

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

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**MELAKA INTERNATIONAL INTELLECTUAL EXPOSITION 2024**

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

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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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	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>

## **Empowering Your Financial with Ultimate Financial Companion**

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### **Abstract**

In today's fast-paced financial landscape, managing personal finances efficiently remains a daunting challenge for many. Traditional methods often lead to errors, delays, and incomplete insights which hamper effective decision-making. This project proposed a groundbreaking innovation to revolutionize financial personal management and expert guidance through an integrated mobile application. An application combines users' bank accounts, allowing for automated cash flow control by synchronizing real-time bank transactions. Furthermore, it has a unique ability to scan receipts and automatically detect where they come from and which category to facilitate efficient record management and expense monitoring. An important feature of the application is its capacity to produce comprehensive financial statements, offering users a comprehensive overview of their financial situation. The inclusion of advanced ratio formulas and the option for expert consultations elevate users' ability to evaluate and optimize their financial health effectively. It also allows users to create transaction limit reminders to encourage smart spending habits. To augment users' financial knowledge, the application provides workshops and webinars on several aspects of financial planning. Customers also may access a carefully selected assortment of electronic books related to finance, such as budgeting, investing methods, and wealth management. This application is a breakthrough in financial management technology, providing users with a wide range of tools and resources to enhance their financial well-being.

**Keywords: Financial statement, financial planning, budgeting, financial management**

## **1. INTRODUCTION**

Properly managing personal assets has become a major issue, with old approaches prone to mistakes and delays. This proposal recognises this critical need and provides a revolutionary solution to transform money, personal management, and professional coaching via an integrated mobile app. This application seamlessly integrates customers' bank accounts, enabling automatic cash flow management via real-time transaction synchronization. Furthermore, its advanced receipt scanning capability automates categorization, enhancing record management and spending monitoring. A key feature is the ability to create complete financial statements, which offer users a comprehensive picture of their financial condition. Users may efficiently assess and enhance their financial health by using novel ratio computations and professional consulting options. Furthermore, the app promotes responsible spending by displaying transaction limit alerts. The website offers courses, webinars, and a curated collection of finance-related electronic literature to assist users in improving their financial literacy. This product represents a significant advancement in financial management technology, offering users a comprehensive toolset to assist them in enhancing their financial well-being. Moreover, This app creates Financial consultation is the process of receiving professional assistance from finance specialists in order to make educated choices regarding wealth management, investments, and financial planning. These experts are knowledgeable on various financial topics, including budgeting, investing, retirement planning, tax management, and risk assessment. They give personalised advice based on their customers' specific situations.

## **2. OBJECTIVE**

The goal is to transform personal financial management by delivering a complete mobile app that easily links with clients' bank accounts, enabling real-time transaction synchronisation and enhanced receipt scanning for automatic categorisation. Next, our mission is to provide customers with comprehensive financial statements, unique ratio calculations, and expert consultation services to help them improve their financial health and encourage responsible spending. Furthermore, we want to improve financial literacy via educational materials such as courses, webinars, and curated finance-related e-books, giving consumers a comprehensive toolkit for maximising their financial well-being. By providing complete tools for optimising these finances, we aspire to empower people to navigate the complexity of personal finances effectively and achieve long-term financial prosperity. This application also works as a

provider for individuals and businesses, providing them with professional assistance and personalised advice from finance specialists, enabling them to make informed decisions regarding their finances.

### 3. NOVELTY & INVENTIVENESS

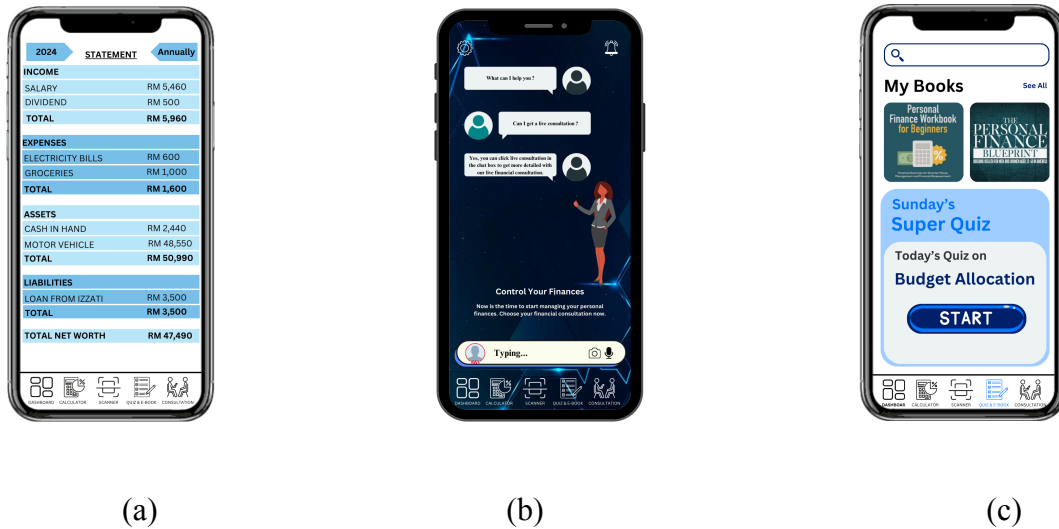


Figure 1: a) Financial Statement b) Consultation and c) Quiz and E-book

This application is unique because of its ground-breaking features, as seen in Figure 1. Firstly, the application's receipt scanning feature goes beyond convenience by automatically categorizing expenses and managing records. It saves time and educates users about their spending habits, enabling them to identify areas for improvement and better budgeting. Secondly, the application has the ability to automatically generate financial statements after users synchronize their bank accounts with the application so that users know their financial situation. Lastly, the application also has a consultation with an AI, quizzes, and e-books related to finances in one application, which is an invention to the market application.

#### 4. PRACTICALITY & USEFULNESS

This project aims to transform how people handle their money through a mobile application, especially for those struggling with financial management. This application provides advanced ratio calculations and expert advice to help users understand and enhance their financial well-being. It also includes alerts for transaction limits to promote responsible spending. This innovative application represents a significant advancement in financial management technology by offering users various tools to improve their financial health. It provides convenience, real-time tracking, and insights into spending habits, enabling users to make informed financial decisions. Features like goal setting and customizable budgeting empower users to manage their money better, improving their financial health and peace of mind.

#### 5. CONCLUSION

In conclusion, this new mobile app is a game changer for managing personal finances. It links with clients' bank accounts, tracks your spending in real-time, and offers expert advice. Plus, it helps you stay within your spending limits and provides educational resources to boost your financial knowledge. It has features that are easy to use, like goal-setting targets and budgeting tools, and it puts you in control of your money. Ultimately, it will pave the way for better financial health and long-term prosperity for your personal finances.

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