**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.

**The Importance and Impact of Attendance Management Systems**

Attendance management is important for schools to monitor students' attendance and compliance. (Albahrani et al., 2022) highlight that traditional attendance methods Taking attendance by hand is resource-intensive, prone to mistakes, and open to dishonesty.  
 (Sonawane & Singh, 2023) conclude that attendance management is extremely essential in schools as well as institutions, thus helping monitor and document the attendance register accurately.  
 Although it is beneficial, automated attendance management also faces some problems.  
(Jatana, n.d.) lists manual inefficiencies in monitoring, invasion of privacy, and complexity in enforcement as primary concerns. The transition towards automated systems creates new problems in the form of change resistance, security threats for data, and integration issues. It is vital to overcome these challenges to enable smooth and effective implementation.  
 According to (Muir, 2009), such challenges can be by setting attendance requirements, improving teaching methods, integrating tracking systems, ensuring data security, and gathering student feedback. These strategies enhance efficiency, reduce resistance, and improve attendance management.

This study is significant in improving attendance tracking through the encouragement of efficiency, precision, and security within educational institutions. (Jacksi & Hasan Mohammed, 2018) note that automatic attendance systems remove administrative workload, prevent false attendance, and guarantee real-time surveillance. Utilizing web-based and biometric technologies, institutions can simplify attendance processes, provide compliance, and increase student responsibility, leading to improved academic performance and institution management.

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