YOUTH FOR CHRIST/RWANDA

KIGALI CHRISTIAN SCHOOL

SECONDARY

COMPUTER LAB CONCEPT NOTE

In today's technology-driven society, equipping students with essential digital skills is crucial for their academic and professional success. The proposed computer lab at KIGALI CHRISTIAN SCHOOL/SECONDARY aims to provide 487 students with access to modern technology and resources, fostering digital literacy and enhancing their learning experiences.

Problem statement

1. **Limited Access to Technology:** Many students lack access to computers to complete assignments due to the number of computers that we currently have (30 clients) using an outdated system (N COMPUTING SYSTEM that supports windows 7 that is no longer receiving any system update). This problem limits students to conduct research, and develop essential digital skills.

2. **Inadequate Learning Resources:** Current classroom environments do not provide the necessary technological tools to support modern teaching methodologies and curriculum requirements, which increasingly rely on digital resources. This means the number of computers we have is not matching with the number of students that are accessing computer Lab. All 487 students of KCS-SECONDARY access computer lab of 30 clients. This insufficiency of computers limits a big number of students to not attend computer lab conveniently.

Impact of the Problem

- **Academic Performance:** Students struggle to keep up with assignments and research requirements, which negatively impacts their grades and overall learning experience.

- **Career Readiness:** Without proper digital skills, students are less prepared for the demands of the modern workforce, affecting their employability.

- **Engagement and Motivation:** The lack of engaging technological resources can lead to decreased student motivation and interest in learning.

Objectives

- **Enhance Digital Skills:** Provide students with the necessary skills to navigate digital tools and resources effectively.
- **Support Curriculum Integration:** Facilitate the incorporation of technology into various subjects, enhancing the learning process.
- **Promote Collaborative Learning:** Encourage teamwork and project-based learning through group activities in the lab.
- **Prepare for Future Careers:** Equip students with competencies required in the modern workforce.

Target Audience

- **Primary Users:** 487 students across various combinations including O'Level which are in Kigali Christian School-secondary
- **Secondary Users:** Staff for professional development and teaching enhancement.

Equipment and Resources

- **Computers:** 60 desktop computers (2 computer labs) to accommodate students effectively
- **Software:** Educational and productivity software (e.g., Microsoft Office, coding platforms, research tools).
- **Internet Access:** High-speed internet to support online research and learning.
- **Furniture:** Ergonomic desks and chairs to ensure a comfortable working environment.

Budget Estimate

1 **Computer (processor speed: dual core i5; 2.50 Ghz –Ram: 8GB-HDD: 1TB)** :

750, 000 Rwf

Total Estimated Cost: 45,000,000 Rwf for 60 computers

Conclusion

To address these critical issues, the establishment of a computer lab at KIGALI CHRISTIAN SCHOOL-SECONDARY is essential. This computer lab will provide students with the access and resources they need to succeed academically, fostering a more equitable learning environment and better preparing them for the future.

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