

IRGF Final Report

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Project Title: Development of an E-Health System for Improving Health-Care Access in Developing Countries

1.1 Project Summary

Developing countries face critical healthcare barriers: operational inefficiencies from manual systems, cost-driven self-medication, and pandemic-induced system overload. Our study answers this by developing a phased, mobile-based e-health platform to manage records, appointments, and pharmaceuticals.

1.2 Student involvement

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1.3 Dissemination and Knowledge Mobilization

We presented our results at the One Health Conference in China in August 2024

1.4 Project Outcomes and Impacts

This phase of the project has been successfully completed, achieving its core objectives for initial development and validation. Key accomplishments include the successful development and integration of the foundational software components, namely the Patient Record Management system and the eMedSocial platform. The application underwent real-world testing in Uganda, demonstrating its practical viability. Furthermore, the project's findings and system architecture were disseminated to the international scientific community through a presentation at the One Health Conference (Elsevier) in China. This completed phase delivers a robust and scalable platform with an ERP-style architecture, purposefully designed for future expansion. It establishes a strong foundation for the subsequent integration of additional subsystems, including Patient Support, Health Insurance, and Pharmacy modules, pending further investment for full-scale deployment.