

E-PUL

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The inorganic waste comes from non-renewable natural resources, such as minerals and petroleum, or from industrial processes. Some of these ingredients are not found in nature such as plastic and aluminum. Some inorganic substances as a whole cannot be broken down by nature, while others can only be described in a very long time. This type of garbage is at the household level, for example in the form of plastic, paper, cardboard and cans. This household waste is then sold to collectors as producers of money. Collectors resell the trash to recycling businesses. Inorganic waste is then recycled into new products, for example plastic waste can be recycled and used as household appliances, children's toys, as well as craft materials. Another example is paper waste that is recycled by making paper pulp first, then made into new items or craft products.

1. Preliminary

Inorganic rubbish in the household, such as plastic, paper, cardboard and cans, is usually sold directly to collectors who sometimes pass in front of our house. Collectors are people who collect recycled inorganic waste, then sell it to recycling businesses. However, in reality there are several problems in selling this household organic waste, including: 1) The difficulty of finding collectors right at the time we want to sell; 2) Prices and scales are sometimes rigged by

collectors; 3) Often the garbage that we want to sell piled up because of the difficulty of finding collectors. These problems become our background in bringing up the idea of the e-pul application concept.

e-pul is a mobile based application that aims to facilitate the sale of household inorganic waste. This application makes it easy for users to directly sell to collectors.

2. Theoretical Basis

Activities to Sell Recycled Inorganic Waste

The activity of selling recycled inorganic rubbish is done as an effort to maintain environmental cleanliness and also as a means to earn extra money. This activity is usually carried out by individuals within the household.

Activities to Collect Inorganic Waste

The activity of waste collection is carried out by collectors as main work. This activity is carried out by looking for organic waste, which is then sold for recycling business. The results of this activity can be fairly profitable, it can be seen from the fact that there are enough people who make this work as a basic job.

3. Research methods

A. E-pul General Description

E-pul is a mobile-based application to facilitate the sale of inorganic waste in households, such as: plastic,

paper, cardboard and cans. The concept of digital startup that we made is more intended for use in households. So, it can be used by anyone who wants to sell inorganic waste that has accumulated in his house. So far, our concept is to enter our digital startup into Playstore and Appstore. So, Android users can download it in Playstore, and Apple users can download it in the Appstore. Because the concept of the digital startup application that we will create is mobile based, this application can be used anytime as long as there are mobile phones and internet networks.

This e-pul application is very practical and easy to use. This application can be used anytime and anywhere because it only requires a mobile phone and internet network. By using this application, users can directly sell inorganic waste to collectors. Users no longer need to wait for collectors who pass in front of their homes, or by bothering to bring inorganic garbage that they want to sell to collectors. By using this application, when the user feels he wants to sell inorganic waste that is in his house, then the user just needs to open this application and the collector will immediately come to the user's home.



B. E-pul Application Concept

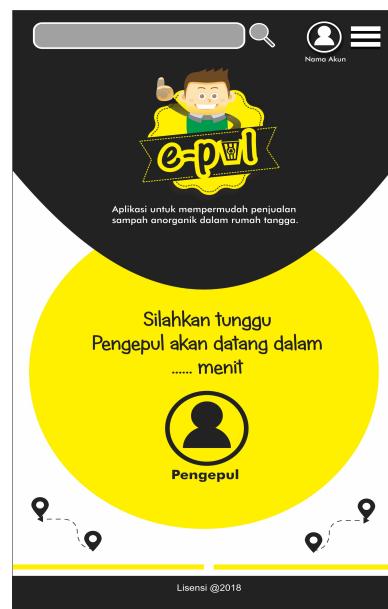
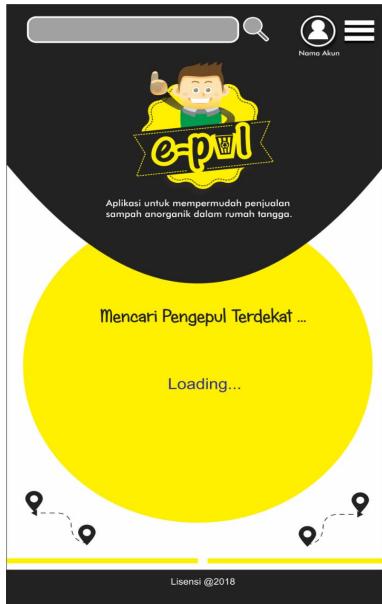
a) From The User Side

