



@-PROCEEDING

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VIRTUAL INTERNATIONAL EDITION

In conjunction with







CREATIVE INNOVATION CARNIVAL (CIC) 2021

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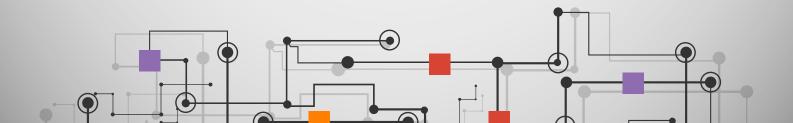


e-Proceeding

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VIRTUAL INNOVATION CHALLENGE (INTELLIGENT2021)





CREATIVE INNOVATION CARNIVAL (CIC) 2021



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EARTHCARE APPS DEVICE

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Highlights: Our team developed the Earth Care Apps device, which is an Apps technology device designed to help outsiders recycle unwanted items. We use the concepts of redo, reuse and resale. This concept can enhance recycling activities, and produce items or tools that can be sold in Earth Care Apps from these recycled materials, and the sales proceeds of recycled items will be donated to those in need. In addition to protecting the environment, we can also maintain the welfare of communities in need and raising public awareness of this recycling activity. We also carry out charity work.

Key words: Recycle, Redo, Reuse, Resell, Donation, Waste Reuse

Introduction

The creation of the app of Earth Care is to help the people in Kelantan. Earth care is an app that can help reduce garbage and protect the earth. We use the concept of redo, reuse, and resell. Besides, we also make this Earth Care apps to become a shopping app. We will sell the items that can still be used.

Content

Description of your innovation

The concept of Earth Care is redo, resell and reuse in an application which is a free location-based mobile application that helps the customer across State of Kelantan to recycle their unused item. Our center will receive customer requirements and drive to their designated location as well as pick up the recycled item. We will recycle the unusable items and redo them into usable things as well as selling them. An innovation adding in Earth Care, an online shopping platform that sells the item which is still be able to use and item that we redo using the recycled items that we received from the customers. It is a way to reduce waste and reduce the generation of garbage.

Background of the innovation

The launch of this Earth Care apps is to raise the awareness of people to care for the earth. It is because the garbage that humans produce has been harmful to our environment for a long time. The garbage that generates too much by humans is unable to be disposed of in a sustainable manner. Our seas and landfills are overflowing with waste that is not biodegradable or cannot be recycled adequately. People continue to generate a vast amount of rubbish and fail to properly dispose of it. It will cause environmental pollution as well as puts human health at risk. In order to prevent this from getting worse, we create Earth Care apps to dispose of the recycled items they do not want. Earth Care apps does not only help customers to deal with their unused items but also increase their environmental awareness. Furthermore, it also deals with the unused item in the right way for environmental protection and save the earth.

Why are they important to education?

Earth Care plays a very important role in education. Earth Care can increase people's awareness of how to collect, sort and dispose of materials that can be used as raw materials. It ensures that these materials do not become waste and ultimately damage the environment and allow people to identify habits that contribute to the environment. Earth Care also provides people with the knowledge to reduce waste by using materials that have already been used as raw materials, thereby ultimately reducing pollution. Earth Care raises people's awareness of environmental issues through the form of education, enabling people to further study sustainable options and change their negative attitudes towards conservation. It is important that people must be educated about the impact of human activities on the environment so that they can take sustainable actions to protect the environment.

Advantages of your innovation Towards Education and Community

Our idea is to increase awareness for a redo, reuse and resell across residents in Kelantan. Not only can enhance the awareness for the environment of the community but also make them have a minimalism living. In addition to this, for the redo and reuse, there is the concept that reduces waste as well as reduces environmental pollution. Recycling education is a critical link in the chain of environmental stewardship and long-term community

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development. It requires everyone in a community to commit to cleaner, more environmentally friendly behavior. Thus, recycling contributes to the well-being of a community. It is because recycling initiatives can help to keep the environment healthy and clean for a community. For the resell, this is one of the concepts that help people in need. It is because some of the profits that is earned from the selling redo items or the secondhand items will be donated to the people who need help.

Commercial value in terms of marketability or profitability of your innovation

Earth Care is buying the recycle item from customer and sell the redo or recycle item at an online shopping platform for the needy. The item has a bargain price, which also allows customers to buy these needed items at a low price. Earth Care solves and packs recycling items more conveniently. The buying and selling platform allow more customers to buy second-hand things instead of buying new things and it reduces the waste of more resources on the planet.

Acknowledgement

Many thanks and well done to the innovative members for successfully contributing ideas in producing an application that is Earth Care Apps. Not only that, we would like to thank our team members who gave their full commitment and enthusiasm while doing this group assignment. Without cooperation, understanding and tolerance, the task of this group cannot be completed in a timely manner.

References

Husna, A., Safitri, A. I., Darmawi, D., Azwar, A., & Reyaldi, F. The Influence of Knowledge and Support of Community Leaders in the Application of 3 R (Reduce, Reuse, Recycle) in Household Waste in Johan Pahlawan District, Aceh Barat District. JournalNX, 6(06), 611-619.

llangovan, P., & Meena, K. (2016). APPs on e-Governance for Solid Waste Management. International Journal of Computer Science Engineering (IJCSE), 5(4), 212.

Kaburuan, E. R., & Heriyati, P. Mobile Apps Business Design and Development for Integrated Waste Management.