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INTERNATIONAL MEGA INNOVATION CARNIVAL **2023**  
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## EcoE

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### ABSTRACT

EcoE is a comprehensive mobile application that simplifies and enhances users' daily routines while promoting environmental responsibility. This all-in-one app combines scheduling, e-wallet, messaging, and eco-friendly features, making it the only app users need for their daily usage. With the scheduling feature, users can stay organized and up-to-date with upcoming events and even set reminders. The e-wallet feature allows for quick and convenient payments while keeping track of expenditures in one place. The messaging feature enables users to catch up with friends, plan trips, and send money effortlessly. EcoE also includes eco-friendly features that make it easier for users to reduce their carbon footprint. The recycling feature helps users locate nearby recycling centers and learn about proper waste disposal. The e-hailing feature encourages ride-sharing, reducing emissions and traffic congestion. In summary, the Eco E mobile application is a sustainable and practical solution to enhance users' daily lives while promoting environmental responsibility.

**Keywords:** Eco E; eco-friendly; mobile application; carbon footprint

### INTRODUCTION

The world is facing a climate crisis. The effects of climate change are already being felt around the world, in the form of more extreme weather events, rising sea levels, and changes in agricultural yields. If we do not take action to reduce greenhouse gas emissions, the effects of climate change will only get worse.

One of the biggest challenges in the fight against climate change is getting people to change their behaviour. People often don't know how to reduce their environmental impact, or they don't think that their individual actions will make a difference.

EcoE is an app that helps people reduce their environmental impact. The app combines scheduling, e-wallet, messaging, and eco-friendly features, making it the only app users need for their daily usage.

### Scheduling

The scheduling feature helps users stay organized and up-to-date with upcoming events and even set reminders. This can help users reduce their environmental impact by reducing the number of last-minute trips and purchases. For example, if a user knows that they have an event coming up, they can plan ahead and walk or bike to the event instead of driving.

## **E-Wallet**

The e-wallet feature allows for quick and convenient payments while keeping track of expenditures in one place. This can help users reduce their environmental impact by reducing the number of paper receipts and credit card statements. For example, if a user uses their e-wallet to make a purchase, they will not receive a paper receipt. This can help to reduce deforestation and pollution from paper production.

## **Messaging**

The messaging feature enables users to catch up with friends, plan trips, and send money effortlessly. This can help users reduce their environmental impact by reducing the number of paper letters and phone calls. For example, if a user wants to send a friend a message, they can use the messaging feature to do so instead of writing a letter or making a phone call. This can help to reduce deforestation and pollution from paper production and energy use from phone calls.

## **Eco-friendly features**

EcoE also includes eco-friendly features that make it easier for users to reduce their carbon footprint. These features include:

**Recycling:** The recycling feature helps users locate nearby recycling centers and learn about proper waste disposal. This can help users reduce the amount of waste they produce, which can help to reduce pollution and conserve resources.

**E-hailing:** The e-hailing feature encourages ride-sharing, reducing emissions and traffic congestion. This can help users reduce their carbon footprint and improve air quality.

**Carbon footprint tracking:** The carbon footprint tracking feature allows users to track their environmental impact and set goals for reducing their carbon footprint. This can help users become more aware of their environmental impact and take steps to reduce it.

In summary, the EcoE mobile application is a comprehensive and sustainable solution to enhance users' daily lives while promoting environmental responsibility. The app's features make it easy for users to reduce their environmental impact, and the app's carbon footprint tracking feature helps users track their progress and stay motivated.

## **INNOVATION DEVELOPMENT**

The EcoE app can be further developed to include the following features:

### **A Social Media Platform**

The app can be developed to include a social media platform where users can connect with each other and share tips on how to reduce their environmental impact. This can help to create a community of people who are working together to make a difference.

