**THEME: INTERNET TECHNOLOGIES AND WED DESIGN**

**TOPIC: THE WEBSITE FOR TRUTH PRIMARY SCHOOL, LIRA CITY EAST**

**BY**

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**A PROJECT REPORT SUBMITTED TO UGANDA VOCATIONAL TECHNICAL ASSESSMENT BOARD (UVTAB) FOR THE PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE AWARD OF NATIONAL DIPLOMA IN INFORMATION AND COMMUNICATION TECHNOLOGY**

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# **DECLARATION**

I, Alaja Daniel, do hereby declare that this project report titled Design and Development of a Dynamic and Responsive Website for Truth Primary School, Ngetta – Lira City East is the outcome of my own efforts and has not been previously submitted to any institution or university for any academic award. Any references made to work done by others have been duly acknowledged.

Signature:……………………………………………………………………………………

Date: ……………………………………………………………………………………………….

# **DEDICATION**

This report is wholeheartedly dedicated to my loving parents and guardians whose continuous support, love, and encouragement have fueled my academic journey. I also dedicate this work to all educators who inspire excellence in the field of ICT.

# ACKNOWLEDGEMENT

First and foremost, I thank the Almighty God for granting me strength, wisdom, and perseverance throughout the course of this project. I am especially grateful to my supervisor, Mr. **Ojok Benard**, for his professional guidance, constructive criticism, and encouragement. My appreciation also goes to **the management and staff of Truth Primary School** for their cooperation during data collection. I am indebted to **my classmates and friends** for their constant support and teamwork.

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# **1. EXECUTIVE SUMMARY**

This report outlines the process and outcomes of designing and developing a professional website for Truth Primary School located in Ngetta – Lira City East. The project addresses the need for improved communication, visibility, and service delivery through the adoption of digital technology. Employing best practices in modern web design, the website incorporates responsive features, a user-centric interface, and dynamic content modules. The report systematically presents the rationale, objectives, methods, tools, results, and future directions for maintaining and expanding the system.

# **2. INTRODUCTION**

Information and Communication Technology (ICT) has revolutionized how educational institutions manage and disseminate information. A website is no longer a luxury but a necessity for institutional growth and visibility. Truth Primary School, a growing institution in Lira City East, lacked a digital presence, which limited its ability to reach stakeholders effectively. This report details the comprehensive development of a functional, responsive, and scalable website aligned with the school’s mission.

# **3. PROBLEM STATEMENT**

The absence of a dedicated school website at Truth Primary School poses numerous challenges: poor communication between stakeholders, lack of institutional visibility, and difficulty accessing school-related information. In the current digital age, this void adversely affects parental engagement, partner collaboration, and public trust. The need to bridge this technological gap forms the crux of this project.

# **4. PROJECT OBJECTIVES**

## **4.1 General Objective**

To design and implement a responsive, secure, and user-friendly website that enhances the digital presence and stakeholder engagement of Truth Primary School.

## **4.2 Specific Objectives**

* To gather user requirements through interviews and document analysis.
* To design an intuitive user interface that reflects the school’s identity.
* To develop and deploy a fully functional website using modern web technologies.
* To ensure mobile responsiveness and cross-browser compatibility.
* To conduct testing and validation for quality assurance.
* To train school staff on how to manage and update content.

# **5. PROJECT JUSTIFICATION**

The justification for this project lies in the growing demand for digital platforms in education. A website enhances communication, improves transparency, and markets the institution to prospective students and partners. Furthermore, it aligns with Uganda’s national digital strategy and supports SDG 4 (Sustainable Development Goal 4): Quality Education.

# **6. SCOPE OF THE PROJECT**

The scope of the project included:

* Requirement gathering and feasibility study.
* Website planning, design, and prototyping.
* Development of the following sections: Home, About Us, Academics, Admissions, Gallery, News, and Contact Us.
* Integration with social media platforms.
* Mobile and desktop responsive design.
* Training for administrative staff on content management.

# **7. PROJECT DELIVERABLES**

* Website wireframes and design documents
* Fully functional and responsive website
* Training manual for website administrators
* Domain name and hosting setup
* User training session
* Maintenance plan document

# **8. LITERATURE REVIEW**

The importance of school websites in modern education systems has been widely documented. Rajasekharan and Nafala (2012) emphasized the use of ICT in promoting knowledge sharing, transparency, and operational efficiency. Lynch (2008) highlights the role of digital platforms in preserving institutional memory and improving academic accessibility. According to UNESCO (2022), digital transformation is critical to expanding education systems in the 21st century.

