

MELAKA
INTERNATIONAL
INTELLECTUAL EXPOSITION

MIIEX'24

12 JUNE '24

Dewan Taming Sari,
Universiti Teknologi MARA Caw. Melaka,
Kampus Alor Gajah, Melaka

*"Empowerment of Special
Needs through Invention
& Innovation"*

**EXTENDED
ABSTRACT**

MiiEX'2024

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION 2024

**“EMPOWERMENT OF SPECIAL NEEDS THROUGH INVENTION AND
INNOVATION”**

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UiTM Cawangan Melaka

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78000 Alor Gajah

Melaka Bandaraya Bersejarah

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MiiEX'2024

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION 2024

**“EMPOWERMENT OF SPECIAL NEEDS THROUGH INVENTION AND
INNOVATION”**

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INNOVATION, INVENTION, AND DESIGN

FOREWORD BY THE RECTOR OF UiTM CAWANGAN MELAKA



Professor Ts. Dr. Mohd Rasdi bin Zaidi

Rector, Universiti Teknologi MARA (UiTM)

Cawangan Melaka

Welcome to the Melaka International Intellectual Exposition 2024 (MIIEX '24). It is an honour for me, on behalf of UiTM Cawangan Melaka, to thank all of you for joining MIIEX '24. We are proud to inform you that this is the 13th consecutive year that UiTM Cawangan Melaka is organizing this exposition. Since 2009, UiTM Cawangan Melaka has successfully hosted this innovation exposition. Not only have we succeeded in organizing the exposition, but we have also successfully embarked on commercialized products.

2024 is a special year where MIIEX 2024 emphasizes the development of special needs. As we know, special needs indicate a limitation in a person's ability to engage in and benefit from various aspects, such as daily activities and education. Hence, with the theme "Empowering Special Needs Through Invention and Innovation," it is a platform for industries, professionals, academicians, students, and communities to share their innovative ideas and products to increase accessibility for those with special needs.

The successful implementation of MIIEX '24 is our joint success. This event was supported by the Melaka state government through YB Datuk Fairul Nizam bin Roslan, the EXCO of Science, Technology, Innovation, and Digital Communication. I also want to express my

gratitude to Universitas Negeri Padang, Indonesia, Universitas Muhammadiyah, Makassar, Indonesia, the International Association of Economic and Businesses (IAEB), Universiti Sains Islam Malaysia, Ibnu Umami Maktum Research Center (UMMI), USIM, and The Southeast Asia Minister of Education Organization Regional Centre for Special Educational Needs (SEAMEO SEN) as our co-collaborators for MIIEX 2024.

The collaboration from various parties in MIIEX '24 is a platform that will improve cooperation and interweaving among industries, professionals, academicians, students, and communities in shaping their potential in developing innovation products. This exposition also serves as a platform to cultivate and uphold the nation's innovation culture by presenting new ideas and research by young people, especially from academia and universities. Indirectly, MIIEX '24 will encourage all inventors towards empowering Science, Technology, Engineering, and Mathematics (STEM), especially in primary and secondary schools.

The new digital landscape also inspires more innovation and new ideas that contribute to various activities, such as business and industries. As a university that encourages "Research and Innovation," we aim to foster more innovative products that benefit scholars, industries, and communities, addressing issues to improve our present and future life.

This exposition would never happen without dedication, teamwork, and commitment. A round of applause should be given to the committee teams, who are the backbone of this exposition. Their hard work, effort, and time made this exposition possible.

Finally, I would like to conclude this brief remark by thanking all the participants and stakeholders for joining the exposition. We hope that this collaboration never ends here.

Thank you.

FOREWORD BY THE DEPUTY RECTOR (RESEARCH & INDUSTRIAL LINKAGES)



Associate Professor. Dr. Nur Hayati binti Abd Rahman

Deputy Rector (Research & Industrial Linkages), Universiti Teknologi MARA (UiTM) Cawangan Melaka

With much passion and privilege, let me warmly welcome all of you to the Melaka International Innovation Exhibition (MIIEX), UiTM Cawangan Melaka's flagship event. I firmly believe that events such as these demonstrate the gradual evolution of this platform in terms of its significance and its governing principles within the sphere of learning and the broader scholarly society.

The theme for this year, "Empowering Special Needs Through Invention and Innovation," strongly connects to our mission of using research and technology to make a positive impact on the world we live in. Besides enforcing the message of diversity, this theme also reaffirms our focus on creating products to improve the lives of people with disabilities (PWDs). Such innovations are vital as only through focused constructive changes can society become more sensitive to the needs of all members.

