



## KitarLAH

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**Faculty** : Faculty of Applied Sciences  
**Program** : Bachelor of Science (Hons.) Biology  
**Program Code** : AS201  
**Course** : Technology Entrepreneurship  
**Course Code** : ENT600  
**Semester** : 3  
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### Submission Date

21<sup>st</sup> June 2024

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## **1.0 EXECUTIVE SUMMARY**

Nowadays, there is a lot of pollution that causes Earth to become more and more severe. Increase in waste rate in Malaysia also contribute to the pollution. One of the way to reduce the waste rate is by recycling. However, some people do not know on how to recycle properly and some of them also lack knowledge on what items that can be recycle. Therefore, our company, HiddenGen design an online platform application where users can know what type of materials that can be recycle and how to customize the recycle material into something else. There are many recycle apps that exist these days but our apps offer something more interesting for the user such as giving reward and achievements for their contributions by using our app. Besides that, our app using the concept of Augmented Reality (AR) which is the combination the real world environment with generated perceptual information overlaid on top of it. Our app allow users to scan their recycle materials using the app and the app will provide on how and what that recycle material can transform into. For those who like to customize and improvise things but is cost reduction, our app are able to fulfil their satisfaction by just installing this app in their phone. Other than that, our app also provide tracking feature to the recycle place for each states in Malaysia and welfare home nearby if the users want to donate the clothes that they are no longer used. A survey has been conducted by our team members and is being distributed to a few respondents to get their attention to get to know more about our app and how well our app help them in their recycle activity. From the data obtained, there are 30 respondents that aware with recycle but only 6 of them have experience on using recycle apps. Thus, through the creation of our recycle app can make more people getting interest of recycle app and will utilize the app in their recycle life.

## **2.0 INTRODUCTION**

Technology has been widely spread in this era full of modernity and globalization. Technology gives many benefits to its user as it can help people with so many things. According to Britannica, technology is the application of scientific knowledge to the practical goals of human life, or, as it is sometimes referred to, to the modification and control of the human environment. There are so many variety of the use of technology in industries such as for communication, transportation, education and also production. As an outcome of this widely spread technology, there are so many new things created that are able to help people explore and gain more information with this development of technology. This is including the creation of recycle apps that helps people doing recycle and increasing their awareness towards the benefits of recycling.

Technology plays an important role in creating interesting and effective recycling apps in different ways. This is including helping users in education regarding recycle aside from increasing their awareness towards recycle. Technology allows apps to provide educational content about recycling practices and helping users understand the importance of recycling. Besides that, recycling apps also gives convenience for its users as it provide information of nearby recycling centres, reward points and making recycling more convenient and accessible. Furthermore, with the help of Augmented Reality (AR), apps can personalize recommendations and tips based on users' recycle material and helping them to improve their recycling efforts. Technology in the recycle apps enables the apps to provide the real-time updates on the statistics and reports on their environmental impact.

By leveraging these technological capabilities, recycling apps can not only make the process of recycling more engaging and convenient but also contribute significantly to raising awareness and improving recycling rates in communities. Overall, these apps aim to simplify recycling efforts, promote sustainable practices and adapt with a greener lifestyle through accessible technology.

## **2.1 PROBLEM STATEMENT/ISSUES**

There are so many things that can be recycle and some of it can be made into something else such as plastic bottle can be turn into pencil holder or even can replace flowerpot. However, some people does not know how to recycle and what they can recycle. Lack knowledge about recycle make people feel lazy to do it and decide to just throw the things that are able to be recycle. This contribute to the increase of waste rate in our country where every day, Malaysians throw away about 39 078 tonnes of solid waste which equal to about 1.17 kg per person. On average, plastic makes up to 21.9% while paper makes up to 15.3% as the component of domestic waste. Following this kind of situation, authorities urge public to start implementing reduce, reuse and recycle (3R) in their daily life to reduce the waste rate.

Moreover, as people do not know the nearby recycle place, they decide to pile the garbage in the wrong place without sorting the garbage into appropriate categories. This will make it harder for the worker to separate them where it is time consuming and need more energy to do that kind of thing. In addition, people also having a hard time to where they need to donate their unused clothes instead of throwing it which then lead to increasing in waste rate and make the dump place more crowded. Therefore, HiddenGen provided online platform application, KitarLAH which mostly related to recycle with the aid of AR. Our app will help users to gain more information about recycle and allow them to know what to do with the recycle materials instead of throwing it. Besides that, our app also help users to track recycle place nearby and also welfare home to donate the clothes that are no longer used.