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MYECO APPLICATION

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ABSTRACT

Global waste production is projected to increase 70% by 2050 (World Bank, 2018). The international waste issues have worsened exponentially due to various factors such as rapid population and aggressive development. Department of Statistics Malaysia (2019) stated that more than 23 000 tonnes of trash are produced each day in Malaysia alone. The amount of waste keeps on towering as the population and development keep on increasing. In 2019, the recycling rate is only 28.1% despite having a high amount of trash. Moreover, there are various diseases such as typhoid, malaria, and gastroenteritis caused by overflowing waste. Hence, the idea of the MyEco app may solve this detrimental problem. MyEco is an innovative recycling company aiming to make recycling accessible for people with only a click away. The main objective is to promote environmental awareness by encouraging the local community to apply 6R practices: Refuse, Reduce, Reuse, Recycle, Revive, and Responsible (UiTM Green Centre, 2021). This App will be the first 6R awareness application introduced in Malaysia to assist local communities in picking up their reusable items. This 6R awareness App will help locals be active mobile application users to support environmental awareness initiatives and practising a '0' waste lifestyle. Using this application, it will be more convenient because MyEco provides the pick-up service and collects the reusable items at the customer's place instead of sending them to the recycling site by themselves. This application will encourage many people to recycle daily and indirectly to reduce overflowing solid waste. The 6R concept and waste minimisation will also educate youth to be more responsible whilst cultivating a caring attitude to protect the environment. The application is available for both iOS and Android users.

Keywords: eco-friendly, recycle, education, awareness, delivery

INTRODUCTION

MyEco application is based in Kota Kinabalu, Sabah, Malaysia, and it operates as a plastic trash collector and recycled plastic pellet factory. MyEco application is working hard to achieve a pollution-free global policy by converting waste plastic into reusable plastic products. This awareness App aims to be a waste strategy supplier for local and overseas companies by consistently providing efficient services in the recycling plastic sectors. This App is a recycling application that specialises in plastic bags, plastic bottles, and other recyclable garbage. Moreover, it is an innovative recycling company aiming to make recycling accessible for people with only a click away. MyEco application goes along with the Go Green concept to save the earth from pollution and trashes. This application can benefit people by making it easier to send their reusable items to the recycling site. In using this application, people need to pin their location, and the staff will pick up the reusable items in the area.

OBJECTIVE

The objectives of the MyEco application is to minimise excessive levels of plastic pollution and reduce the demand for producing a new plastic item. This method conserves resources and keeps plastic out of landfills and unanticipated locations. Apart from that, MyEco hopes to be known in Malaysia as the most efficient and ecologically responsible waste management business, with regulated, cost-effective, and end-of-life plastics. Many potential customers are known as recycling target audiences for the MyEco application, including homeowners, apartment dwellers, and households. This App also provides exceptional and highest customer services, creates customer loyalty, and provides the best possible quality delivery services available.

NOVELTY

MyEco is a location-based mobile app to increase recycling awareness and overall recycling rates in Malaysia. This application highlights the purpose of picking up the recycled items from the users and sending them to the recycling site. The novelty of this application is that using this application can provide pick-up services and self-delivery to a nearby recycling centre. This App offers one of the most comprehensive recycling databases. It also contains a news section that keeps users up to date on the newest environmental issues and information and recommendations on what can and cannot be recycled.

MyEco app displays the map of nearby recycling centres, instructions, hours of operation, contact information, and other related information. The uniqueness and difference from other applications are that MyEco follows the latest technology using Chatbot. The role of Chatbot in industry 4.0 is likely to involve human and machine intelligence working together toward the same shared goals. Chatbot provides a fantastic 24/7 customer service experience, and an intelligent conversational support platform gives direct answers to customers. It can offer prompt and accessible support to customers by automating up to 75% of inquiries.

SPECIAL CRITERIA

One of the unique features of the MyEco app is that it offers both pick-up service and self-delivery to a nearby recycling centre. MyEco application programme includes a map that allows users and MyEco employees to pin and follow the pick-up position. This App helps users keep track of bin collection days and encourages Malaysians to recycle by giving an alphabetical list of materials and advice on how to dispose of, recycle, and compost them properly. The App also offers practical ways to promote sustainable tourism for a greener future, including recycling knowledge and recommendations and practical ways to promote sustainable tourism for a greener future. MyEco application provides users with a map of nearby recycling centres and the hours of operation, and contact information. Moreover the users can follow the news section that keeps users informed about the latest environmental challenges and communication and advice on what can and cannot be recycled. This application also has a news section with the most up-to-date information on the waste and recycling industries and recycling ideas that users may share with their family, friends, and social networks. Thus, this application is compatible with iOS and Android, and it can instantly access iOS and Android users.

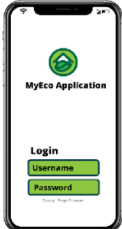
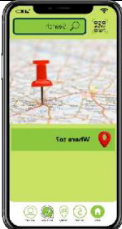
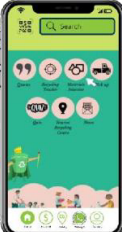
IMPACT

MyEco application has a significant positive environmental impact. Plastic is one of the most polluting materials on the planet. Recycling solid waste can help to reduce waste and prevent contamination of the environment. Burying plastic in the ground is not a long-term solution since it may pollute the soil and water. With the support of MyEco application, it can help make the environment safer and prevent individuals from pollution-related sickness by using recycling techniques. Besides that, recycling helps prevent environmental disruption and damage, which means fewer trees will be cut down, rivers will be diverted, wild creatures will be damaged or relocated, and pollution will be reduced. Manufacturing things out of recycled materials often uses less energy than making them out of new raw materials – sometimes by a significant amount. Recycling saves energy by reducing the amount of energy required to source and process new raw materials; it also creates fewer carbon emissions, which can mitigate global warming. It keeps waste that could release methane out of landfills. Reducing greenhouse gas emissions is critical to reducing carbon dioxide and other greenhouse gases emitted into the environment. Recycling can also stimulate the economy in multiple ways by enhancing employment opportunities. In sum, both the recycling delivery and recycling manufacturing industries benefit from the MyEco application.

PROCESS OF CONSUMING THE APPLICATION

MyEco application will come in handy and make it easier for people to recycle their waste. Since our application is designed to contact us whenever the users want to recycle their waste, it will encourage more people to practice recycling as a habit. This application allows users to contact us to collect their recyclable materials at their respective locations and is available on Android and iOS. The process of consuming the application is shown in Table 1.

Table 1. Process of Consuming the Application

STEP	PICTURE	REMARKS
1	 MyEco Group 9 5.0 ★★★★★ MyEco is an innovative recycling company that aims to make recycling and accessible for people with just a click of a button.	Download MyEco application on and open the Android/iOS
2	 Recycling turns things into other things, which is like MAGIC	Random quotes about recycling will appear while loading the application
3	 MyEco Application Login Username Password	Click "log in"
4	 for you	Click "Set my location" and pinpoint your exact location
5		Click "Select Materials" on the main page
6	 SELECTION OF MATERIALS	Choose the type of materials to be recycled, click on the "selection icon" to proceed with the pick-up items

PRODUCT COMMERCIALISATION

ACKNOWLEDGEMENT

We want to express our special gratitude to our advisor and the i-SPIKE organisers. This innovation competition is our golden opportunity to participate, which also it has helped us to brainstorm innovative ideas, constant research, increase self-knowledge and enhance our learning experiences. A special thanks to the team members who are consistently committed and have contributed significantly to this competition.

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Cawangan Kedah
Kampus Sungai Petani

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