**A Rewards Program**

The app can be developed to include a rewards program where users can earn points for taking actions that reduce their environmental impact. These points can then be redeemed for prizes, such as gift cards or donations to environmental organizations. This can help to motivate users to continue reducing their environmental impact.

**A Carbon Offset Program**

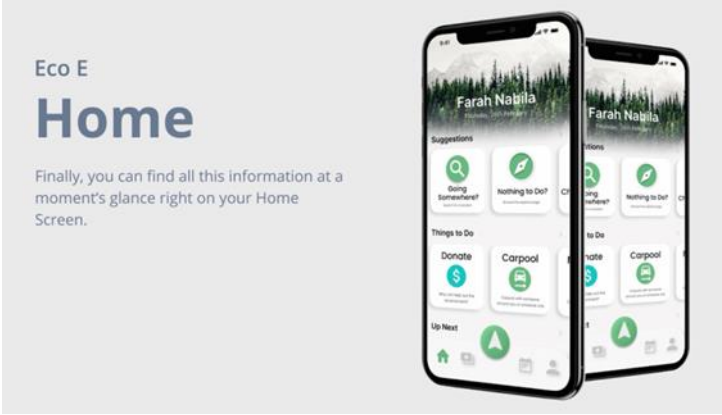
The app can be developed to include a carbon offset program where users can offset their carbon footprint by donating to environmental projects. This can help to ensure that even if users are not able to completely eliminate their environmental impact, they can still make a positive contribution.

**Prototype**

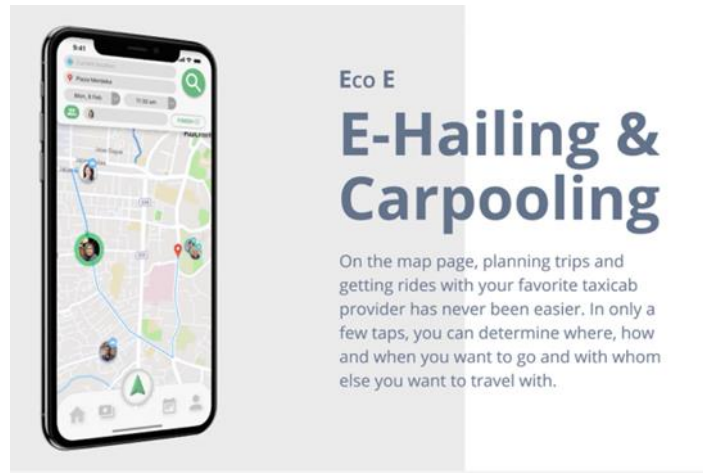
The following is a prototype of the EcoE app:



