



**DEVELOPMENT OF FACIAL RECOGNITION FOR ATTENDANCE
SYSTEM AT BALAYAN SENIOR HIGH SCHOOL**

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ABSTRACT

In the contemporary landscape of technological advancements, facial recognition technology stands out as a multifaceted instrument with a myriad of applications, notably in the realm of security monitoring. This sophisticated form of biometric authentication, which operates in tandem with other methods such as fingerprint and iris or retina scanning, offers a unique blend of contactless operation and non-intrusive interaction. Although it may not boast the highest accuracy rates when compared to its counterparts, its ease of use without physical contact gives it a distinct edge. The focus of this research is the development of a facial recognition-based attendance system using certain geometric threads from the users face that let the system know who it is, designed to streamline the attendance process and introduce a level of convenience hitherto unattainable with traditional methods. Such conventional attendance mechanisms are often laborious and time-intensive, detracting from the educational experience for both educators

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and learners. By employing various materials such as PHP programming language, javascripts and more, renowned for its robustness and versatility, this system promises a seamless integration into the educational framework. The operational principle of the system hinges on the preliminary step of uploading student photographs into its database, thereby enabling the subsequent identification process. Upon successful detection of a student's visage, the system activates its facial recognition protocols. As students present themselves for attendance, the system not only recognizes them but also displays their pertinent information on the user interface, simultaneously recording their presence. This innovative approach not only augments the efficiency of the attendance-taking process but also encapsulates the essence of modern educational tools, fostering a more interactive and technologically enriched learning environment.

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