

## ABSTRACT

The Academic Performance Analysis is an innovative web-based application designed to revolutionize the generation of performance reports for students and faculty members within educational institutions. Traditionally, this process has been difficult and time consuming process in most colleges. However, this project aims to address these challenges head-on by introducing a streamlined approach to report generation, ultimately saving significant time and effort for educational institutions. The proposed application surpasses the limitations of the existing system by catering to the needs of both students and faculty. It offers comprehensive solutions, allowing users to access valuable insights such as subject-specific grades, performance trends, and semester-wise progress effortlessly. Department heads and principals can visually track pass rates using charts and graphs, examining subject distributions, section performance, and individual student outcomes. This holistic view facilitates informed decision-making and proactive intervention strategies. The primary technology employed in this system is PDOs, a reliable framework for database access in PHP. Additionally, to address security concerns, the system utilizes the BCrypt algorithm, ensuring passwords are securely hashed and stored.