

SMART CATTLE MANAGEMENT SYSTEM

Abstract:

The Smart Cattle Management System is an innovative solution designed to enhance the efficiency and well-being of cattle farming operations. Leveraging advanced technologies such as Arduino boards, GPS modules, automatic doors, and fire alarms, the system provides comprehensive monitoring and automation for improved cattle management.

HARDWARE REQUIREMENTS

- **Arduino Board**
- **GPS Module**
- **Sensors** [Motion Sensors PIR),
RFID (Radio-Frequency
Identification)]
- **Actuators** [servo motors, DC
motors]
- **Fire Alarm System Components**
(Optional)

SOFTWARE REQUIREMENTS

- **Arduino IDE**
- **GPS Module Libraries**
- **Programming Language**
[Embedded Python]

MODULES

- **GPS Module**
- **Environmental Monitoring
Module**
- **Automatic Doors Module**
- **Fire Alarm Module (Optional)**