AttendDance: Improving Attendance Using NFC Tags Embedded in Student IDs

ABSTRACT

Attendance tracking in large lecture halls presents significant challenges, with traditional methods often consuming valuable class time and leading to inaccuracies. This can have adverse effects on students' financial aid and/or hinder professors' ability to cover course content effectively. Current methods, such as manual calling or QR code scanning, are impractical in such settings.

 Near Field Communication (NFC) technology, already embedded in student IDs, is a promising solution. Student IDs, essential for various campus amenities, ensure widespread adoption and accessibility. Because of how essential it is for students to have their own IDs, concerns about attendance fabrication are mitigated

I present a prototype application where students can effortlessly tap their IDs onto a device for attendance. On the first day of the semester, students input their information, simplifying subsequent attendance tracking with a seamless tap-and-go approach. Professors can access attendance data instantly at the end of each class, streamlining administrative processes and enhancing overall classroom efficiency.