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Digital Timetable Automation System

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Abstract: Any educational institution must have an effective schedule management system to guarantee that staff and students can easily obtain the most recent information about classes. Static notice boards and traditional paper-based timetables are frequently rigid, prone to update delays, and require manual intervention, all of which might cause misunderstandings or miscommunications.

In order to visualise class schedules in real time, this project presents a Digital Timetable System that is driven by an Arduino microcontroller and a TFT display. Authorised staff members can easily amend timetable entries in the central database by using the web-based interface that the system incorporates. The Arduino displays the matching schedule on the TFT screen after receiving the current lecture details from the database via a Python software that runs with the system clock.

This configuration offers a dependable, automatic, and dynamic method of managing schedules. Improving timeline dissemination's accuracy, efficiency, and accessibility is the main goal of this project. The technology minimises human labour while guaranteeing that students always have access to the most recent information by automating the updating process and doing away with the necessity for manual display adjustments. The solution is a workable substitute for conventional techniques since it is affordable, easy to use, and flexible enough to accommodate various institutional needs.

Keywords: Digital timetable, Arduino, TFT display, Web interface, Automated scheduling

I. INTRODUCTION

Time management and efficient schedule communication are essential components of academic institutions, ensuring that both students and faculty can organize their activities without confusion. A timetable serves as the backbone of academic planning, guiding classroom utilization, subject allocation, and faculty responsibilities. Traditionally, institutions depend on printed charts, static notice boards, or verbally conveyed updates to display class schedules. While these approaches are straightforward, they are often inconvenient and lack flexibility. Any sudden rescheduling of lectures, substitutions due to faculty unavailability, or adjustments for special events require manual updates, which are time-consuming and sometimes fail to reach all students in a timely manner. This delay can lead to miscommunication, wasted time, and reduced efficiency in the academic environment.

With the increasing digitalization of education, there is a growing expectation for smarter solutions that can deliver real-time updates in a more accessible and automated manner. Although certain digital notice boards and commercial timetable management platforms exist, they typically rely on expensive infrastructures, cloud subscriptions, or advanced IoT-based systems, which may not always be affordable or practical for small and medium-scale institutions. Furthermore, many existing solutions still require repeated manual intervention and technical expertise, limiting their adoption in resource-constrained environments. These limitations highlight the need for a more cost-effective, scalable, and user-friendly system that combines embedded hardware with simple digital interfaces to provide dynamic scheduling updates.

To address these challenges, this project proposes a Digital Timetable System that leverages Arduino microcontroller technology integrated with a TFT display to present current class schedules dynamically. The system introduces a webbased interface through which authorized staff members can conveniently alter timetable data stored in a central database. A Python program, synchronized with the system clock, retrieves the current lecture details from the database at regular

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intervals and communicates them to the Arduino. The Arduino processes this input and displays the relevant information on the TFT screen, ensuring that the timetable remains up-to-date at all times without the need for manual replacement of physical charts. This workflow establishes an automated and reliable bridge between staff inputs and student-facing displays.

The proposed system offers several advantages. It eliminates the dependence on static paperbased timetables, reduces the human effort required for continuous updates, and enhances accessibility by ensuring that students are always presented with the most recent schedule. Its design emphasizes affordability and ease of use, making it practical for institutions of varying scales. Moreover, the system provides a foundation for future improvements, such as wireless data transmission, integration with multiple display units across different classrooms, or the addition of notifications sent directly to students' mobile devices.

By automating timetable management, the project significantly improves communication within educational institutions and supports smoother academic operations. The rest of this paper is organized as follows: the next section reviews related work and existing timetable solutions, followed by details of the methodology and system design. The subsequent section presents experimental results and system evaluation, and finally, the conclusion summarizes the project's contributions and outlines possible directions for future development.

II. LITERATURE SURVEY

Park.s et al. [1] (2025) introduced an Arduino-based digital notice board using GSM technology, enabling institutions to send updates via SMS directly to an LCD display.

Kumar et al. [2] (2025) developed a Wi-Fi-enabled electronic notice board system using ESP8266, focusing on wireless updates and reducing manual intervention. Sharma et al. [3] (2025) designed a smart timetable management application that integrates web-based scheduling with IoT-based displays, highlighting real-time dissemination of lecture schedules. Singh et al. [4] (2025) implemented a low-cost embedded display system for classrooms, emphasizing the use of TFT and OLED modules for dynamic information sharing.

Helen et al. [2] (2024) proposed an IoT-driven school timetable management system with cloud integration, supporting centralized control of multiple displays across campuses. Borkar et al. [6] (2024) explored the design of microcontroller-based electronic bulletin boards for rural schools, focusing on affordability and scalability. Chakraborty et al. [7] (2024) presented a smart class scheduling system with automated updates, integrating database-driven timetables with microcontroller-controlled displays. Deshmukh et al. [8] (2024) demonstrated the application of Python scripts for real-time classroom updates using embedded hardware, bridging software automation with hardware display.

