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# 6<sup>th</sup> International Innovation & Design in Library & Information Science Competition (InDeLib2023)



## MAPPING THE LIBRARY OF TOMORROW THROUGH INNOVATION

### Editors

Asmadi Mohammed Ghazali  
Abd Latif Abdul Rahman  
Zuraidah Arif  
Zati Atiqah Mohamad Tanuri

Dewan Perdana,  
UiTM Kedah

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Nov  
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## PREFACE

The first International Innovation & Design in Library & Information Science Competition (InDeLib) was held in 2016 at the international level. InDeLiB became a brand name linked to the Faculty of Information Management, UiTM Kedah Branch, known to many local and international learning institutions. InDeLib is open to all organizations (libraries), librarians, professionals, researchers, academicians, teachers, and students from institutes of higher learning, college, secondary and primary schools. They share their ideas or methods throughout innovation and invention, particularly in library and information science. The 6<sup>th</sup> InDeLib 2023 is endorsed by the Librarians Association of Malaysia and the National Library of Malaysia.

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## **logBlog: REVOLUTIONIZING INDUSTRIAL TRAINING DOCUMENTATION**

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### **Abstract**

In Malaysia, the higher education sector, particularly the Diploma in Computer Science program (CS110) at UiTM Cawangan Kedah, is experiencing a significant transformation with the introduction of 'logBlog'. This tool represents a departure from the traditional paper logbook for documenting industrial training experiences. Launched in 2023, logBlog, hosted on Google Sites, offers an interactive platform where students can vividly record their industrial training experiences using text, images, videos, and audio. This multimedia approach makes the documentation more engaging and memorable compared to the previous monochromatic, paper-based methods. LogBlog's user-friendly design distinguishes it, combining Google Sites' intuitive interface with diverse multimedia capabilities, ensuring accessibility even for those less comfortable with technology. It goes beyond mere documentation; it enables students to relive, analyze, and draw inspiration from their experiences. In higher education, the focus is on integrating technology for enhanced learning, and logBlog stands out as a revolutionary tool. It redefines how students and educators document and reflect upon industrial training, transforming traditional practices into innovative learning experiences. For innovation competitions, logBlog exemplifies how technology can be creatively applied to turn conventional methods into cutting-edge educational tools.

### **Keywords**

logbook, industrial training, multimedia, supervision, google sites

### **Product Description**

'logBlog' is a digital logbook tailored for industrial training in higher education. It features a user-friendly dashboard for tracking entries and feedback and an entry module for students to document their experiences. It stands out with its multimedia integration, allowing text, images, videos, and audio to be embedded for richer documentation. The platform includes a real-time feedback mechanism, cloud storage for data security, and a calendar for managing training sessions. Analytical tools provide insights into student progress and areas for improvement. Unique features include an offline mode for areas with limited internet, collaboration tools for group work, advanced encryption for security, customizable templates for various industries, and seamless integration with Learning Management Systems, making it an efficient and versatile tool for educational settings.

### **Methodology**

The transition from traditional paper logbooks to the digital logBlog platform in documenting industrial training experiences was achieved through a systematic and rigorous research methodology, detailed in three main phases:

Examination of the Traditional Logbook (Until 2020):

- Problem Identification: The paper-based logbook had limitations such as durability issues, restricted access, and feedback delays due to manual submission.

- Data Collection: Feedback from students and supervisors highlighted challenges related to physical degradation and inefficient manual evaluations.
- Analysis: This indicated the need for a more robust and efficient system.

#### Transition to the Digital Logbook (2021):

- Research Question: Focused on modernizing the process for convenience and efficiency while preserving documentation integrity.
- Solution Hypothesis: Proposed a digital format using platforms like Google Form/Drive to overcome traditional logbook challenges.
- Development & Testing: Introduced the Virtual Internship System with limited online access and online evaluations.
- Validation: Its effectiveness was recognized with the Gold Award at IIDEX 2021.

#### Advancement to logBlog (Present):

- Gap Identification: After the success of the digital logbook, there was a desire to enhance the documentation experience further.
- Research Proposal: Suggested using Google Sites for a more multimedia-rich platform.
- Design & Prototyping: Developed logBlog with features for multimedia content, global access, and real-time monitoring.
- Iterative Testing & Refinement: Employed continuous feedback to ensure user-friendliness and efficiency

