

# E-BOOK OF EXTENDED ABSTRACT

## THE 14<sup>TH</sup> INTERNATIONAL INVENTION, INNOVATION & DESIGN COMPETITION 2025



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THE 14th INTERNATIONAL  
INVENTION, INNOVATION &  
DESIGN COMPETITION 2025

**Organized by:**

Office of Research, Industry,  
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# WAQF-IS: A DIGITAL INNOVATION FOR EFFICIENT REGISTRATION AND MONITORING OF WAQF ILMU SERIES

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## ABSTRACT

At Universiti Teknologi MARA (UiTM), the Waqf *Ilmu* Series is a series of forums for knowledge-sharing programs aligned within an academic context. However, ineffective manual mechanisms have limited its administrative procedures, especially in participant registration and monitoring. To improve the overall administration of Waqf *Ilmu* Series events, measure participant involvement, and expedite registration, this project presents Waqf-*Ilmu* Series (WAQF-IS), a web-based platform. The system was created using an organised process that included web development and user-centered design. It has been successfully deployed in various operational programs. By facilitating more access to structured, inclusive, and effectively run educational programs, this innovation directly advances Sustainable Development Goal 4 (Quality Education). Incorporating digital technologies into event management simultaneously advances Sustainable Development Goals 8 (Decent Work and Economic Growth) and encourages productivity, creativity, and the development of digital skills among university students. Through digital transformation, WAQF-IS demonstrates the function of waqf as a catalyst for institutional sustainability in addition to its use as a benevolent tool.

**Keywords:** waqf, sharing knowledge, digital innovation, efficiency

## 1. INTRODUCTION

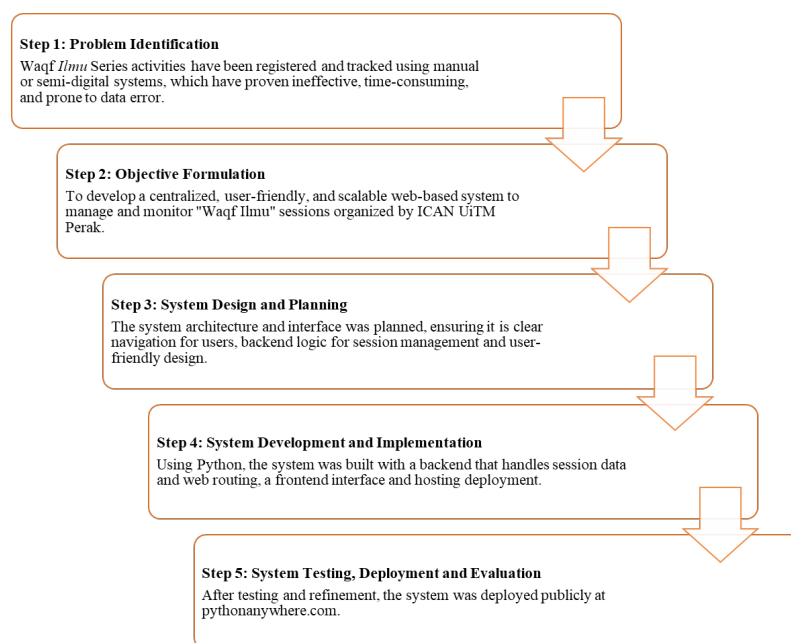
Waqf, an Islamic endowment of property for charitable or religious purposes, plays a significant role in supporting educational and spiritual initiatives within higher education institutions. Generally, waqf is the commitment of assets, land, money, and knowledge for charity reasons hoping to provide ongoing advantages to society (Almomani et al., 2024). Waqf functions as a sustainable method to support access to knowledge and the continuation of academic and spiritual development in the context of higher education. At Universiti Teknologi MARA (UiTM), the Waqf *Ilmu* Series is one such initiative, offering a series of knowledge-sharing programs funded and sustained through waqf contributions. Hence, the system used to support the programs must be scalable and adaptable, offering potential replication across higher education and non-profit sectors seeking digital solutions for program management.

