HealthConnect EARIST: An Integrated Web-Based System for Digital Clinic Scheduling and Patient Record Management

Efficient healthcare services within educational institutions require organized scheduling and reliable management of patient information. However, manual and paper-based clinic processes may result in time-consuming record retrieval, scheduling difficulties, and challenges in maintaining accurate and accessible patient information. This study presents **HealthConnect EARIST**, an integrated web-based system developed to support digital clinic scheduling and patient record management at the Eulogio "Amang" Rodriguez Institute of Science and Technology (EARIST). Specifically, the study aimed to develop a centralized platform for patient registration, appointment scheduling, consultation documentation, and electronic patient record management. A developmental research approach was employed following the Software Development Life Cycle (SDLC), covering requirements analysis, system design, development, implementation, and testing. Functional testing was conducted to verify the operation of the system's major features based on specified requirements. Findings showed that HealthConnect EARIST successfully performed its core functions, including patient registration, appointment creation and monitoring, consultation recording, and searching, updating, and retrieval of patient information. The integration of these functions provided a more organized and centralized approach to managing clinic transactions and records compared with separate manual processes. The study concludes that HealthConnect EARIST can support the digitalization of institutional clinic operations by improving the management and accessibility of clinic information. Future enhancements may include automated notifications, health data analytics, and integration with other institutional information systems.

Keywords: Web-Based Clinic Management, Digital Clinic Scheduling, Patient Record Management, Health Information System, HealthConnect EARIST