

DEVELOPMENT OF A CAMPUS WI-FI ACCESS AND USAGE MANAGEMENT SYSTEM

BY

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DEGREE IN COMPUTER SCIENCE

[MONTH, YEAR]

CERTIFICATION

This is to certify that this research project titled "Development of a Campus Wi-Fi Access and Usage 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.

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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 Technology Acceptance Model and the UTAUT. A total of 70 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 80.3% 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 campus wi-fi access and usage 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.

The relationship between development and campus has been the subject of sustained academic interest across several disciplines. Economic pressures and resource scarcity frequently determine the pace at which development advances in practice. The work of Ibrahim and Ogunlana (2023) extended earlier analyses by demonstrating that campus reinforces the effects of development. Such findings reinforce the argument that development deserves a place of priority on the development agenda. Findings reported by Famuyide and Bamgbose (2018) observed that respondents with greater exposure to development recorded markedly different results. 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.

Debates on national transformation repeatedly return to the role of development and its attendant dynamics. The colonial and post-colonial legacies of the Nigerian state continue to influence contemporary patterns of development. The work of Osinachi and Ogunlana (2023) extended earlier analyses by demonstrating that campus reinforces the effects of development. Sustained engagement with the issues raised here is therefore essential if meaningful progress is to be recorded. A notable study by Bello and Umeh (2017) argued that the impact of development is substantially mediated by the quality of institutions. 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.

In recent years, development has emerged as a central theme in scholarly discourse on computer science. The colonial and post-colonial legacies of the Nigerian state continue to influence contemporary patterns of development. Longitudinal research by Bello and Umeh (2016) revealed that sustained attention to development yields appreciable dividends over time. Sustained engagement with the issues raised here is therefore essential if meaningful progress is to be recorded. Studies conducted within the West African subregion by Musa and Adigun (2018) reached conclusions broadly consistent with the Nigerian evidence. For practitioners, the practical significance of development cannot be overstated, given its demonstrable link with campus. It is therefore imperative that further empirical work be undertaken to clarify the causal relationships at stake.

Over the past two decades, development has become increasingly significant within the Nigerian landscape and beyond. National policies and programmes have sought, with varying degrees of success, to respond to the realities of development and campus. Empirical evidence from Ekwueme and Ogbeide (2021) suggests that positive developments in campus are associated with improvements in development. The practical import of