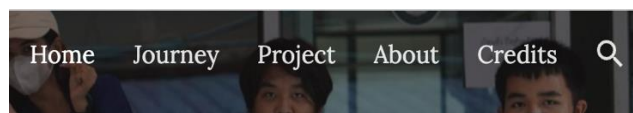


Figure 1: Outline of logBlog

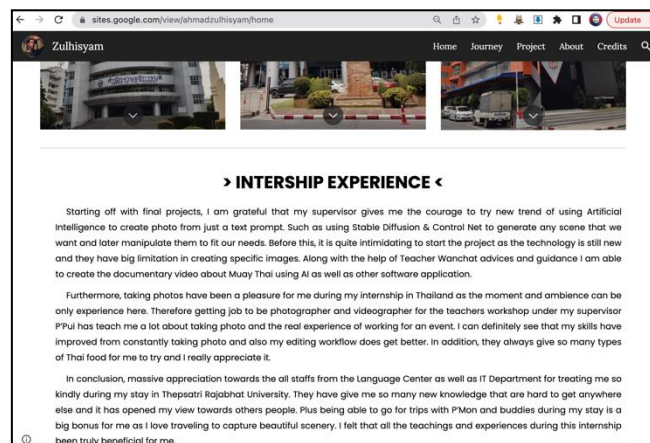


Figure 2: Home page of logBlog

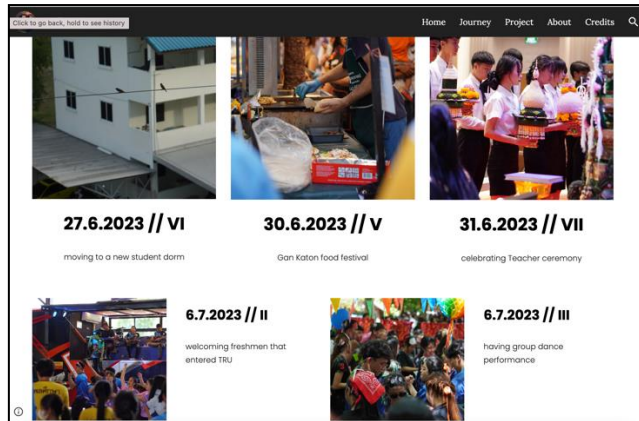


Figure 3: Journey page of logBlog

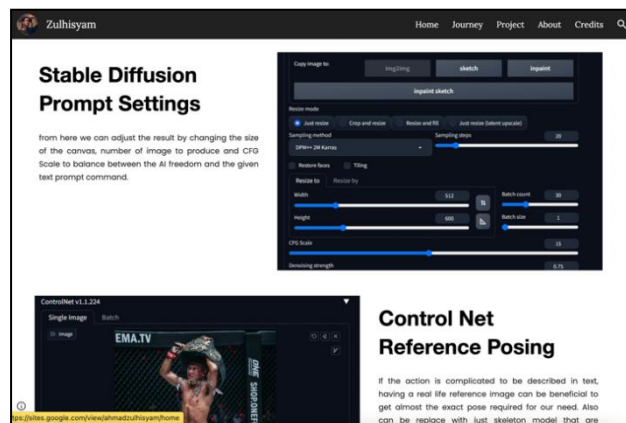


Figure 4: Project page of logBlog

## Novelty and Uniqueness

'logBlog' is an innovative digital logbook solution hosted on Google Sites, designed to enhance the documentation of industrial training in higher education. This platform merges educational expertise with advanced technology, making it ideal for modern logbook requirements.

The platform distinguishes itself with several key features. It integrates multimedia elements such as photos, videos, and audio, providing a richer and more nuanced recording of experiences than traditional text-based logbooks. To accommodate varying internet access, logBlog supports offline documentation, automatically syncing data once internet connectivity is restored. It also encourages collaborative learning through tools that enable group reflections and joint entries, fostering teamwork in educational settings.

Another notable aspect of logBlog is its adaptability. It offers customizable templates tailored to different industrial sectors, ensuring relevant and personalized documentation. Additionally, the platform features integrated analytics, giving insights into student progress and areas for improvement. Moreover, logBlog's compatibility with various Learning Management Systems streamlines evaluation, feedback, and grading processes, further distinguishing it from conventional educational tools.

## Benefit to Mankind

Benefits to Target Persons & Society:

- Empowering Students: Deepens engagement with training experiences, preparing students effectively for future careers and enhancing workforce readiness.
- Enabling Educators: Allows educators to monitor and assess student progress more efficiently, leading to improved training outcomes.
- Fostering Collaboration: Promotes teamwork and collaboration skills, benefiting individuals, organizations, and society.
- Environmental Benefit: Reduces physical documentation, contributing to sustainability and reduced paper usage.

## **Potential Commercialization**

### Product Potential:

- **Widespread Applicability:** logBlog's features make it suitable for various settings, including universities, vocational centers, research institutions, and corporate training programs.
- **Scalability:** Without performance issues, it can expand from small to large institutions, including multinational corporations.
- **Integration with Learning Systems:** logBlog's compatibility with various Learning Management Systems allows easy integration into existing educational structures.
- **Adaptability:** Customizable templates make logBlog versatile for different sectors.

### Commercialization Possibilities:

- Training and consultation services related to logBlog usage and best practices in industrial training documentation could be a viable commercial avenue.

## **Researchers Biographical Data**

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