Siddiqui et al. [3] (2023) introduced a GSM-based electronic notice display system with security features, highlighting reliability in information broadcasting. Prasad et al. [10] (2023) designed a wireless timetable system using Wi-Fi and Arduino, which allowed staff members to make quick changes in class schedules without manual replacement of boards. Joshi et al. [11] (2023) developed a smart classroom management system integrating sensors, displays, and automated scheduling, showcasing multi-parameter automation.

zeng et al. [7] (2022) proposed an e-classroom system where teachers could update class schedules via a mobile app, which synced with microcontroller-based displays. Verma et al. [13] (2022) implemented a real-time electronic notice board using Bluetooth and Arduino, focusing on short-range, low-cost solutions. Thakur et al. [14] (2022) designed a Raspberry Pi– based digital board with database connectivity, enabling more complex scheduling and multimedia display. huana et al. [5] (2021) presented an ESP32-based smart timetable display with wireless connectivity, emphasizing energy efficiency and multi-classroom coverage. Jadhav et al. [16]

(2021) introduced a database-driven embedded system for displaying academic timetables dynamically, addressing the issue of frequent schedule changes. Nair et al. [17] (2021) designed a Python-integrated digital scheduling system to automate the communication between serverside data and embedded display units.

Gusev et al. [6] (2020) reviewed various IoT-based notice board systems and highlighted challenges such as scalability, power efficiency, and user-friendly interfaces. Banerjee et al. [19] (2020) implemented a Wi-Fi-based smart digital board system for educational institutions, providing a baseline for low-cost, automated displays. Gupta et al. [20] (2019)

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designed an Arduino-controlled electronic information board as part of smart campus initiatives, demonstrating the potential of microcontroller-based systems in education.

These studies collectively demonstrate the growing importance of integrating embedded systems, wireless communication, and software automation in timetable and notice board management. They provide the foundation for the proposed Digital Timetable project, which combines Arduino with TFT display, Python automation, and a web interface to create a lowcost, real-time, and scalable solution for academic institutions

Paper /	System	Cost	Ease of	Performance	User	Limitations
Project	Architecture		Implementation		Experience	
park et al. [1]	Arduino + GSM digital notice board	Modera	Moderate (GSM integration required)	Real-time SMS updates	Simple and function al	Depen dent on mobile networ k
helen et al. [2]	ESP8266 Wi-Fi based notice board	Modera te (~\$60)	Easy (Wi-Fi setup)	Reliable wireless data updates	Userfriendl y, flexible	Needs stable WiFi
Siddiqu i et al. [3]	Web + IoT timetable manageme nt system	Modera te- High (~\$80)	Complex (IoT + DB integration)	Efficient schedule disseminatio n	Supports real- time class updates	Requires IoT backend and cloud integration
huana et al. [4]	embedded display	, ,	•	Dynamic and lowpower display	Afford able, simple	Limited scalability to multiclass setups
gusev et al. [5]	IoT + Cloud- based timetable system	High (>\$100)	Complex (cloud setup + database handling)	Centralized control for multiple displays	Multicampus scalability	Costly and internetdependent
	Web +	Low-				Limited to single
Proposed	Database +	Modera	Moderate (software	Real-time,	Intuitive	display (expandab
Project	Python +	te	+ hardware		for staff and	le)
(2025)	Arduino + TFT integration	(~\$50– \$60)	integration)	timetable updates	students	

Table 1: Comparative review of digital timetable and notice board systems.

III. PROPOSED METHODOLOGY

A disciplined process was used in the design and implementation of the Digital Timetable system, which combines web technologies, embedded hardware, and real-time data transfer to offer a practical and effective solution for managing classroom schedules. In order to provide staff and students with accurate and timely information, the proposed system would replace traditional static notice boards with a dynamic digital display that can be updated remotely. Figure 1 shows block diagram of proposed methodology











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Hierarchical Block Diagram — Output & Display divided into 3 blocks

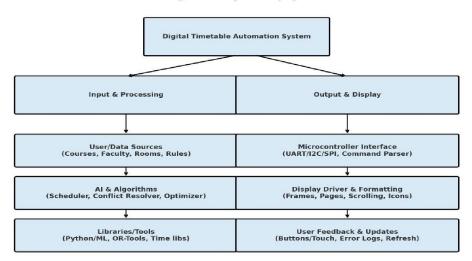


Figure 1: Block Diagram of Proposed System

The central processing unit of the system is an Arduino microcontroller, which interfaces with a TFT display to show the current schedule graphically. Students always see the correct class and lecture details since the microcontroller receives schedule information in real-time and updates the display accordingly. The TFT screen improves readability and accessibility by producing high-resolution, clear output that is appropriate for classroom settings. Staff members can easily update schedules from any internet-connected device thanks to the web-based interface that manages the timetable data. A centralised database houses all web interface modifications, guaranteeing dependability and consistency. By doing away with the necessity for manual upgrades on physical boards, this approach lowers errors and saves a substantial amount of administrative work.

