UNIVERSITI TEKNOLOGI MARA

ISCIIID 2021
The 3rd International Shariah Compliant
Idea, Invention, Innovation & Design Expo 2021

Title of the Product/Project

i-RECYCLER APPS

Group member

1. Emi Normalina Omar
2. Syukrina Alini Mat Ali
3. Nur Atiqah Rochin Demong
4. Siti Noorsuriani Maon
5. Heizal Hezry Omar
6. Husniyati Ali
7. Masrur Mohd Khir

PRODUCT ID
8

ABSTRACT

i-Recycler, aims to create **an integrated platform for the society to hand over their unwanted or unnecessary household items or waste through the system for Reduce, Re-use, Rework, Refurbish, Reclaim, Recycle Remanufacture, Reverse logistics** and so on. Main objectives: **Shari'ah is to preserve and protect the life and well-being of all mankind in this world**. Hence, all acts of kindness towards the environment in terms of safeguarding and protecting the earth and all life within it is highly required in Islam to achieve the main goals of Shariah. Moreover, the new additional feature in this platform will offer unique services for the public to give unwanted or old Quran or Islamic books containing Quranic verses; that need special handling to dispose of. Thus, this innovation will enhance awareness of the people, mainly Muslims, to dispose of the items properly. This platform will also integrate and link with the recycle and garbage collectors, NGOs, second-hand furniture shops, furniture repairs service providers, and others to provide service and collect the items from the specific location of the housing area, such as a mosque. Thus, this enhances proper disposal through an appropriate system and reduces the waste or garbage generated by households that must not throw anywhere and everywhere. The development of mobile technology applications will further enhance this platform to make it more helpful to users, especially the domestic households and waste collectors and the authorities such as local councils and municipalities. This project supports three SDG goals; including SDG 11: Sustainable Cities and Communities, SDG 13: Climate Action, and SDG 15: Life on Land.

INTRODUCTION

The growing importance of a sustainable supply chain towards Green Supply Chain Management is driven mainly by the escalating deterioration of the environment, such as diminishing raw material resources, overflowing waste sites, and increasing pollution levels. **However**, it is not just about being environmentally friendly; it is about good business sense and higher profits. It is also a business value driver and not a cost centre. This concept, known as **i-Recycler**, intends to build an integrated platform for society to hand over unwanted or useless home items or waste via the **Reduce, Re-use, Rework, Refurbish, Reclaim, Recycle, Remanufacture, Reverse logistics, and other systems**. Furthermore, one of **Shari'ah's fundamental goals is to safeguard and defend the lives and well-being of all people on this planet**. To attain the major aims of Shariah, all acts of kindness toward the environment in terms of conserving and protecting the earth and all life within it are highly essential in Islam. Furthermore, the new feature on this platform will provide one-of-a-kind services for the public to donate unwanted or old Qurans or Islamic literature containing Quranic verses require special handling. As a result of this invention, individuals, particularly Muslims, will be more aware of how to properly dispose of items.

METHODOLOGY

This system is a one-stop centre platform that provides users/customers in seeking to find the best proper ways in disposal of Mushaf. As illustrated in figure 1, the rationale for this system is to get input from users such as weight, location, and mushaf. This system also helps users to find the most appropriate and proper way for disposal and recycling. This innovation aims to discover the new applications for users with features and limitations and make suggestions to develop the interface plan further, framework ease of use, and result in new and unique apps for users' satisfaction.

This system also helps users to send their mushaf to specific locations for disposal and also assists the providers to offer collection service to pick up the mushaf. This innovation aims to discover the new applications for users with features and limitations and make suggestions to develop the interface plan further, framework ease of use, and result in new and unique apps for users' satisfaction.

PRODUCT DESCRIPTION

i-Recycler app. "i" in the recycle app stands for Islah which means to improve and "recycle" focuses on Mushaf disposal in a proper manner.

This system is a one-stop center platform that provide all users with information on

−Kiosks for collection center (details of collection center such as address and contact details)

−Pick up points/Collection service (we offer pick up from residential area with minimal charges (with condition))

−Rewards (based on weight and quantity)

−Methods of disposal (based on nature of the mushaf)

−News announcement (sharing information related to activities or competition held)

−Notification (updates and changes related to disposal activities

−Awareness Program (create awareness and educate community)

−Other related information (provide any information related to the services)

This system provides users with information and who are seeking the best way to dispose or recycle mushaf in a proper way.

