**Chapter II**

**Review of Related Literature**

This chapter presents a summary of related literature and studies that highlight the importance of the study. Furthermore, it provides an analysis to deepen the understanding of its significance and potential impact.

**Improving Student Attendance through SMS Notifications** An innovative and upgraded system of attendance tracking through QR code and SMS technology in monitoring students' attendance.

Monitoring of attendance is very important in supporting the retention of students and academic performance. It identifies early possible issues so that schools can implement interventions and assistance on time.  
 However, according to (Rivera & Lagarteja, n.d.) the system is compromised by factors such as reliance on the coverage of mobile networks, some hardware requirements, and limited access by parents who are not constantly cell-covered or SMS-subscribed. Security issues could also be raised, exposing the system to possible threats.  
 To address these challenges, improvement can be made in the inclusion of offline storage for messages, adding email and application notifications, improvement in security options, offering the ability to access multiple SMS gateways, making parents choose preferred notification settings, improving power use, and implementing real-time tracing of unsuccessful delivery messages (Mohd Ekhsan et al., 2018).

According to (Kundu et al., 2019), the significance of this system is that it gives real-time and reliable communication between schools, students, and parents.   
 This technology enhances parental involvement, minimizes communication delays, conserves paper, and increases overall school notification effectiveness. It also ensures availability in areas with weak internet connectivity by delivering messages to the targeted recipients (Lumauag, 2016);(Binti Bakhri et al., 2020).

**Reference**

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