The concept of using the e-pul application from the user side:

1. The first step, enter the e-pul application. Click "daftar" to create a new account, and click "masuk" if you already have an account
2. Then, click "jual barang bekas"
3. After that, select recycled inorganic waste for sale. There are 4 choices (prices already listed on the application), namely: cardboard, cans, paper, bottles. Then, click "ok"



4. Please wait a moment, e-pul is looking for the closest collectors



5. When the closest collectors have found, please click "ok"

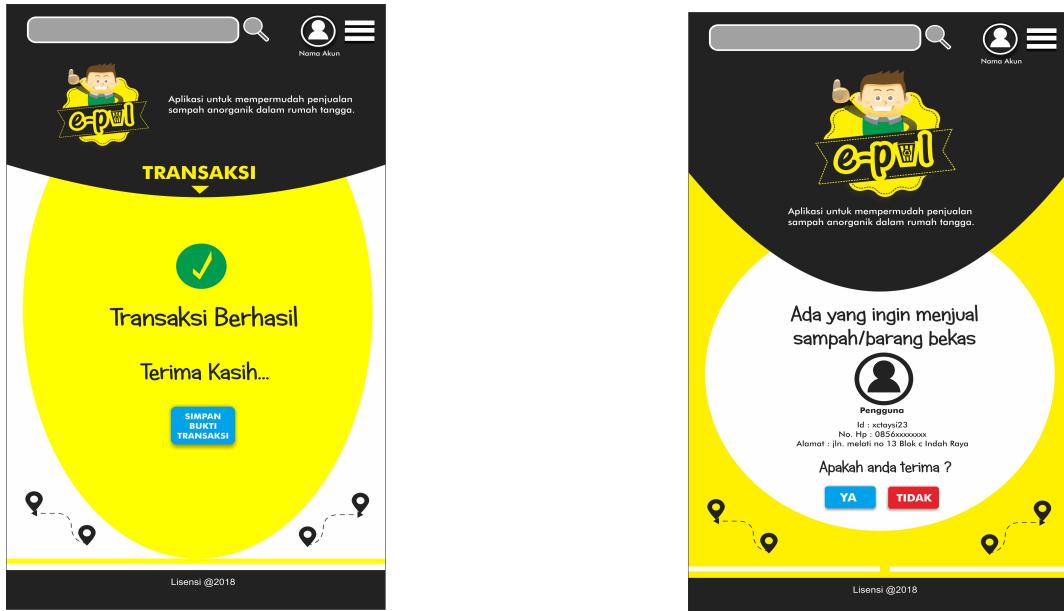


6. Please wait a moment, collectors will come to the user's place in a few minutes

7. If the collector has arrived, a notification will appear

8. After the collectors have finished weighing recycled inorganic waste to be sold, a transaction form will appear on the application. Please read first, then click "konfirmasi"





9. Done, the transaction was successful. Please accept the money from the collectors

b) From The Collectors Side

Collectors register themselves in the e-pul application directly. So, collectors' data will be input directly by us. To enter the e-pul application, collectors must have a balance in advance. Each total transaction will be deducted by 10 percent from this balance. The minimum balance entered is IDR 30,000. Balance payments are made directly or cash by collectors at the time of registration.

The concept of using the e-pul application from the side of collectors:

1. When a user wants to sell recycled inorganic waste, there will be a notification immediately on the e-pul application of the collector closest to the user
2. Then, click "ya"
3. If you have arrived at the user's home, please click "telah tiba" on the application
4. Then, click "ya" to process the transaction
5. The Transaction Form will appear on the application, please fill in the results of the recycled inorganic scales that will be sold by the user. Then, click "ok"
6. Please wait for confirmation from the user
7. Done, the transaction was successful. Please give the money from the sale to the user





4. Closing

Based on the research and discussion that has been conducted, it can be concluded that:

1. e-pul is a mobile-based application to facilitate the sale of inorganic waste in households, such as: plastic, paper, cardboard and cans.
2. e-pul is intended for use in households. So, it can be used by anyone who wants to sell recycled inorganic waste.
3. e-pul can be used at any time as long as there are mobile phones and internet networks.

References

- [1] Fia, 2015, SAMPAH ANORGANIK, [online],(<https://kujalanjalan.wordpress.com/sampah-anorganik/> ,diakses pada 29 November 2018)