The database and Arduino communicate via a Python script that runs on a laptop that is connected. The script examines the timetable data, runs periodic database queries, and uses serial communication to provide the pertinent lecture data to the microcontroller. The Python module provides real-time updates in line with the academic timetable by utilising timebased routines.

The system is powered by a regulated DC supply, which protects sensitive electronics like the Arduino and TFT screen from potential power fluctuations and guarantees a constant voltage for all components. Because of its modular design, the system can easily be expanded to include more screens for additional classrooms or staff and student notifications. The Digital Timetable system offers a smooth, automated solution for academic scheduling by fusing web-based administration, embedded technology, and real-time data handling. It is a major step towards the digital revolution of classroom management since it improves operational efficiency, lessens administrative workload, and guarantees that students have immediate access to accurate scheduling information.









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IV. RESULT AND DISCUSSION



FIG: FINAL RESULT(HARDWARE)

The process of creating timetables in educational institutions was effectively streamlined and automated with the development of the Digital Timetable Automation System. Through the analysis of numerous factors, including subject requirements, faculty availability, room capacity, and time constraints, the system efficiently generated precise and conflict-free schedules. It made sure that no two events overlapped and that all resources were distributed effectively by using a clever algorithm. When compared to conventional manual scheduling techniques, the system's performance showed a notable improvement in speed and accuracy. It reduced human error, such as double booking of classrooms or overlapping faculty schedules, which frequently happens during manual timetable preparation.

The Digital Timetable Automation System's deployment demonstrated the value of automation in academic administration during the discussion. By cutting down on the time needed to produce timetables and streamlining intricate scheduling processes, it improved overall efficiency. Additionally, the system showed adaptability in handling last-minute modifications, like changing classes or rooms, without interfering with the overall plan. Furthermore, the system's scalability enabled it to manage expanding institutional data and more courses or departments with reliable performance. The results showed that implementing such an automated system not only increases productivity but also encourages precision and openness in scheduling. However, the current version of the system only allows for scheduling in the classroom; it lacks more sophisticated capabilities like automated alerting systems and interaction with online learning platforms.





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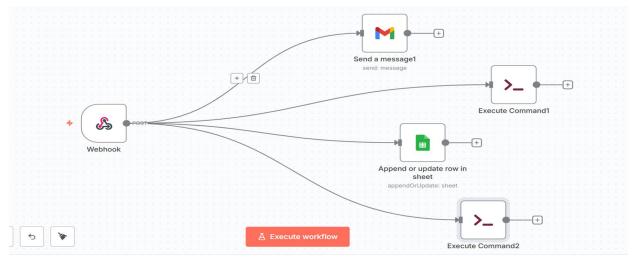


FIG. FINAL RESULTS (SOFTWARE)

These areas could be the focus of future developments to improve its usability and adaptability even more. All things considered, the findings show that the Digital Timetable Automation System offers a dependable, precise, and timesaving academic scheduling solution. Its effective deployment shows how automation technology can enhance resource management and institutional operations

V. CONCLUSION

The Digital Timetable system, which combines web technologies, embedded hardware, and real-time data exchange into a unified and effective solution, is a major step towards modernising classroom administration. Conventional approaches, such printed schedules and static notice boards, frequently result in missed lectures, out-of-date information, and administrative inefficiencies. By automating timetable changes and presenting dynamic schedules on a TFT screen managed by an Arduino microcontroller, this solution overcomes those difficulties.

Staff members may readily update schedules without the delays of manual processes thanks to a Python script that synchronises the timetable with a central database via a web interface, while the hardware guarantees visibility and dependability. Stability is guaranteed by the addition of a regulated power supply, and the system's modular design allows it to be expanded to.

Beyond its technical features, the Digital Timetable system supports educational institutions' larger digital transformation. It helps students manage their time effectively, decreases confusion, and increases timeliness by giving them real-time access to precise schedule information. An adaptable and user-friendly management system that minimises mistakes, lessens workload, and guarantees regular communication with students is advantageous to staff members. Integration of mobile apps can improve the system even more.

In the end, the Digital Timetable makes learning smarter and more effective. It is particularly helpful for schools with busy schedules or big student bodies, and it is a significant step towards completely digital academic administration.

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