MIIEX allows researchers, students, and industry professionals to come together, share their innovative research, and develop viable research partnerships. It has been great to see the enthusiasm of the participants and the efforts they put into their projects, which can offer various social and economic benefits. This is why one can state that MIIEX is a great

opportunity for creating connections between the academic environment and industry, facilitating the implementation of innovative and promising projects.

Finally, I would like to express my sincere appreciation to all the members and supporters of the organizing committee, all the participants, sponsors, and everyone involved in preparing this event. I want to express my gratitude for your commitment and involvement, as the success of MIIEX and the development of an active culture of innovation in our university and beyond is partly owed to your support.

Thank you

FOREWORD BY THE PROJECT DIRECTOR



Dr Zulkefli bin Muhamad Hanapiyah

Senior Lecturer

Assalamualaikum and Warmest Greetings,

It gives me a great pleasure, on behalf of the organizing committee, to welcome all participants and speakers to the Melaka International Intellectual Exposition 2024 (MIIEX '24) with the theme "Empowering Special Needs Through Invention and Innovation." We are honoured and pleased to welcome all participants to this biennial event.

MIIEX '24 is a platform that gathers experts from local and international industries, academia, scientists, researchers, and the community to contribute to the advancement of scientific and technological knowledge. This knowledge helps develop disruptive innovation products that improve daily activities for businesses and the community, especially those with special needs.

MIIEX '24 provides an atmosphere for inventors of all levels to gain new exposure and collaborate. Indirectly, this promotes a collaborative and innovative culture that focuses on cutting-edge technologies and new standards in technology and creativity.

MIIEX '24 is anticipated to serve as an arena for participants to acquire and disseminate revolutionary information on ideas and innovation. It is intended that the competition will expose the contestants' minds to the latest technologies and designs, aligning with the government's goal of encouraging innovation in Malaysia.

Finally, I want to compliment my fellow committee members on their amazing efforts, which were vital to the event's success. In addition, I want to thank our co-organizers, event sponsors, and participants. Optimistically, we hope that all new knowledge discovered, invented, or innovated will lead us toward future sustainability.

Thank you.

FOREWORD BY MELAKA STATE EXCO OF SCIENCE, TECHNOLOGY, INNOVATION AND DIGITAL COMMUNICATIONS



YB Datuk Fairul Nizam bin Roslan

Melaka State Exco of Science, Technology, Innovation and Digital Communications

Welcome to the Melaka International Intellectual Exposition 2024 (MIIEX '24). It is an honor for me, on behalf of UiTM Cawangan Melaka, to thank all of you for joining MIIEX '24. We are proud to inform you that this is the 13th consecutive year that UiTM Cawangan Melaka is organizing this exposition. Since 2009, UiTM Cawangan Melaka has successfully hosted this innovation exposition. Not only have we succeeded in organizing the exposition, but we have also successfully embarked on commercialized products.

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This exposition would never happen without dedication, teamwork, and commitment. A round of applause should be given to the committee teams, who are the backbone of this exposition. Their hard work, effort, and time made this exposition possible.

Finally, I would like to conclude this brief remark by thanking all the participants and stakeholders for joining the exposition. We hope that this collaboration never ends here.

Thank you.

MIIEX'24 ORGANISING COMMITTEE

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	MUHAMMAD FURQAN BIN AZHAR
	KHAIRUL AZHAR BIN LOCHMAN

ABOUT MIIEX'24

MIIEX'24 is an innovation competition annually organised by UiTM Melaka with the intention to bring together ideas and inspiration that could fit in for commercialization needs.

This event creates a platform for researchers to establish networking, partnership and opportunities to collaborate with industries.

OBJECTIVES

1. Encourage and instil passion towards inventing and innovating among UiTM Cawangan Melaka staff, students and academicians of local and international higher education institutions;
2. Highlight distinguished talents of skilful inventors and exhibit intellectual products, inventions and innovations among local and private tertiary institutions, government and private agencies, including international participants;
3. Become an effective Business Matching platform for participating research products, matching industries and partnering government agencies;
4. Recognise, inspire and promote invention and innovation products to be patented and commercialized;
5. Increase passion towards inventing and innovating through research and boost interests of government and non-government agencies to obtain consultancy services from a line up experts of higher education institutions and UiTM Cawangan Melaka.

THEME

‘EMPOWERMENT OF SPECIAL NEEDS THROUGH INVENTION AND INNOVATION’

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Community Awareness towards disabled Person: Overview at Malaysia

Chapter

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Abstract

Awareness and support for disabled individuals in Malaysia are growing, with a number of projects focused at fostering inclusivity and accessibility. Organisations such as the Malaysian Council for Rehabilitation and the Malaysian Association for the Blind work to raise awareness and advocate for the rights of disabled persons. However, more work is needed to improve accessibility in public spaces, career opportunities, and societal attitudes towards disabilities. Disabled persons, who have a vast range of conditions and abilities, face a variety of challenges in many areas of life, including accessibility, employment, education, and social inclusion. Efforts around the world aim to promote equal opportunities, accessibility, and acceptance for disabled people, as well as to advocate for their rights and ensure their entire inclusion in society. Although progress has been made, more work is required to eliminate discrimination, enhance accessibility, and provide enough support and resources for disabled people.

