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Development of Student Achievement Tracker System Using Custom-Tkinter

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Abstract: This paper presents the development of a Student Achievement Tracker System (SATS), a digital platform aimed at systematically recording, managing, and showcasing students' academic and extracurricular accomplishments. Designed with Python's Tkinter library, SATS offers a user-friendly, accessible interface that enables students to register, log in, and build personalized portfolios that highlight achievements in various domains. Through structured resume- building features, SAT allows students to organize their profiles for academic and career preparation, creating a centralized, digital repository for their accomplishments. The system's architecture is engineered to prioritize simplicity and accessibility, enhanced with CustomTkinter for improved aesthetics and interactivity, making it suitable for users with varying levels of technical expertise. Core functionalities include secure login, efficient data management, and an intuitive, streamlined interface. This paper explores these functionalities in depth, alongside the challenges encountered in development and the strategies adopted to address them. Beyond functionality, SATS integrates principles of software engineering and user-centred design to enhance usability and engagement, underscoring the importance of intuitive design in educational tools. The system serves not only individual students but also educators and institutions, providing a valuable resource for tracking, promoting, and celebrating student achievements. Through this project, we demonstrate SATS's potential to adapt to diverse educational needs, positioning it as an impactful tool for academic environments. This research emphasizes the practical significance of SATS, paving the way for future enhancements that align with evolving educational demands and digital learning trends.

Keywords: Python, CustomTkinter, Achievement Tracker, Development, Tkinter Library