# **9. METHODOLOGY**

The methodology was grounded in the SDLC approach:

* Planning: Defined scope, goals, and stakeholders.
* Requirements Analysis: Conducted structured interviews with school staff and surveyed parents.
* Design: UI/UX prototypes created in Figma; architecture diagrams developed.
* Development: Website coded using HTML, CSS, JavaScript, PHP, and MySQL.
* Testing: Functionality, performance, and usability testing conducted.
* Deployment: Website hosted using a shared hosting plan with domain setup.
* Maintenance: Documentation provided; feedback loop established for updates.

# **10. TOOLS AND TECHNOLOGIES USED**

* Figma, Canva – UI/UX Design
* HTML5, CSS3, JavaScript – Frontend Development
* PHP, MySQL – Backend Development
* Bootstrap – Responsive Framework
* VS Code – IDE
* Git & GitHub – Version Control
* cPanel & InfinityFree – Hosting and Deployment

# **11. SYSTEM DESIGN**

The website followed a modular design:

* Frontend: User interface with menu navigation, information pages, and interactive features.
* Backend: Server-side scripts handling data processing, form submissions, and admin access.
* Database: MySQL schema for storing content and user queries.
* Security Features: Input validation, limited admin access, and SSL readiness.

# **12. IMPLEMENTATION**

Development took place in a local environment with periodic testing. The site was coded using best practices such as separation of concerns (HTML for structure, CSS for styling, JS for interactivity). Admin controls were provided for updating news, admissions, and gallery items. Static and dynamic content were used appropriately to ensure optimal performance.

# **13. TESTING AND EVALUATION**

* Testing was conducted in multiple stages:
* Unit Testing: Each component tested independently.
* Integration Testing: Ensured smooth interaction between frontend and backend.
* Usability Testing: Feedback from staff and selected parents.
* Performance Testing: Assessed load time and responsiveness across devices.

Results showed high usability scores, fast load times, and strong mobile responsiveness.

# **14. TARGET USERS**

* School Management and Administrators
* Teachers and Non-teaching Staff
* Parents and Guardians
* Prospective Students
* Community Stakeholders and Education Authorities

# **15. PROJECT TIMELINE**

|  |  |
| --- | --- |
| Week | Task |
| 1 | Project Planning and Requirement Analysis |
| 2 | Design Prototyping and Wireframing |
| 3 | Frontend Development |
| 4 | Backend Development and Integration |
| 5 | Content Entry and User Testing |
| 6 | Debugging and Optimization |
| 7 | Deployment and Training |

# **16. BUDGET ESTIMATE**

|  |  |
| --- | --- |
| Item | Cost (UGX) |
| Domain Registration | 120,000 |
| Hosting (1 Year) | 100,000 |
| Internet/Data Usage | 60,000 |
| Design Software Subscription | 40,000 |
| Printing and Documentation | 30,000 |
| Miscellaneous Expenses | 50,000 |
| Total Estimated Cost | 400,000 |

# **17. RISK MANAGEMENT**

|  |  |
| --- | --- |
| Risk | Mitigation Strategy |
| Server Downtime | Choose a reliable hosting provider |
| Data Loss | Perform regular backups |
| Unauthorized Access | Implement strong passwords, use SSL |
| Skill Gap in Staff | |Provide detailed training and manuals |

# **18. SUSTAINABILITY PLAN**

* Annual budget allocation for hosting and updates
* Train designated staff for routine content management
* Establish feedback system from users for improvements
* Periodic site reviews for compatibility and security updates

# **19. CONCLUSION**

The development of a website for Truth Primary School successfully addressed the institution’s need for a modern, reliable, and user-friendly digital platform. The project not only enhanced the visibility and accessibility of school-related information but also provided practical experience in applying ICT skills to real-world challenges. Recommendations for future work include integrating a student portal and exploring e-learning capabilities.

# **20. REFERENCES**

* Rajasekharan & Nafala (2012). ICT in Education and Knowledge Sharing.
* Lynch, C. (2008). The Impact of Digital Libraries on Education.
* W3Schools. (2024). Web Development Tutorials. https://www.w3schools.com
* Mozilla Developer Network. (2024). HTML/CSS/JavaScript Docs. https://developer.mozilla.org
* UNESCO. (2022). Transforming Education with Technology.

# 21. APPENDICES

* Appendix A: Screenshots of Website Pages
* Appendix B: User Training Manual
* Appendix C: System Architecture Diagrams
* Appendix D: Gantt Chart
* Appendix E: Sample Code Snippets
* Appendix F: User Feedback Form