

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
KM26 Jalan Lendu,
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Melaka Bandaraya Bersejarah
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MiiEX'2024

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION 2024

“EMPOWEREMENT OF SPECIAL NEEDS THROUGH INVENTION AND
INNOVATION”

EDITORS AND COMPILERS:

Dr Maimunah Johari

Puan Norlinda Tendot Abu Bakar

Puan Maymunah Ismail

Puan Nor Halawah Ahmad

Cik Afzan Shahilla Amir Hamzah

Puan Azira Rahim

COVER DESIGN:

Rashidy Samsudin

Wan Nur Khalisah Shamsudin

Ridzuan Adli bin Azidin

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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 (MIIEEX), 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.

MIIEEX 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 MIIEEX 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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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

COMMITTEE	NAME
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	TUAN MUHAMMAD IDRIS IRFAN BIN TUAN MOHD AZAHAR
	RASEEDA BINTI HAMZAH
	TS. DR. NOR AFIRDAUS BINTI ZAINAL ABIDIN
DESIGN & MULTIMEDIA	EN RASHIDY SAMSUDIN
	RIDZUAN ADLI BIN AZIDIN
	WAN NUR KHALISAH SHAMSUDIN
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	FAIQAH HAFIDZAH BINTI HALIM
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	PN MAYMUNAH ISMAIL
	PN NOR HALAWAH AHMAD
	PN AZIRA RAHIM
	NORLINDA TENDOT ABU BAKAR
	AFZAN SHAHILLA AMIR HAMZAH
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	ENCIK KHAIRI BIN KHAIRUDDIN
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	MOHD SUFIAN AB KADIR
	SITI MARIAM ALI
	ERRATUL SHELA ESHAK
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	MASLIZA BINTI MOHD RAZALI
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	AFZAN SAHILLA BINTI MOHD AMIR HAMZAH
	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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CapABLEinvest

Muhammad Hakim¹, Putera Haiqal², Muhammad Alif³, Aishah Rosli⁴, Farhanah Adilah⁵, Nur Aqilah⁶, Dr Wan Musyirah⁷

¹Faculty of Business Management (FBM), Universiti Teknologi MARA (UiTM) Melaka, Bandaraya Melaka Campus, 77300, Melaka, Malaysia.

farhanahadilah28@gmail.com

Abstract

At this point, the country's level of achievement in guaranteeing access to digital application facilities for disabled people is still far compared to the standard in developed countries. Furthermore, people with disabilities are given less attention to the importance of investment and stock trading. Therefore, to make it easier for people with disabilities to invest and trade stocks, we designed an exceptional application known as CapABLEinvest that navigates for people with disabilities (OKU). The application provides services, including online appointments and consultations with stockbrokers, stock trading, and investment services. The specialty provided is that the application offers text-based conversations and video calls with sign language interpretation that increases accessibility for individuals with disabilities. By just using the phone's camera, disabled users who are deaf or mute can communicate and receive information quickly through the help of an interpreter who helps them talk. Furthermore, the app provides customization options by allowing users to customize the app interface according to their preferences, including choosing a preferred language, font style, and communication settings. This application also utilized a voice command technology system for users with mobility impairment or blindness. By incorporating these features, this app service for people with disabilities can help bridge communication barriers and increase access to investment and trade facilities for people with disabilities. Therefore, we ensure that this website is suitable for people with disabilities to access so that this group does not continue to be marginalized and ensure that they can also be involved in the digital economy.

Keywords: Disabled (OKU), Accessibility, Investment services, Digital application facilities, Appointments and consultations.

1. INTRODUCTION

CapABLEinvest is an innovative application designed to aim the way individuals with disabilities (OKU) engage in stock investment and trading. Unlike traditional platforms, CapABLEinvest places a high priority on accessibility, making sure that all users regardless of their level of disability, can simply navigate and take advantage of its features. The primary focus of CapABLEinvest's design is to enable smooth communication between stockbrokers and users. Through innovative features such as text-based conversations and video calls with real-time captions or sign language interpretation, the application removes barriers to communication that frequently prevent people with disabilities from fully engaging in the financial markets. When speaking with stockbrokers, individuals who are deaf or mute can easily communicate their views and get information with the help of a trained interpreter. Additionally, CapABLEinvest offers a wide range of customization choices based on personal preferences, going beyond basic accessibility. The app's interface can be customized by users by choosing their favorite language, font style, and communication preferences. Every user can engage with the application in a way that best fits their individual requirements and preferences due to this degree of flexibility. Furthermore, a powerful voice aid system created especially for blind users is included with CapABLEinvest. Because of this functionality, visually challenged people can easily navigate the program, accessing important information and completing transactions. Through the use of these innovative features, CapABLEinvest enables people with disabilities to fully engage in the digital economy while also removing barriers to communication. In a rapidly changing financial industry, this app is essential in promoting fairness and ensuring that no one is left behind by offering equal access to trading and investment opportunities. Therefore, CapABLEinvest is a big step towards building a more equal and inclusive society where people with disabilities can make the most of their financial possibilities and qualifications. CapABLEinvest is more than just a platform for trading and investing because of its creative strategy and consistent commitment to accessibility. It is an inspiration for good change and social empowerment.

2. OBJECTIVE

Apps that help people with disabilities (OKU) manage their money should put accessibility, empowerment, and education first. To meet a variety of needs, they must guarantee simple navigation, understandable language, and assistive technology compatibility. Enhancing

usability and resolving unique issues faced by OKU individuals requires integrating feedback mechanisms, creating a supportive community, and offering personalized financial planning tools. Working with advocacy organizations and making ongoing improvements based on user feedback are essential to advancing financial inclusion and giving OKU individuals the confidence to confidently accomplish their financial objectives.

3. NOVELTY & INVENTIVENESS

CapABLEinvest has several features that set it apart from the traditional investment app. Our key innovation is the voice command technology that allows users to use the app hands-free. This feature aims to navigate persons with disabilities especially those with mobile impairment. Besides, another prime feature of CapABLEinvest is that users can schedule an online appointment with stockbrokers, which allows users to receive personal investment advice from professional experts. Moreover, we also introduce a valuable feature, sign language interpreter assistance during online appointments specifically to help deaf, hard of hearing, or mute people. This feature helps to ensure they also have access to valuable knowledge from the online consultation with the stockbroker.

4. PRACTICALITY & USEFULNESS

CapABLEinvest is an application designed to give disabled individuals equal opportunities in stock trading and investing. People with disabilities can schedule appointments and consultations with stockbrokers, these services are available online for enhanced convenience. Additionally, many kinds of features are available, including text-based communication and video calls, support for third-person interpreters, camera-based communication, customization options, and voice assistance for blind users. CapABLEinvest is useful because it gives people with disabilities accessible and inclusive tools to trade stocks and make investments. Its practicality comes from its capacity to meet the unique demands of those with disabilities.

5. CONCLUSION

CapABLEinvest is a groundbreaking app that promotes financial inclusion for people with impairments by offering accessibility features like text-based communication, video calls, and

voice command technology. Its customization options and online consultation services further enhance its practicality, paving the way for a more inclusive digital economy.

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