## 2. PROBLEM STATEMENT

Waqf *Ilmu* Series activities have been registered and tracked using manual or semi-digital systems, which have proven ineffective, time-consuming, and prone to data errors. These restrictions make it harder to plan future activities and monitor the efficacy of the program. Furthermore, it also does not guarantee reporting transparency. A consolidated, automated, and user-friendly solution that can expedite the registration process and provide real-time monitoring is desperately needed. This can be supported by research stating that the public has persisted in increased transparency and the highest quality of services (Kamaruddin et al., 2018). Therefore, the main objective of this invention is to create and deploy WAQF-IS, a web-based platform created for UiTM's Waqf *Ilmu* Series program registration and monitoring. Enhancing administrative effectiveness, increasing accessibility for participants and organizers, and improving data accuracy are the goals.

## 3. METHODOLOGY

This project utilised a structured five-step development methodology to ensure the successful creation and implementation of the WAFQ-IS system. This is a web-based platform developed to support the knowledge creation initiatives (Waqf *Ilmu*) organised by ICAN, UiTM Perak. The methodology involved both technical development and problem-solving processes tailored to the actual needs of the respective users.



**Figure 1** Steps of Development for WAFQ-IS System

## 4. FINDINGS

At Universiti Teknologi MARA (UiTM), WAQF-IS has been effectively implemented and used in several Waqf *Ilmu* Series events, signaling a substantial transition from manual systems to a completely digital, centralised platform. Participants can sign up remotely using desktop or mobile devices thanks to the system's easy online registration process, which also allows for real-time program slot selection. While integrated dashboards offer immediate access to current participant lists, attendance records, and event analytics, automated data collecting tools have made it easier to record participant information. By reducing repetitive manual operations including data entry, paper-based recordkeeping, and physical registration, WAQF-IS has significantly decreased administrative workload. This agrees with the

findings of Ahmad et al. (2020), who highlighted that digital platforms considerably increase administrative efficiency and reduce human error in educational event management. Additionally, participant engagement has been enhanced through features such as automated email notifications and real-time confirmation messages, which help to keep users informed and increase overall satisfaction. This outcome is consistent with linking automation, communication technology, and an improved user experience in educational settings (Yusof et al., 2022).



**Figure 2** Waqf-IS interface

## 5. CONCLUSION

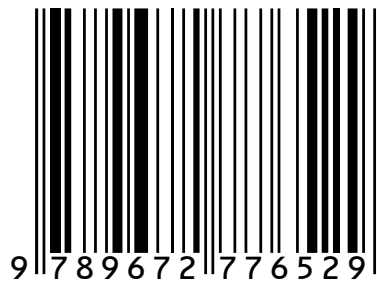
By facilitating fair and accessible access to high-quality education through simplified digital participation in waqf-based learning programs, WAQF-IS supports Sustainable Development Goal 4. It guarantees the efficient management and transparent delivery of educational opportunities, promoting lifelong learning and broader community involvement. By incorporating digital innovation into organizational procedures, lowering administrative workloads, and encouraging staff and students to advance their ICT proficiency, the system simultaneously advances Sustainable Development Goal 8. WAQF-IS is a prime example of how technology may promote sustainable economic and educational growth within the context of Islamic philanthropy by increasing productivity and fostering innovation in non-profit educational management.

## REFERENCES

- Ahmad, M. F., Azmi, N. M., & Latiff, L. A. (2020). Digital transformation in educational administration: A study of e-registration systems in Malaysian universities. *International Journal of Education and Training*, 6(1), 12–21.
- Almomani, M. A.-A., Abu Alhoul, M. A., Alqudah, M. T. S., & Al-Khalidi, I. K. S. (2024). Exploring Digital Waqf Management: Opportunities and Challenges. *International Journal of Religion* 2024, 5, 11. <https://doi.org/10.61707/ax7vd794>
- Kamaruddin, M. I. H., Masruki, R., & Hanefah, M. M. (2018, September 3). Waqf Management Practices: Case Study in a Malaysian Waqf Institution. *World Journal of Social Sciences*, 8(3), 1-12
- Yusof, N. A., Abdullah, R., & Hashim, H. (2022). Improving user satisfaction through automation in academic systems: A usability study. *Journal of ICT in Education*, 9(2), 45–59.

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