Keywords: Disable, Money, Malaysia, Technology awareness, Innovative advancement.

1. INTRODUCTION

One of the most difficult challenges for blind or visually impaired people is distinguishing between different cash notes. (Martins, 2024). The World Health Organisation claimed in 2010 that 39 million people are blind and 246 million have poor vision. In a study of 1169 patients attending the University of Malaya Medical Centre's eye clinic, Reddy et al found that 9.8% had low vision and 0.9% were blind in Kuala Lumpur's urban population. Despite advancements in assistive technology, many persons with disabilities continue to confront barriers to full participation in numerous aspects of life, including school, employment, and social inclusion.

The Pocket Money Braille intends to empower people with visual impairments by providing a portable, low-cost, and effective tool for differentiating bank notes using Braille. A money braille is a device that embosses raised dots on paper money, allowing visually challenged people to determine the value of different currencies via touch. This can be a useful technique for achieving financial independence and accessibility for people with impairments.

2. OBJECTIVE

We aims to assist disable people to calculate their daily money transactions. This template provides a simplified and understandable process of how Pocket Money Braille to address these challenges and enhance the independence and mobility of users. Money Braille provides educational tools and lessons to assist users in learning how to efficiently manage their funds using the platform. It includes budgeting, saving, and investing suggestions, as well as advice on how to navigate financial transactions on your own.

Pocket Money Braille is a practical option for visually impaired people who want to manage their funds with confidence and freedom. (Sagili, C. R., & Thanigasalam T. (2017). Mohammed and Omar compared the performance between visually impaired print reading, Braille reader, and normally vision children. A statistically significant difference was found in reading rate between the three groups ($p < 0.0001$). Pocket Money Braille aims to provide a practical and effective financial management solution for people with visual disabilities, with a focus on accessibility, usability, and empowerment. (Anita Murphy, (2023). It aims to improve its users' financial well-being and independence through straightforward design, complete functionality, and a focus on user needs.

3. NOVELTY & INVENTIVENESS

Pocket Money Braille is a cutting-edge money management tool that caters to the demands of visually impaired individuals. Pocket Money Braille offers unique features such as portability, tactile interfaces, and braille input and output, allowing for greater mobility and accessibility when managing finances. (Aisah Mohamed, Mohd Ikram Ishak, & Norlida

Buniyamin, 2012). Pocket Money Brailier, unlike typical money management tools, is designed to be portable and lightweight.

4. PRACTICALITY & USEFULNESS

Example; Another mode of helping these people is computer based technology such as voice browser which can enable the visually impaired to acquire knowledge faster as they depend in sound. (SAS, (2024)) An innovation by Robest enables the blind to use a smartphone utilizing braille system instead of Qwerty keyboard. The Pocket Money Brailier is compact, lightweight, and easily fits into a pocket or bag, making it perfect for use on the go. Its ergonomic design ensures comfortable use for extended periods. Pocket Money Brailier's compact and portable design makes it more convenient to carry with you wherever you go. This ensures that users may access their financial information and management tools whenever they need them, whether at home, at work, or while traveling. It also confronts the practical challenge that people with visual impairments experience when managing their funds by providing a tactile interface and braille input or output. This makes it extremely accessible and useful to users who rely on touch and braille for communication and information access.

Pocket Money Brailier promotes security with strong authentication techniques, guaranteeing that users' financial information is safeguarded. This increases the system's utility by giving users confidence that their sensitive data is protected. Pocket Money Brailier encourages financial literacy and awareness by giving users tools for tracking their income, expenses, and savings goals. Users can gain a better understanding of their financial habits and make more informed choices regarding budgeting, saving, and spending.

5. CONCLUSION

There are several treatment options available, including spectacles, contact lenses, low vision aids, and surgery. (Sheryl Burgstahler, 2022). The Pocket Money Brailier has become an innovation that allows persons with visual impairments to go about their daily routines without the need for assistance. We want to encourage independence and equitable opportunity for all people. Pocket Money Brailier is both practical and beneficial to those with visual impairments, providing accessibility, portability, ease of use, independence, financial literacy, security, and

peace of mind. Pocket Money Braille helps users with visual impairments manage their funds more successfully and freely by addressing their specific needs.

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