**Figure 1:** Mockup of EcoE app



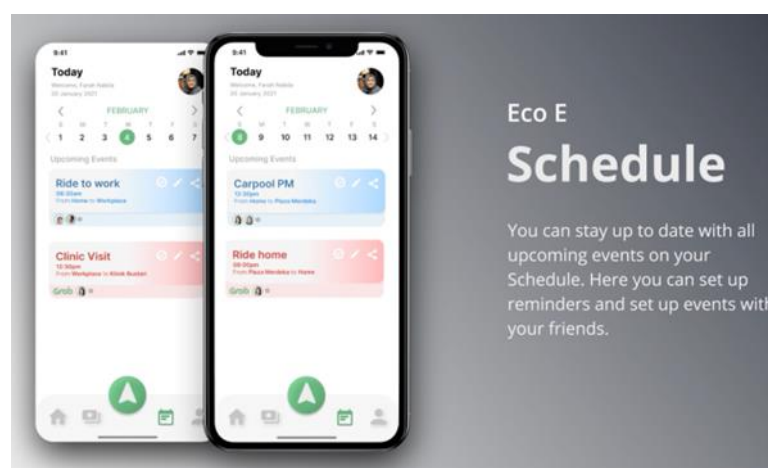
**Figure 2:** Home screen of EcoE



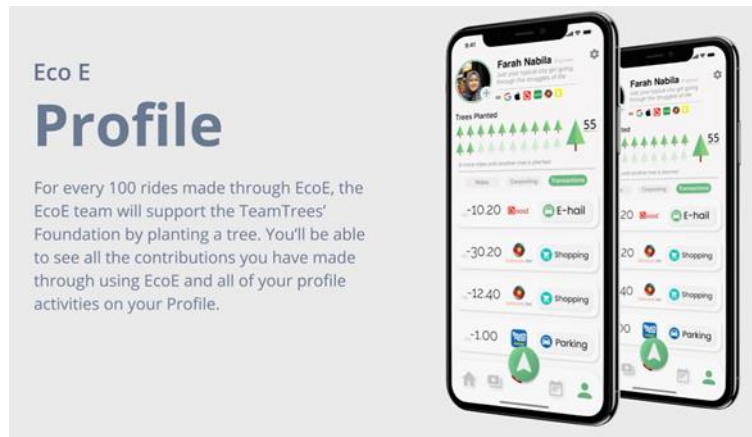
**Figure 3:** E-hailing & carpooling section of EcoE



**Figure 4:** Recycling section of EcoE



**Figure 5:** Scheduling section of EcoE



**Figure 6:** Profile section of EcoE

The app has a simple and user-friendly interface. The main features of the app are located on the home screen. These features include:

**Scheduling:** The scheduling feature allows users to stay organized and up-to-date with upcoming events and even set reminders.

**E-Wallet:** The e-wallet feature allows for quick and convenient payments while keeping track of expenditures in one place.

**Messaging:** The messaging feature enables users to catch up with friends, plan trips, and send money effortlessly.

**Eco-friendly features:** The eco-friendly features of the app include recycling, e-hailing, and carbon footprint tracking.

### **Inventive Features**

EcoE has several inventive features that make it a unique and valuable tool for reducing environmental impact. These features include:

**The social media platform:** The social media platform allows users to connect with each other and share tips on how to reduce their environmental impact. This can help to create a community of people who are working together to make a difference.

**The rewards program:** The rewards program motivates users to continue reducing their environmental impact by rewarding them for taking actions that make a difference.

**The carbon offset program:** The carbon offset program allows users to offset their carbon footprint by donating to environmental projects. This can help to ensure that even if users are not able to completely eliminate their environmental impact, they can still make a positive contribution.

EcoE is a comprehensive and innovative tool that can help users reduce their environmental impact. The app's features make it easy for users to track their environmental impact, set goals, and take steps to reduce their carbon footprint. The app's social media platform, rewards program, and carbon offset program can help to motivate users to

continue reducing their environmental impact and make a positive contribution to the fight against climate change.

## **COMMERCIAL POTENTIAL**

### **Relevance of the Invention**

EcoE is relevant to the problem of climate change. Climate change is a major challenge facing the world today. It is caused by the release of greenhouse gases into the atmosphere, which trap heat and cause the planet to warm. The effects of climate change are already being felt around the world, in the form of more extreme weather events, rising sea levels, and changes in agricultural yields.

EcoE can help to address the problem of climate change by helping users reduce their environmental impact. The app's features make it easy for users to track their environmental impact, set goals, and take steps to reduce their carbon footprint. The app's social media platform, rewards program, and carbon offset program can help to motivate users to continue reducing their environmental impact and make a positive contribution to the fight against climate change.

### **Contribution to New Knowledge, Technology, Environment, or Society**

EcoE contributes to new knowledge, technology, environment, and society in the following ways:

**New knowledge:** EcoE provides new knowledge about how to reduce environmental impact. The app's features help users to track their environmental impact, set goals, and take steps to reduce their carbon footprint. This knowledge can help users to make more informed decisions about their environmental impact.

**New technology:** EcoE uses new technology to help users reduce their environmental impact. The app's features, such as the carbon footprint tracker and the rewards program, are innovative and can help users to make a positive contribution to the environment.