METHODOLOGY

Figure 1:
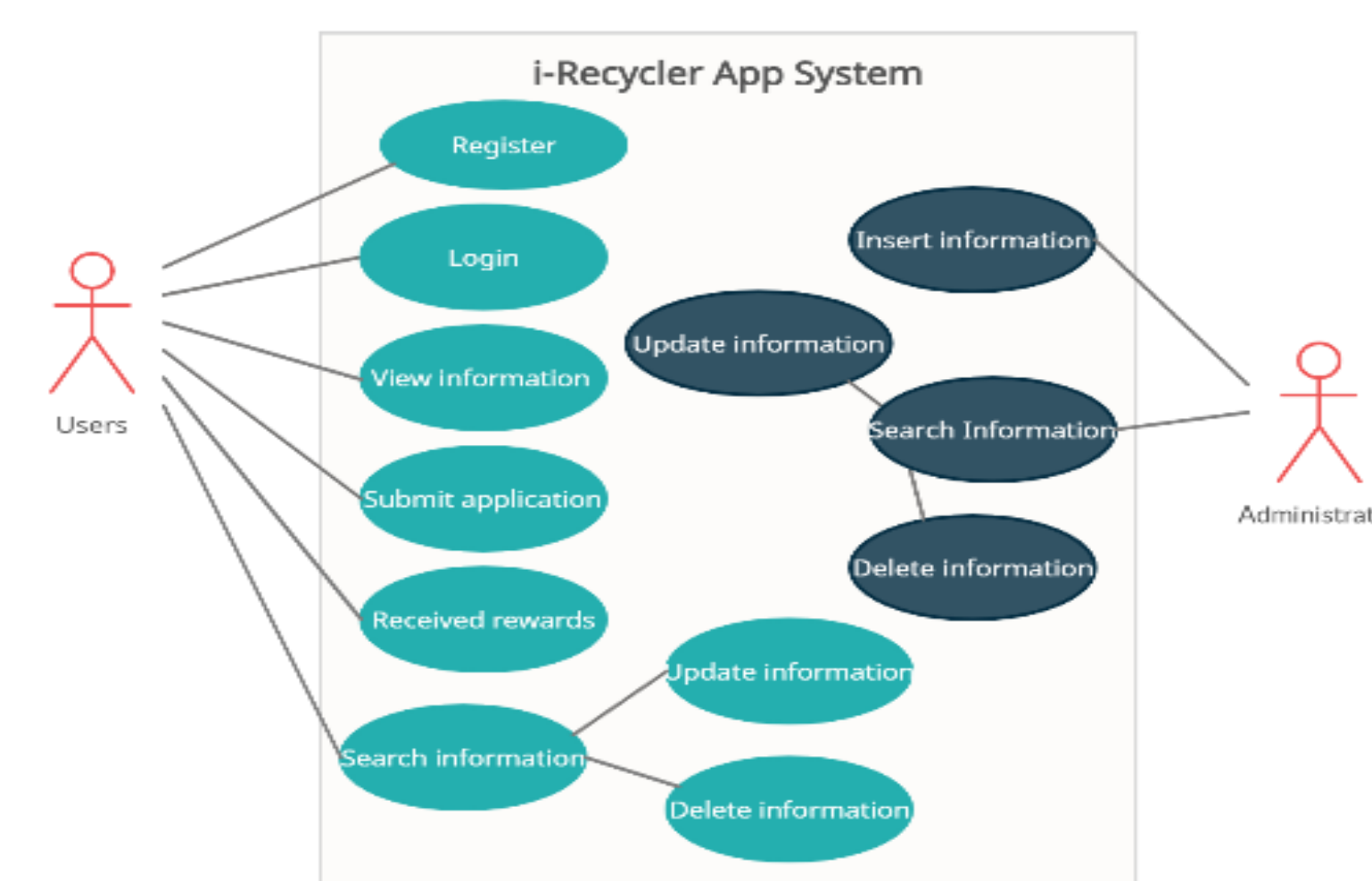i-Recycler App System using
"book chute" technique

Figure 2:
Use Case Diagram of i-Recycler
App System

SHARIAH COMPLIANCES

One of the main objectives (*maqasid*) of Shariah is to preserve and protect the religion of Islam. Since the Noble Quran itself is the primary source of this religion, all efforts towards preserving and protecting its sanctity should be given the utmost priority. On top of promoting and encouraging its memorization, the printed Quran itself which is known in Arabic as the *mushaf*, must also be carefully taken care of as a show of great respect to the holy words of God. Like any other kind of book, the printed copies of the Quran will eventually need to be disposed of due to wear and tear after years of heavy usage.

SIGNIFICANCES

The goal of this innovation is to **enhance the existing recycling** system. This system is a one-stop center platform that provide all users with information on Kiosks for collection center, pick up points/Collection service, rewards, methods of disposal, news announcement, notification, awareness program, and other related information. This system provides users with information and who are seeking the best way to **dispose or recycle mushaf** in a proper way.

NOVELTY/ ORIGINALITY

The service provides a "book chute" technique for the user to drop the mushaf in a proper way. With this facility, it will enable the users to drop the mushaf anytime (24/7).

AWARDS :: PUBLICATION

i-Recycler apps has a potential of commercialization specifically to any Islamic related agencies such as non-government organizations (NGOs), Islamic religious affairs department and offices and others. These agencies can adopt this system in the existing procedure in disposing mushaf and Islamic books that have verses of the Holy Quran.