

FACULTY OF COMPUTING AND INFORMATION MANAGEMENT

BACHELOR OF INFORMATION TECHNOLOGY

**LIVESTOCARE HUB SYSTEM**

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# Project Ideation

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## Livestock Monitoring system

# In Kenya famers are facing several problems such

# Limited Access to Veterinary Services

# (Many rural areas in Kenya lack easy access to veterinary services, leading to delayed interventions and increased livestock mortality rates.)

# Theft

# (Livestock theft is a significant concern for Kenyan farmers, resulting in financial losses and livelihood insecurity.)

# Disease

# (Disease outbreaks pose a serious threat to livestock health and productivity in Kenya)

# Inefficient Resource Management

# (Inefficient resource management, including feed, water, and medication, contributes to increased production costs and reduced profitability for Kenyan farmers.)

# Summary

The Livestock Monitoring System aims to revolutionize how Kenyan farmers manage their livestock by providing practical solutions to this challenges. With real-time monitoring capabilities, farmers can keep a close eye on the health and location of their animals, enabling them to detect early signs of illness and promptly seek veterinary assistance, even in remote areas with limited access to services. By integrating GPS tracking, the system offers added security against theft, allowing farmers to track the whereabouts of their livestock and deter potential thieves. Additionally, insights provided by the system into livestock behavior and resource usage empower farmers to make informed decisions, optimizing feed, water, and medication allocation to improve overall farm productivity. Through these features, the Livestock Monitoring System not only enhances livestock health and security but also promotes sustainable farming practices and resilience in the face of environmental