**Environment:** EcoE can help to improve the environment by helping users reduce their environmental impact. The app's features can help users to reduce their carbon footprint, conserve resources, and protect the environment.

**Society:** EcoE can help to improve society by helping users reduce their environmental impact. The app's features can help to create a more sustainable society and make a positive contribution to the fight against climate change.

### **Market Needs and Market Potential**

The market need for EcoE is high. There is a growing awareness of the problem of climate change and a desire to take action to reduce environmental impact. EcoE can help to meet this need by providing a convenient and easy-to-use tool for reducing environmental impact.

The market potential for EcoE is also high. The app can be used by individuals, businesses, and organizations to reduce their environmental impact. The app can be used in a variety of

settings, such as homes, offices, and schools. The app can also be used in a variety of industries, such as transportation, energy, and manufacturing.

### **Interpretation of How the Product Provides the Solution to the User's Needs and Its Marketability**

EcoE provides a solution to the user's needs by providing a convenient and easy-to-use tool for reducing environmental impact. The app's features make it easy for users to track their environmental impact, set goals, and take steps to reduce their carbon footprint. The app's social media platform, rewards program, and carbon offset program can help to motivate users to continue reducing their environmental impact and make a positive contribution to the fight against climate change.

EcoE is marketable because it meets a need that is in high demand. The app is also innovative and can help users to make a positive contribution to the environment. The app can be used by individuals, businesses, and organizations in a variety of settings and industries.

### **CONCLUSION**

In conclusion, EcoE is a comprehensive and innovative tool that can help users reduce their environmental impact. The app's features make it easy for users to track their environmental impact, set goals, and take steps to reduce their carbon footprint. The app's social media platform, rewards program, and carbon offset program can help to motivate users to continue reducing their environmental impact and make a positive contribution to the fight against climate change.

EcoE has the potential to make a significant impact on the environment. By helping users reduce their environmental impact, the app can help to mitigate the effects of climate change and create a more sustainable future.

EcoE is still under development, and there are plans to add new features in the future. These features could include:

- A more detailed carbon footprint tracker
- A wider range of eco-friendly features
- A more user-friendly interface

EcoE is a valuable tool for reducing environmental impact. It is easy to use, innovative, and has the potential to make a significant impact on the environment. The app is still under development, but it has the potential to be a powerful tool for fighting climate change.

Here are some recommendations for future development of the EcoE app:

- The app could be expanded to include more eco-friendly features, such as a water footprint tracker and a waste reduction program.
- The app could be made more user-friendly by simplifying the interface and adding more helpful tips and instructions.
- The app could be made more accessible by being translated into more languages.

EcoE is a valuable tool for reducing environmental impact. With further development, it has the potential to be an even more powerful tool for fighting climate change.

## ACKNOWLEDGEMENT

We would like to express our sincere gratitude to the following people for their invaluable support and contributions in the achievement of developing the EcoE app; Universiti Teknologi MARA, Dengkil Campus, the group members of the project being, Muhammad Amir Dzakwan bin Dzulzalani (Leader), Ameer Yusuf bin Muhammad Randie, Nor Fauzan Madidah binti Fissol, Awangko Emir Irsyad bin Awangko Hamdan, our supportive mentor, Mohd Helmy bin Yusof and most importantly Universiti Teknologi MARA (UiTM), Dengkil Campus provided us with the opportunity to complete in this project. We are grateful for the support and guidance we received from the university. Our group members worked hard and dedicatedly to complete this project. We appreciate their contributions and support. Our mentor, Mohd Helmy bin Yusof, provided us with valuable guidance and support. We are grateful for his help in completing this project. We would not have been able to achieve this milestone without the help of these individuals. We are grateful for their support and contributions. We are proud to present the EcoE app to the world. We hope that this app will make a positive impact on the environment and help to promote sustainability.

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