



International Teaching Aid  
**Competition 2023**

Reconnoitering Innovative Ideas in Postnormal Times

**iTAC**

**2023**

**iTAC 2023**  
**INTERNATIONAL TEACHING AID COMPETITION**  
**E-PROCEEDINGS**

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Cover Design : *Asrol Hasan*

Layout : *Nurina Anis Mohd Zamri*

eISBN : 978-967-2948-51-3

Published by : Universiti Teknologi MARA Cawangan Kedah,  
08400 Merbok,  
Kedah,  
Malaysia.

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## **PREFACE**

iTAC or International Teaching Aid Competition 2023 was a venue for academicians, researchers, industries, junior and young inventors to showcase their innovative ideas not only in the teaching and learning sphere but also in other numerous disciplines of study. This competition was organised by the Special Interest Group, Public Interest Centre of Excellence (SIG PICE) UiTM Kedah Branch, Malaysia. Its main aim was to promote the production of innovative ideas among academicians, students and also the public at large.

In accordance with the theme "Reconnoitering Innovative Ideas in Post-normal Times", the development of novel ideas from the perspectives of interdisciplinary innovations is more compelling today, especially in the post-covid 19 times. Post-pandemic initiatives are the most relevant in the current world to adapt to new ways of doing things and all these surely require networking and collaboration. Rising to the occasion, iTAC 2023 has managed to attract more than 267 participations for all categories. The staggering number of submissions has proven the relevance of this competition to the academic world and beyond in urging the culture of innovating ideas.

iTAC 2023 committee would like to thank all creative participants for showcasing their innovative ideas with us. As expected in any competition, there will be those who win and those who lose. Congratulations to all the award recipients (Diamond, Gold, Silver and Bronze) for their winning entries. Those who did not make the cut this year can always improve and join us again later.

It is hoped that iTAC 2023 has been a worthy platform for all participating innovators who have shown ingenious efforts in their products and ideas. This compilation of extended abstracts published as iTAC 2023 E-Proceedings contains insights into what current researchers, both experienced and novice, find important and relevant in the post-normal times.

Best regards,

**iTAC 2023 Committee**  
**Special Interest Group, Public Interest Centre of Excellence (SIG PICE)**  
**UiTM Kedah Branch**  
**Malaysia**

## DIGITAL SAVING MACHINE

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### ABSTRACT

Saving is an important and essential aspect for everyone to have a secure financial future. Saving money requires discipline of setting aside money in one special place and it requires patience and vision of what that money is for. With Digital Saving Machine, your saving experiences will have less limitations and helps users to have discipline in saving money. The machine is built with a touch screen with its built in app for people to customize their saving folder. This machine is used for saving money to reach certain goals. The objectives of this machine are to attract people making their own savings, let people have the convenience of saving personally, and help users to have discipline in managing money. We added some new elements such as digital systems similar to ATM or CDM machines so that users can easily estimate their savings amount. Furthermore, this system will also warn the user if there is an error or withdrawal before reaching the target. The final result will be determined automatically, and a system-wide indicator for performance level will appear. It also provides users with features that enable them to save their personal money at home without worrying about safety. This is because they have a very strict system which is provided with face recognition and a pin to be set up. Thus, this helps to minimize time taking, make people trust the system and increase people to make saving for their own at home. In conclusion, this machine could help many users out there to be more disciplined in saving and managing money

in the future. With its strict system, guaranteed safety and automatic counting money features, this innovative piggy bank will definitely exceed the rivals in terms of quality and usefulness.

**Keywords:** Saving, goals, digital, safety, disciplined

## **BACKGROUND**

Digital saving machine is an innovation and improvement for easy access to saving money at home. It is like having a mini personal Cash Deposit Machine (CDM) at home and easy to use. It could be used widely in any household to encourage people to save more into their future. The machine is built with a touch screen with its built in app for people to customize their saving folder. The folder is meant for creating a saving's name which is emergency fund, Samsung Z- Flip, or vacation saving.

Digital Saving Money is used for saving money to reach certain goals. The machine is easy to use and could cash out until the saving has reached its limit we have set except for a few accounts such as emergency funds. For example, if someone is saving to buy a phone for RM3000, but wanting to cash out even if it's under RM3000, the person cannot cash out the money yet until the goal set by the owner itself. This is to prevent people from cashing out money numerous times than cash in the money.

## **PROBLEM STATEMENT**

The problems occur when it comes to saving money, many people are not disciplined in saving money. Some will grab a little from their savings and spend it. This leads to failure in saving as the money they saved will eventually decrease by time. Next, most people lack savings goals. As a result, they spend most of their savings with stuff that simply had no meaning and purpose. Savings goals are simpler to accomplish when you have a specific objective in mind, just like any other goal. As a result, you should make every effort to create a goal for the money you are saving. The third problem is no defined budget. A budget is important since it enables you to set your spending limit and avoids overspending. With our digital saving machine, you can set up your defined budget and start saving until the amount has reached your target. Last but not least, saving awareness is still lacking. With a digital saving machine, it is an effective way to introduce to children the importance of saving. It may encourage them to consider future purchases even if they are not currently saving up for anything in particular.

