

ABSTRACT:

This project introduces an innovative student attendance register system, harnessing the power of Internet of Things (IoT) technology. The primary objective is to enhance the traditional attendance tracking process using Radio-Frequency Identification (RFID) sensors. Students are issued RFID cards, and when within the sensor's range, their unique identifiers are promptly detected. This information is then seamlessly stored in a centralized database, providing a real-time and accurate attendance record.

The integration of IoT enables remote monitoring and management of attendance data. The system dynamically updates an Excel sheet with the collected information, offering a user-friendly and organized representation of attendance records. This not only simplifies the attendance tracking process but also reduces the likelihood of errors associated with manual methods.

Furthermore, the system promotes efficient attendance management, allowing educators and administrators instant access to attendance data. The RFID technology ensures a secure and reliable identification process, preventing unauthorized attendance recording.

In summary, this project leverages the synergy of IoT and RFID technology to create an advanced student attendance register. By seamlessly connecting sensors, database management, and Excel reporting, the system provides an automated, accurate and efficient solution for educational institutions seeking to modernize their attendance tracking processes.

Flow Chart:

