KENNESAW STATE UNIVERSITY
COLES COLLEGE OF BUSINESS
Master of Science in Healthcare Management and Informatics

HMI Hackathon – Coding Today for the Health of Tomorrow

Building Pathways to Health Security and Social Mobility

Project Tracks & Descriptions

Teams may select one of the following tracks. All solutions must clearly define a problem, present a practical and realistic solution, and demonstrate a working prototype or mockup.

Track 1: Patient Experience & Access in Emerging Health Systems

Focus: Improve how patients access care and navigate healthcare systems, particularly in resource-constrained or developing environments.

Description:

This track encourages teams to design tools that simplify the patient journey, reduce barriers to care, and enhance engagement in settings where infrastructure, workforce, or digital access may be limited. Solutions may address appointment access, care navigation, rural health outreach, digital literacy, or communication challenges common in developing health systems such as Zambia.

Example ideas:

- Mobile-first appointment and referral assistant
- Low-bandwidth intake or triage helper
- Community health worker support tool
- Multilingual patient education platform

Track 2: Health Operations & Resource Optimization in Developing Contexts

Focus: Improve system-level performance and resource management, particularly in emerging health systems.

Description:

Teams should design solutions that improve efficiency in environments with limited infrastructure, workforce shortages, or supply chain instability. Projects may focus on staffing coordination, rural clinic logistics, patient flow optimization, or analytics tools that support ministries of health or NGOs.

Example ideas:

- Rural clinic resource dashboard
- Bed or facility capacity visualization tool
- Vaccine or medication supply tracking concept
- Workforce allocation prototype

Track 3: Open Innovation – Student Choice

Focus: Students may propose any innovative healthcare-related solution.

Description: This track allows full creative freedom. Teams may develop any healthcare or health-technology solution that aligns with the Hackathon theme. Projects must demonstrate clear problem identification, practical application, and a working prototype or mockup.

Requirements:

- Clear problem definition
- Realistic and feasible approach
- Working prototype or mockup
- Clear healthcare or health-technology alignment