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Preface

Pioneering Educational Perspectives: Series 2025 is a collection of thought-provoking insights and research contributions exploring contemporary educational trends and practices. This eBook presents a diverse range of perspectives on innovative teaching methodologies, digital learning strategies, and transformative approaches in education. Designed to serve as a resource for educators, researchers, and practitioners, it aims to inspire meaningful discussions and advancements in the field. Through carefully curated chapters, this publication offers fresh ideas and practical solutions to enhance learning experiences in an ever-evolving educational landscape.

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ELYWARE: AN APP DESIGNED TO STREAMLINE STUDENT AND LECTURER MANAGEMENT

Sri Raj Jegan, Fitri Hazim Bin Bahrin, Nezsarn Sivanesan, Maisara Binti Mohamed Redzuan, Nur Aleeya Binti Zulkapli & Nurul Husna Bt Mat Zaki

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ABSTRACT

The lack of access to educational resources, notes, and materials from lecturers impacts student's engagement in class. Furthermore, sometimes lecturers' inability to use modern technology limits their capability to provide support and consult with students, ultimately affecting the overall academic environment. The Elyware is designed to enhance the educational experience by integrating several key functionalities. It ensures that class notes and resources are available before lectures, reducing confusion and boosting student engagement. Lecturers gain access to relevant student information, facilitating personalized support and effective tracking of academic progress. This innovation features a streamlined booking system for consultations, allowing students to easily schedule or reschedule appointments. Additionally, an integrated online timetable helps students manage their class schedules, assignment deadlines, and other academic activities, thereby improving time management and overall performance. By simplifying communication between lecturers and students and fostering collaborative work, this innovation allows for quick feedback, which accelerates learning and improvement. Its user-friendly design makes it accessible for those who may struggle with modern technology, ensuring that its benefits are easily realized. This innovation will be efficient to improve the overall academy of our Malaysian students and the next generation.

KEYWORDS: Learning Management System (LMS), Student Information System (SIS), Application Programming Interface (APIs)

PROBLEM

Academic settings often face challenges that can affect the student experience, but targeted solutions can greatly improve it. To tackle late access to materials, implementing a (LMS) with set deadlines for lecturers to upload resources, along with reminders and training, ensures timely availability. A centralized (SIS) integrated with the (LMS) can provide lecturers with access to essential student data while maintaining data privacy and security. For poor appointment systems, adopting an online booking platform allows students to book consultations easily, reducing missed appointments through automated reminders. Lastly, an online timetable system that syncs schedules across multiple devices, with notifications and calendar integration, helps students manage their time more effectively.

OBJECTIVE

Increase accessibility to students and lecturers alike towards resources, notes, and materials for students before classes that are compiled within one platform. This platform should ensure that all materials are easily navigable according to the topic and date of lecture and can be viewed without downloading even when offline. Secondly, improve communication by making it

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easier to book consultations with lecturers and displaying their schedule so that the students can book an appropriate time to get an immediate feedback and assessment from lecturers. Thirdly, the aims to create a professional online presence that highlights an individual's skills, achievements, and projects that enhances opportunities for academic admissions while supporting self-promotion and personal branding which acts as a progress tracker, helping with goal setting and reflection, making it a valuable tool for personal development. Lastly, to help students stay punctual with their schedules keep students aware of their tasks, while time management training teaches effective scheduling techniques establishing a structured routine and using visual schedules or checklists can reinforce good habits.

DESIGN DESCRIPTION

The app is designed to enhance academic productivity by automating reminders for students to submit assignments, attend classes on time, access resources, and book consultations with lecturers. It also empowers lecturers with detailed student profiles, helping them provide personalized guidance. Key features include an integrated calendar, push notifications for task deadlines, resource links, and a consultation scheduler. The app's functionality allows seamless tracking of academic progress, boosting student engagement and time management. Its unique selling point is the comprehensive integration of academic tasks into one platform. The primary target audience is higher education institutions, students, and educators.

VISUALS





Majority of students believe it is difficult to schedule a consultation with lecturers. This proves that not many students are able to consult.

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The survey collects opinions from users about classroom apps, aiming to gather insights for improving them. These responses help the Elysian Innovation Team enhance educational tools, fostering better innovation and more effective digital learning solutions.
According to the survey, 94.1% of students find it challenging to schedule consultations with their lecturers, mainly due to the difficulty in aligning both parties' availability. This overwhelming majority highlights a significant issue in communication and access to academic support. The data suggests that many students miss out on valuable consultation opportunities, which could negatively impact their learning and progress.

NOVELTY AND UNIQUENESS

This app integrates assignment reminders, class schedules, resource access, consultation booking, and personalized student profiles in one platform, offering seamless communication between students and lecturers. Its real-time analytics and holistic academic management distinguish it from existing fragmented solutions.

BENEFITS TO MANKIND

This app can improved time management as it has auto reminder to help students manage their time better by reminding them of important tasks, deadlines, or events, ensuring nothing is overlooked. Moreover, enhanced productivity by automating the process of keeping track of tasks which help students to focus on completing their work without the need to manually monitor their schedules. Thus, students and teachers can access materials, assignments, and feedback from anywhere with an internet connection, promoting remote learning and efficient communication.

COMMERCIAL POTENTIAL

An app that provides auto-reminders for assignments, classes, resources, and consultations, while offering lecturers student insights, has strong market potential in the education sector. It addresses time management and student engagement challenges, creating a competitive advantage by integrating academic tasks into one platform. The business model could include a subscription service for institutions or premium features for students. Scalability is high, as the app can be adapted for various educational systems globally. Initial costs would involve app development, marketing, and cloud services, but the potential for institutional partnerships and licensing offers long-term revenue growth.

CONCLUSION

The Elyware app addresses common academic challenges by integrating essential functionalities like auto-reminders for assignments, class schedules, resource access, and an easy booking system for student-lecturer consultations. Its primary goal is to enhance student engagement, streamline communication, and offer lecturers valuable student insights for personalized support. The app's comprehensive platform, which integrates an LMS, SIS, and APIs, gives it a competitive edge over fragmented solutions in the market.
Looking ahead, Elyware could expand by incorporating AI-driven personalized learning recommendations and predictive analytics to monitor student progress. Additional partnerships with educational institutions and integration with other platforms like virtual classrooms and digital libraries would further enhance its appeal. The app may also evolve to cater to a broader user base, including secondary education and international academic markets, ensuring continuous scalability and adaptability in a rapidly changing educational landscape.

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