Proposal for Redevelopment of the Website, Student Information Management System (SIMS), and Progressive Web App (PWA)

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Executive Summary

Starrich Consulting International is a company that provides technology solutions, including websites, management systems, and mobile apps. We create easy-to-use, secure, and reliable digital systems that help schools and organizations work better.

Kahama College of Health Sciences is a well-known school training health professionals. However, its current website and systems are outdated. Many tasks are done manually, and students cannot easily access their information on mobile devices.

We propose to build a new website, a Student Information Management System (SIMS), and a Progressive Web App (PWA). These tools will make it easier for students and staff to access information, improve communication, and manage academic tasks online.

This project will make the college more visible online, save time in administration, and provide a modern system that can grow with the school in the future.

Chapter I: Technical Proposal

1. Introduction

This proposal presents a comprehensive digital transformation plan for Kahama College of Health Sciences. The solution includes:

- A modern, mobile-friendly website

- A secure Student Information Management System (SIMS)

- A Progressive Web App (PWA) for mobile accessibility

- An SEO-optimized blog

The primary aim is to enhance the college's visibility, streamline academic operations, and improve user experience for students, staff, and the general public.

2. Project Objectives

- Develop a professional website aligned with the college's brand identity.

- Improve communication with students, staff, and the public.

- Simplify academic and administrative workflows through an integrated system.

- Enable mobile-first access to student and academic information.

- Increase online presence via an SEO-ready blog and content platform.

3. Project Components

A. Website Development

- Fully responsive (desktop, tablet, mobile).

- Branded design aligned with institutional identity.

- Key pages: **About, Programs, Admissions, News, Contact.**

- Online application & inquiry forms.

- Integrated Google Maps & social media links.

- CMS for content updates.

- SEO optimization.

B. Blog / News Page

- Platform for events, updates, student life, and health tips.

- Content categories to increase engagement.

- Boosts web traffic and improves rankings.

C. Student Information Management System (SIMS)

A role-based secure system with the following features:

- Student Profiles: Create and manage detailed student records, including personal information, enrollment history, and academic progress.

- Admissions: Streamline the application process, track incoming applications, and manage approvals efficiently.

- Course Registration: Allow students to enroll in classes easily while enabling staff to monitor class sizes and schedules.

- Grades & Results: Enter, track, and publish academic results securely, ensuring transparency and accuracy.

- Attendance Tracking: Monitor student attendance, generate reports, and identify patterns to support academic performance (optional).

- Transcripts: Automatically generate official academic transcripts for students.

- Fees & Payments: Track payments, generate invoices and receipts, and manage financial records seamlessly.

- Internal Messaging: Send announcements, reminders, and notifications directly to students and staff.

- Reports & Analytics: Generate academic and financial reports to support management decisions.

- Examination Management (Added Feature): Plan, schedule, and manage exams efficiently, including automated result integration.

- Document Management (Added Feature): Store and organize important academic documents securely for easy access.

- User Roles & Permissions (Added Feature): Assign roles (admin, staff, student) to control access and protect sensitive data.

- Notifications & Alerts: Automated notifications for deadlines, fees, exam schedules, and important updates from anywhere.

- Integration Capabilities: Easily connect with other systems such as email, messaging, and payment gateways.

D. Progressive Web App.

- Mobile app-like interface.

- Works offline with cached content.

- Push notifications for results, deadlines, and announcements.

- Installable on mobile and desktop without app stores.

- Optimized for low bandwidth environments.

4. Technology Stack

Component	Technology
Website	Tailwind based website
SIMS Backend	Laravel (PHP)
Database	MySQL
Frontend	Vue.js/HTML & Tailwind
PWA	Service Workers, Web Manifest
Hosting	
Security	SSL

5. Project Timeline

Phase	Duration
Planning & Requirements	1 week
Design Approval	1 week
Website Development	2 weeks
SIMS Development	3–4 weeks
PWA Integration	1 week
Testing & Training	1 week
Total Duration	**9–10 weeks**

6. Deliverables

- Fully functional, SEO-ready website: A modern website that works on all devices and is optimized to be easily found on search engines.

- Blog and news section: A platform to share college news, events, and updates, helping students, staff, and the public stay informed.

- Student Information Management System (SIMS): A secure and easy-to-use system for managing student records, admissions, course registration, grades, fees, and other academic tasks.

- Progressive Web App (PWA): A mobile-friendly app-like experience that allows students and staff to access information anytime, even offline, without installing from an app store.

- System documentation and training: Clear guides and training sessions to ensure staff and students can use the systems effectively.

- 4 months of technical support: Assistance to fix any issues, provide updates, and answer questions to ensure smooth operation after launch.

7. Expected Benefits

- Enhanced brand visibility: A modern website and active online presence will help the college stand out, attract new students, and strengthen its reputation locally and nationally.

- Faster access to academic services: Students and staff will be able to complete registrations, check results, and manage academic tasks online quickly and easily.

- Improved communication: Announcements, updates, and messages can be shared instantly between management, staff, and students, reducing delays and misunderstandings.

- Reliable and accurate data management: Centralized records for grades, attendance, and fees ensure that all information is up-to-date, secure, and easily accessible.

- Future-ready, scalable platform: The system is designed to grow with the college, supporting more students, programs, and digital services as needed.

- Better decision-making: Management will have easy access to reports and analytics, allowing them to make informed academic and financial decisions.

- Reduced administrative workload: Automating tasks like admissions, course registration, and fee management saves staff time and effort, letting them focus on important priorities.

- Mobile and offline access: Students and staff can access information anytime, anywhere, even with slow internet or offline, using the Progressive Web App.

- Secure and protected system: Role-based access and data encryption keep sensitive student and financial information safe from unauthorized access.

- Improved student experience: Quick access to results, notifications, and academic services makes students feel supported and engaged, improving overall satisfaction.

Chapter II: Financial Proposal

1. Total Project Cost

Item	Cost (TZS)
Website Design & Development	Included
SIMS Platform Development	Included
Blog / SEO Setup	Included
PWA Integration	Included
Hosting & Security Setup (1 Yr)	Included
Training & Documentation	Included
Support & Maintenance (12 Mo.)	Included
Total Cost	**TZS 2,500,000**

2. Payment Terms

- **50%** upon project commencement.
- **30%** after initial testing phase.
- **20%** upon final delivery & deployment.

Chapter III: Support, Maintenance & Disclaimer

Support and Maintenance

- 4 months of technical support (renewable): Ongoing assistance to address any issues, ensure smooth operation, and provide guidance to staff and students.

- Regular security updates and patches: Continuous updates to protect the system against vulnerabilities and ensure data safety.

- Automated and manual backups: Frequent backups to prevent data loss and enable quick recovery in case of unexpected events.

- Responsive email and phone support: Direct access to our support team for troubleshooting, guidance, and quick resolution of any technical problems.

- Optional extended support: After the initial 4 months, support can be extended to continue ensuring the system remains secure and fully operational.

Disclaimer

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