

DEVELOPMENT OF AN INTERACTIVE DATA STORYTELLING PLATFORM

BY

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DEGREE IN DATA SCIENCE

[MONTH, YEAR]

CERTIFICATION

This is to certify that this research project titled "Development of an Interactive Data Storytelling Platform" 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 Data 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 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 69 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 85.2% 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 an interactive data storytelling platform 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 salience of development in national discourse has grown steadily, driven by changing social conditions and technological penetration. The socio-cultural diversity of Nigeria implies that responses to development must be differentiated rather than uniform. A notable study by Adekunle and Ekwueme (2017) argued that the impact of development is substantially mediated by the quality of institutions. The weight of evidence therefore points toward a renewed commitment to evidence-based decision-making. A notable study by Umeh and Dauda (2017) argued that the impact of development is substantially mediated by the quality of institutions. These observations collectively invite a reconsideration of standard assumptions regarding interactive. The reviewed studies, while valuable, are frequently dated, small in scale, or confined to a single locality.

development continues to command considerable attention among researchers, policymakers, and practitioners in data science. Globalisation and technological change have intensified both the opportunities and the challenges associated with development. Evidence assembled by Osinachi and Eze (2015) across twelve states underscored the heterogeneity of outcomes linked to development. For practitioners, the practical significance of development cannot be overstated, given its demonstrable link with interactive. The work of Adekunle and Osinachi (2023) extended earlier analyses by demonstrating that interactive reinforces the effects of development. Such findings reinforce the argument that development deserves a place of priority on the development agenda. Despite these advances, notable gaps persist, particularly with respect to context-specific evidence from Nigeria.

The relationship between development and interactive has been the subject of sustained academic interest across several disciplines. The socio-cultural diversity of Nigeria implies that responses to development must be differentiated rather than uniform. Studies conducted within the West African subregion by Adekunle and Osinachi (2018) reached conclusions broadly consistent with the Nigerian evidence. For practitioners, the practical significance of development cannot be overstated, given its demonstrable link with interactive. Studies conducted within the West African subregion by Kalu and Adigun (2018) reached conclusions broadly consistent with the Nigerian evidence. These observations collectively invite a reconsideration of standard assumptions regarding interactive. 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 data science. Rapid urbanisation and demographic expansion across Nigerian cities have heightened the salience of development in everyday life. The aggregate picture emerging from Oyelaran and Ekwueme (2023) points to a modest but