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"Empowerment of Special Meeds through Invention & Innovation"

# 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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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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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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	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;
- 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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#### **One Stop Maintenance App**

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#### Abstract

One Stop Maintenance App is an application that could help students who live in rented houses if they have a problem with some maintenance. Users can locate a variety of services on it, such as painting and furniture repair, plumbing, electrical, and wiring repairs, as well as house maintenance services (1). They could book an appointment through our apps. The issues arise when students delayed or unaddressed the maintenance requests and had difficulty in tracking requests. Thus, there could be inefficient communication between students and maintenance staff. For instance, maintenance staff probably has a pack schedule therefore the customers need to book an appointment so that it would not clash with another customers. Above all, dissatisfaction with living conditions could arise and cause the staff to get lower rates and bad reviews from the customers.

#### Keywords: Student, Maintenance, Application, Malaysia

#### 1. INTRODUCTION

One Stop Maintenace app is all about making life easier especially for students that live in rented house. We understand that living in a rented house can sometimes be hard, especially when things need fixing. That is why this app will save students' hassle and time of repairing the damage. Instead of making phone calls to their landlord, they can simply book for an appointment through the app. Once students have already booked an appointment, the app will take care of the rest. We also will make sure things get fixed quickly. Students do not have to wait forever for someone to come and take care of the problem. Plus, it can save students and their landlord time and money because by fixing things fast, the damage does not turn into bigger and more expensive issues. We keep track of all the repair requests and what's been done about them. This way, everyone

gets the same help, and nobody feels left out. Our aim is also to build trust and make sure everyone feels like they are being looked after properly. We want every student renting a place to feel happy and respected in their home.

#### 2. NOVELTY & INVENTIVENESS

In the bustling landscape of student housing, the demands of maintenance often clash with the hectic schedules. Enter the innovative realm of maintenance apps tailored specifically for student tenants, offering a novel solution to the age-old challenges of upkeep and repair in rented accommodations.

At its core, the novelty of such an app lies in its seamless integration of technology with the practicalities of everyday student life. Unlike generic maintenance platforms, these apps are finely tuned to cater to the unique needs and preferences of student renters, offering a host of inventive features aimed at simplifying the maintenance process while enhancing user experience.

One of the key features distinguishing these apps is their user-friendly interface, designed with the busy student in mind. Intuitive reporting systems allow tenants to swiftly notify any issues, from leaky faucets to malfunctioning appliances, with just a few taps on their smartphones. This streamlined communication not only expedites the resolution of problems but also empowers students to take an active role in the upkeep of their living spaces.

Moreover, these apps often incorporate innovative scheduling functionalities, enabling users to conveniently book repair appointments at their preferred times. By offering flexibility and autonomy in scheduling, these apps cater to the erratic schedules of students, ensuring that maintenance tasks can be seamlessly integrated into their busy lives without causing undue disruption.

In a nutshell, the novelty and inventiveness of maintenance apps for student renters lie in their ability to seamlessly blend technology with practicality, offering a suite of innovative features designed to simplify the maintenance process while enhancing user engagement and empowerment. By harnessing the power of mobile technology, these apps not only streamline the

upkeep of student housing but also cultivate a culture of responsibility and sustainability among young renters, paving the way for a brighter future in the realm of rental living.

#### 3. PRACTICALITY & USEFULNESS

One Stop Maintenance application is expected to provide solution to the non-resident student UiTM Alor Gajah, Melaka that rent house outside the campus if unexpected things happen. Various maintenance services provided such as plumber, wiring, cleaning house services, cooking gas supplier and other services which easily to get access when they need. To acces this application users can visit to our website https://www.jotform.com/app/240903975374464 or can directly scan the barcode shown. Besides, for quick and easy access, just add this One Stop Maintenance application on home screen of your smartphone or laptop. This application is a user friendly, users just need to fill in the appointment request form provided in the application to book appoinment for services needed. Information section also have being provided to make easier for users to contact us via whatsapp or call if have any enquiries. Our customers is our priorities. We will assist users to reach out the suitable maintenance service person who is guaranteed in terms of work quality and also at a reasonable price. It could prevent students from becoming victim of fraud from a few maintenance service persons who are less responsible. We will manage as best as possible to provide comfort and convenience to users. In addition, we will solve problem faced by students as soon as possible to reduce student stress and inconvenience. Thus, we hope it can facilitate the daily affairs of students by saving their time to get maintenance service informations

#### 4. CONCLUSION

Every student renting around Alor Gajah, Melaka, must download our app, One Stop Maintenance App. This is because this application facilitates the affairs of students facing problems in their rented houses. In addition, this application is user-friendly, and the price we offer is reasonable. We guarantee that our application will not be scammed, and we also prioritize the safety of our customers. Therefore, we will ensure our users get the best and safest maintenance person.

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