

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,  
78000 Alor Gajah  
Melaka Bandaraya Bersejarah  
Website: <https://vmiex.uitm.edu.my/>

# MiiEX'2024

**MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION 2024**

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

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**PUBLISHED BY:**

UiTM Cawangan Melaka

KM26 Jalan Lendu,

78000 Alor Gajah

Melaka Bandaraya Bersejarah

Tel: +606-5582094 / 2190 / 2113

eISBN: 978-967-2846-81-9

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## **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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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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	RIDZUAN ADLI BIN AZIDIN
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JURY SELECTION AND MANAGEMENT	EN NORAZLAN ANUAL
	PN AFZAN NOR BINTI TALIB
	PN NUR HIDAYAH ZAINI
	CIK FARIHA AIZA BINTI RAMLY
	PN NURUL AIN BINTI MUSTAKIM
	PN NOORZALYLA MOKHTAR
	PN ZATUL HIMMAH BINTI ABDUL KARIM
	CIK MUNA KAMEELAH BINTI SAUID
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	SITI RAMIZAH JAMA
	SITI NURSYAHIRA ZAINUDIN
	BUSHRA ABDUL HALIM
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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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<b>SALACHOLESTA (OBAT HERBAL KOLESTROL DARI KULIT SALAK) SEBAGAI UPAYA MENINGKATKAN KESEHATAN DAN PEREKONOMIAN DI KOTA PADANGSIDIMPUAN</b>	<b>1429</b>

## **BudgetBuddy Based**

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### **Abstract**

The innovation that we are going to conduct is related to Financial Personal Planning which is BudgetBuddy Based website. As far as we are aware, all that exists is a budgeting template, why not attempt to produce a financial website that focus on disable people? People with disabilities are poorer and more financially insecure than nondisabled people. (Friedman, 2022). BudgetBuddy Based is a specialized financial website created exclusively for people with disabilities, particularly a focus on the deaf people. Unlike other solutions, such as budgeting templates, BudgetBuddy provides a comprehensive platform for effective budget management, including structured inputs for income, expenses, and savings goals. BudgetBuddy's user-friendly and accessible interface enables people with disabilities to make informed financial decisions and adopt sound money management practices, eventually improving their financial well-being and allowing them to participate effectively to the economy. We consider it as an innovative instrument that promotes financial diversity and inclusion. If proven beneficial, we might consider registering for copyright protection to ensure the ongoing accessibility and development of our innovation.

**Keywords: Budget 1, financial planning 2, money management 3, OKU 4**

## **1. INTRODUCTION**

In today's globalized world, financial planning is not only a wise decision, but also necessary for the welfare of society. Our quality of life is directly impacted by the way we manage our finances as economic factors influence every aspect of daily life, from job markets to living expenses. It's not just about obtaining it, it's about being able to seize opportunities, overcome unforeseen obstacles, and eventually design the kind of life we want to lead.

So, for our project, we've introduced a financial planning website known as "BudgetBuddy Based," designed to be an easy-to-use platform for saving money, managing income, investing, and controlling spending for individuals. With a special focus on accessibility, BudgetBuddy is dedicated to serving people with disabilities, also known as OKUs, especially deaf people. People with disabilities are poorer and more financially insecure than nondisabled people. (Friedman, 2022). By providing features tailored to their needs, such as intuitive interfaces and compatibility with assistive technologies, BudgetBuddy aims to remove barriers and empower OKUs to manage their finances confidently and without hesitation. With this website, BudgetBuddy can help disabled persons manage their money wisely without hesitation.

Additionally, using this website only requires a few easy steps. First, visit the BudgetBuddy Based website, select "Create Account" or "Sign Up," and then enter the necessary data. The user must then check their email and click the verification link in order to log in with their email address and password. Thus, the disabled individual can begin using BudgetBuddy Based for free money management.

## **2. OBJECTIVE**

BudgetBuddy Based is committed to providing equal opportunities and respect for disabled people is important for promoting equality and enhancing their quality of life as an equal part of the community. Our objective is to support this group by offering them access to an user-friendly website that can assist them with financial planning. This platform addresses any problems with accessibility that other applications may cause by offering users helpful insights into easy budgeting techniques and systematic saving strategies. BudgetBuddy Based strives to help individuals who have disabilities to efficiently manage their finances through a simple user interface, therefore it will motivate them to take responsibility for their financial situation and increase their independence in making financial decisions.

### **3. NOVELTY & INVENTIVENESS**

In fact, the "BudgetBuddy Based" is a really helpful and informative website for people with disabilities. By using this function, people with disabilities—especially those who are deaf but can still see—may interact with an artificial intelligence (AI) assistant for guidance with any website-related issues. This website has security settings to protect important financial information and give users control over who can access it, all in an effort to safeguard their privacy. In order to help customers successfully manage their finances, create savings goals, track their spending, and learn about investment techniques, there are additional budgeting tools and calculators available. Besides that, there are special features that are really helpful for deaf people, which is visual alert. Some of the visual alerts are flashing lights or color changes to ensure that deaf users are aware of any important information or warning.

### **4. PRACTICALITY & USEFULNESS**

This website is called "BudgetBuddy Based" focusing on disabled people who are having a hard time to actually gain knowledge of complicated things such as managing their financial budget. For instance, they will know whether their spending is really useful or just another waste. This can help them to recognize their pattern of spending and help them to start saving for their future. This website also reminds them how important it is to start saving and not increase unnecessary expenses so it can assist them to be more careful and more aware of their financial budget and world currencies. They also can help users to easily know about details of their financial statements and can make them feel useful since they can contribute to their country.

Other than managing their financial statement, this website can also be useful toward normal people since we have two practical options. They can choose in which category they actually are. This also can help customers to get what they want and not wasting on making mistakes since we are going to explain further on our websites. More information and details is going to be added as a guide for new users to avoid confusion when using websites. Lastly, we will also provide a feedback button to help us improve our websites.

## 5. CONCLUSION

In conclusion, “BudgetBuddy Base” aimed to help people such as OKU’s person on planning their finances . Our idea started from our observation that OKU’s people don't have enough information about financial planning so they will be unable to manage finances wisely. One of the impacts from this situation is that some of them don't have savings because they don't know how to save money wisely. So by using “BudgetBuddy Base” these people will learn how to save their money, they also can track their money transactions so they know where their money is spent mostly and they will know how to make a money budget for himself. We believe that “BudgetBuddy Base” will help these people a lot in managing their money well.

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