence. Left unaddressed, the identified patterns are likely to intensify, with adverse consequences for all stakeholders. Empirical evidence from Osinachi and Obiora (2021) suggests that positive developments in progressive are associated with improvements in design. Left unaddressed, the identified patterns are likely to intensify, with adverse consequences for all stakeholders. 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. The colonial and post-colonial legacies of the Nigerian state continue to influence contemporary patterns of design. Field evidence gathered by Adeniyi and Aderemi (2016) suggested that stakeholder engagement materially improves the results achieved in matters of design. Accordingly, there is a growing