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Abstract

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Abstract:
Animals play an important role in ecology. Their existence is critical to the ecosystem's equilibrium. However, an increasing number of wildlife are becoming endangered and on the edge of extinction. As a result, humans designated forest areas (sanctuaries and national parks) as safe havens for these creatures to avoid extinction. However, numerous animals resulted in the death of poor health and a lack of attention. Wildlife location tracking combined with a monitoring system is utilized to avoid such tragedies. This technology tracks the animal's health using a heart rate sensor, and by using the Global Positioning System, we are able to get the specific coordinates of each individual animal (GPS). This project's purpose is to determine the movement of wildlife species in national parks as well as in reserved forests. This setup would comprise a temperature sensor that can detect the heat of each animal, in addition to a heart rate sensor that may scale the animal's heart rate in BPM. A temperature sensor is used to monitor this.. It keeps track of the animal's body temperature in real-time. A communication would be sent to the access point if the temperature varies. Likewise, any animal would have a number of heartbeats per unit of time, therefore the proposed

☰ **Contents**

I. Introduction(heading 1)

All living thing on earth plays an equal role in the ecosystem. Unfortunately, the survival of wild creatures is currently under jeopardy. Wildlife as well as forest authorities are presently dealing with the issue of animals moving from woodland to residential areas. Physical injury or sickness may result in the destruction of animals in the zoo if an accident occurs in the zoo. In such circumstances, we are unable to pinpoint the specific location of the animal in such a broad area. Animal tracking systems are used to minimize complications such as locating an animal's specific geographical location in the jungle, national park, or wildlife reserve. This research indicates a method for tracking and alerting wildlife animals for their protection. It solves the problem by combining Sensing Devices (WSN) and Global Positioning System (GPS) technologies.

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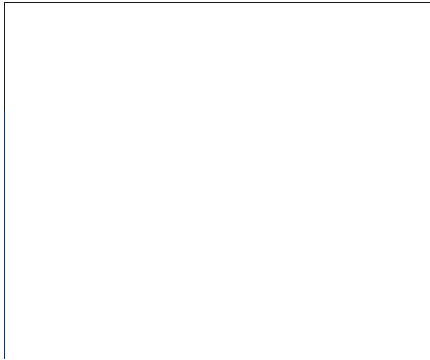
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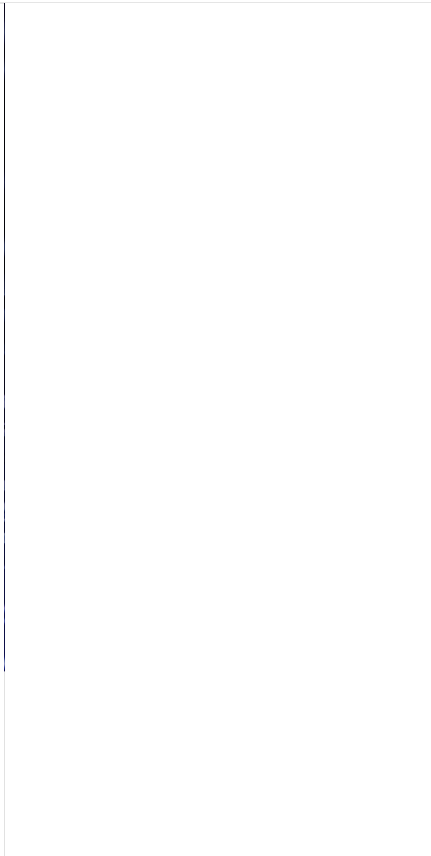
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