## **OBJECTIVES**

The objectives of this Digital Saving Machine are to attract people making their own savings. Other than that, we want to let people have the convenience of saving personally and help users

to have discipline in managing money.

## **NOVELTY**

Digital saving machine is used as one of the tools to keep money as savings. It is a personal digital piggy bank that allows users to be disciplined in saving. It allows users to keep money secure at home without having to go to the bank. We added some new elements such as digital systems similar to ATM or CDM machines so that users can easily estimate their savings amount. Users can set their goals and save until they reach their targets. This system also allowed users to focus on certain objectives until they received the outcome. Furthermore, this system will also warn the user if there is an error or withdrawal before reaching the target. The final result will be determined automatically, and a system-wide indicator for performance level will appear.

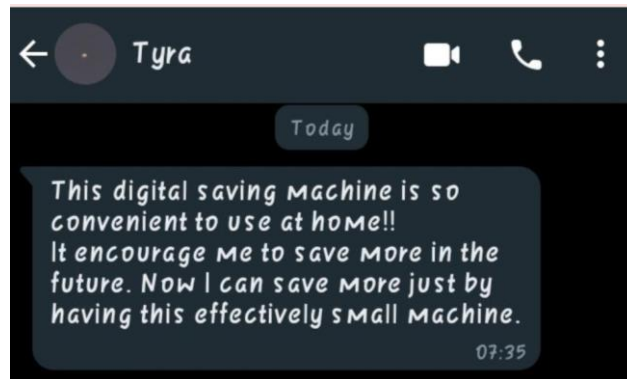
## **COMMERCIALIZATION POTENTIALS**

Our Digital Saving Machine is designed to be suitable for all ages, from young to old. This is because we want to apply the nature of saving in the life of the community. The system we create is also user-friendly where users of all ages are easy to understand and use. This can attract users to use our products instead of keeping their money in the bank. Our product has the potential to be welcomed by users because in this modern age, users are more interested in things that make things easier for them. So, this digital saving machine helps them to save money easily and safely along with reaching their target in saving.

## **BENEFIT TO COMMUNITY**

The Digital Saving Machine provides users with features that enable them to save their personal money at home without worrying about safety. This is because they are able to save their time because they don't need to make a physical book to separate their savings or go to the bank to save their money safely. This machine also has a very strict system which is provided with face recognition and a pin to be set up. In this machine, users can save their money separately in one place with a safety system like Automated Teller Machine (ATM) without going out to the ATM. Thus, this helps to minimize time taking, make people trust the system and increase people to make saving for their own at home. Therefore, this machine can be used by all generations without worrying them to take the money before achieving the target easily or has no guaranteed safety.

## FEEDBACK FROM COMMUNITY



**Figure 1.** Feedback from communities.

Figure 1 shows that we have received positive feedback from one of the communities. It is said that the digital saving machine is convenient to use, especially at home. This digital saving machine innovation will help clients in saving money effectively in their own surveillance. It is because the savings machine is under the owner's watch since the machine is for home purchase. It is like having a mini ATM at home but conventional. Next, since the money is only accepted money to be kept in, not cash out, the client will have no power to get the saving money back out unless the client wants some help from the emergency fund. This also helps them to keep saving without having to be wasteful. Another feedback from the community is that the machine is easy to handle with a built-in keyboard with alphabet with numbers. In conclusion, it also encourages them to save more in the future and while having this conveniently small saving machine will motivate them to save more frequently.

## CONCLUSION

In conclusion, this Digital Saving Machine could help many users out there to be more disciplined in saving and managing money in the future. With its strict system, guaranteed safety and automatic counting money features, this innovative piggy bank will definitely exceed the rivals in terms of quality and usefulness.

## ACKNOWLEDGEMENTS

We are really grateful because we managed to complete our International Teaching Aid Competition 2023 (iTAC 2023) within the time given. This assignment cannot be completed without the effort and cooperation from our group members, Nurialiah Binti Yahya, Naimah A'milin Binti Abd Razak, Nur Izzatul Akma Binti Mohd Khazairi and Nurul Ain Amiesya Binti Dzulkarnain Goh. We also sincerely thank our advisor of this competition, Puan Nur



Hidayah Binti Zaini for the guidance and encouragement in finishing this assignment. Last but not least, we would like to express our gratitude to our friends and parents for the support and willingness to spend some time to help us give ideas.

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e-proceedings

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e ISBN 978-967-2948-51-3



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