

EXTENDED ABSTRACT

MiiEX'2024

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION 2024 "EMPOWEREMENT OF SPECIAL NEEDS THROUGH INVENTION AND INNOVATION"

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MiiEX'2024

MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION 2024 "EMPOWEREMENT OF SPECIAL NEEDS THROUGH INVENTION AND INNOVATION"

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FOREWORD BY THE PROJECT DIRECTOR

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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 Ummi 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

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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.

MIIEX'24 ORGANISING COMMITTEE

COMMITTEE	NAME
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i.	

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	FAIQAH HAFIDZAH BINTI HALIM
	NORSHAHIDATUL HASANA BINTI ISHAK
	HAZRATI ZAINI
	KHAIRUL NURMAZIANNA ISMAIL
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PROGRAM BOOK, ABSTRACT &	DR MAIMUNAH JOHARI
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	PN NOR HALAWAH AHMAD
	PN AZIRA RAHIM
	NORLINDA TENDOT ABU BAKAR
	AFZAN SHAHILLA AMIR HAMZAH
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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

- 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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EZPasar

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Abstract

People with disabilities, especially those who are visually impaired, frequently find it difficult to navigate traditional market and independently seek specific stalls. Their sense of inclusion is hampered by this lack of accessibility, which also restricts their capacity to participate in daily activities. This problem is addressed by the EZPasar application, which offers a userfriendly interface that enables users to identify desirable market stalls with just one click. By utilizing GPS technology and comprehensive stall information, EZPasar improves navigation by providing step-by-step guidance to users to their selected location. The main target audience for EZPasar is people with disabilities, particularly those who are visually impaired, giving them the ability to confidently and easily navigate markets. Furthermore, the application is accessible, welcoming all users including those without disabilities who are looking for a quick and easy way to get around crowded traditional market. In an effort to close the gap between the requirements of individuals with disabilities and typical market contexts, EZPasar places a high priority on inclusion and accessibility. The application fosters a more inclusive society by providing a customized solution to traverse marketplaces, hence promoting equal access to goods and services. By enabling visually impaired people to independently explore marketplaces, EZPasar promotes a sense of freedom and independence. EZPasar saves time and effort by streamlining the purchasing process for all consumers by offering exact directions to requested stalls. Looking ahead, EZPasar holds promising prospects for further development and impactful expansion. Although EZPasar was developed for use in traditional markets, it might be adapted for use in other environments, like shopping malls, airports, and hubs for public transportation. Increasing the application's scope can enhance its usefulness and make it more appealing to a larger audience.

Keywords: Disabilities, visually impaired, accessibility, , user-friendly interface, GPS technology

1. INTRODUCTION

"Those who have long-term physical, mental, intellectual, or sensory impairments which, in combination with various barriers, may hinder their full and effective participation in society" is how the Persons with Disabilities organization defines people with disabilities. Seven categories are used to classify people with disabilities (PWDs) which are physical, learning, mental, hearing, visual, speech, and multiple disabilities. (Disability:IN, 2024) When navigating traditional market, people with disabilities especially those who are visually impaired often face significant barriers. In addition, it more difficult for them to find particular stalls on their own, these places' lack of accessibility lowers their sense of inclusion and engagement in daily activities. The EZPasar application was created as a user-friendly solution to address this pressing need and enable people with disabilities to easily navigate the markets. With the help of GPS technology and thorough stall information, EZPasar provides users with step- by-step instructions so they may safely navigate marketplaces and acquire goods and services on their own. This paper will examine the objectives, novelty, inventiveness, practicality, and usefulness of the EZPasar application, emphasizing how it might improve accessibility and encourage inclusivity in traditional market environments.

2. OBJECTIVE

The main objective of the EZPasar application is to remove obstacles to accessibility that people with disabilities especially the visually impaired face in traditional marketplaces. In order to enable customers to confidently and independently navigate markets, EZPasar offers a customized solution that combines easy-to-use navigation elements with comprehensive stall information. Furthermore, the application aims to promote inclusion by welcoming all users, regardless of their abilities, and optimizing the buying experience for customers. By promoting equal access to goods and services, EZPasar aims to create a more inclusive society through its user-centric design and commitment to accessibility.

3. NOVELTY & INVENTIVENESS

EZPasar's novel method to resolving the accessibility issues in traditional marketplaces distinguishes it from other options. Through the integration of GPS technology and thorough stall information into an intuitive interface, EZPasar provides a special solution that meets the

requirements of people with disabilities, especially those who are blind or visually impaired. With only one click, the application can deliver users exact directions to their selected stalls, which is a significant advance in accessible technology that increases users' independence. Moreover, the adaptability and inventive potential of EZPasar are shown by its potential to be integrated into many locations, including transportation hubs and shopping malls.

4. PRACTICALITY & USEFULNESS

EZPasar provides a practical solution to a common accessibility problem in traditional marketplaces, hence exhibiting its practicality and usefulness. The application makes shopping for people with disabilities more efficient and convenient by optimizing the navigating process and giving users real-time help. Furthermore, EZPasar's inclusivity makes it useful to a wider range of users, including individuals without impairments who want an easy way to get around crowded marketplaces. The application is accessible to users of all abilities due to its user-friendly interface and intuitive design, which further increases its applicability and usefulness in a variety of market contexts.

5.; CONCLUSION

In conclusion, the EZPasar application is an important advancement in the area of accessibility technology, providing a useful and inventive resolution to the difficulties encountered by people with disabilities in traditional marketplaces. With its user-centric design, thorough stall information, and simple navigation capabilities, EZPasar gives customers the confidence and independence to explore marketplaces on their own. The application's adaptability and long-term influence in fostering inclusivity and equitable access to products and services are highlighted by its potential for development and expansion into other contexts. By putting accessibility and inclusion first, EZPasar helps to build a more welcoming community where everyone has equal access to opportunities and can fully participate in daily life.

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