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(57) Abstract :
 IoT-Based Real-Time Location Sharing and Activity Tracking System for Social Media Networks ABSTRACT: Currently, there is a significant expansion in the use of Internet of Things (IoT) applications in our daily routines. The widespread use of smart devices, sensor technologies, and the Internet enables seamless connectivity between the digital and physical realms. This facilitates distributed data gathering, communication, and dynamic processing of many applications. Monitoring and tracking things in real-time within the IoT system is a difficult operation due to the unique qualities it possesses, such as scalability, mobility, and the restricted resources of the devices. This paper focuses on the crucial problem of real-time tracking of objects in the Internet of Things (IoT). A cost-effective wearable gadget with internet-of-things capabilities has been created to track the whereabouts and gather information. Its purpose is to safeguard youngsters when their parents are absent, whether due to work or travel overseas. The primary objective of this system is to guarantee the protection of individuals, particularly children, and effectively commence search and rescue operations during emergency situations. The device will alert parents about the state of their children's surroundings, particularly inside the house. It will also tell parents if the youngsters venture outside the designated area, using the smartphone application that has been built. The system utilises a microcomputer known as Beagle-Bone Black as its central processing unit, alongside GPS and LTE technology for wireless communication. Future enhancements primarily centre around minimising the device's size and power usage, enhancing the communication module, and optimising the microcomputer's specifications.

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