# DIAPER MANAGEMENT

**TEAM: GREEN SAVIOURS** 

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### PROBLEM STATEMENT

Disposing of diapers and sanitary napkins is a daily struggle. It's not unusual to find garbage bags filled with diapers and sanitary napkins dumped around waste collection points.

The agencies assigned by them will pick up diapers or sanitary waste as it can't dispose of them effectively. This creates a difficult situation for both residents as well as waste collectors.





# WHAT IS THE SOLUTION?



## **OUR ACTIVITIES**

- Development of disposable diaper or sanitary napkins recycling technology
- Separation of SAP, plastics, pulp from disposed diaper or sanitary napkins
- Development of environmentally-friendly products

## **SERVICES**

- Compose for MySQL
- > IBM . Databases
- ✓ MySQL is a fast
- ✓ Easy-to-use
- ✓ Flexible RDBMS
- ☐ As the central component of the LAMP model, it sports a number of connectors, including Python, PHP and C++ for development needs.
- ☐ MySQL is a popular choice because of its flexibility and vast supported ecosystem.

#### App ID

- > IBM . Security user authentication and user profiles for the apps.
- ✓ Lite
- ✓ Free
- ✓ Financial services validated
- ✓ IAM enabled
- ☐ IBM Cloud App ID allows to easily add authentication to web and mobile apps with zero code changes and no redeploy required.
- setting up infrastructure for identity, ensuring geo-availability, and confirming compliance regulations.
- Instead, enhance apps with advanced security capabilities, such as multifactor authentication (MFA), single sign-on (SSO) and user-defined password policies.

# Payeezy

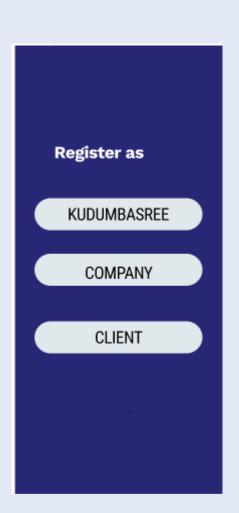
- □ payeezy is the simplest way to accept payments.
- with just a few lines of code, developers can accept credit and debit cards, eCheck, apple pay, android pay, Samsung pay, paypal, loyaity cards and many other payment types in mobile apps.
- eCommerce sites and just about any device that communicates over HTTP.



- ☐ Improve user's experience and reduce bounced sessions by delivering content at record speed and caching content closer to users on he network.
- ☐ Avoid network traffic jams, decrease latency, and optimize the performance of overall cloud solution.
- ☐ Take advantage of superior web/mobile performance and video delivery solutions.

# REGISTRTIONS

- ☐ Kudumbasree registration
- ☐ Company registration
- ☐ Client registration



# DISPOSAL OF DIAPERS

- The client disposing of the diapers or sanitary napkins should first register in this app.
- Then login by using email/id and password
- Then the client has to mark how many diapers or sanitary napkins puts in that basket or weight of the material mark.
- Then entering the location details place and pincode.
- After all the details are uploaded.
- Then dispose of the diaper or sanitary napkins in a prepared basket.



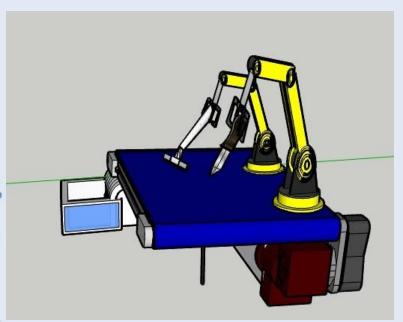
☐ Plastic separation

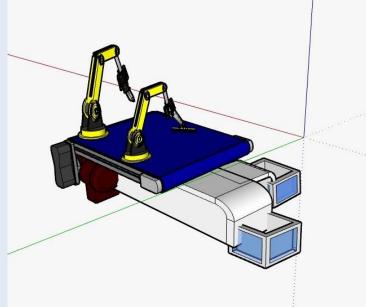
☐ SAP separation

□ Pulp separation

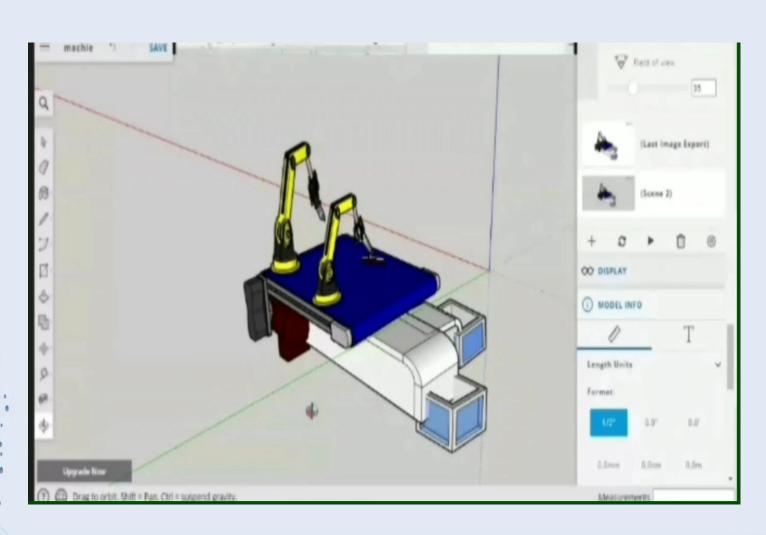
## PLASTIC SEPARATION

- The first step disposed diapers or sanitary napkins are put on to the machine .
- Then scrapping the plastics from the diapers or sanitary napkins.
- after separate the plastic and pulp



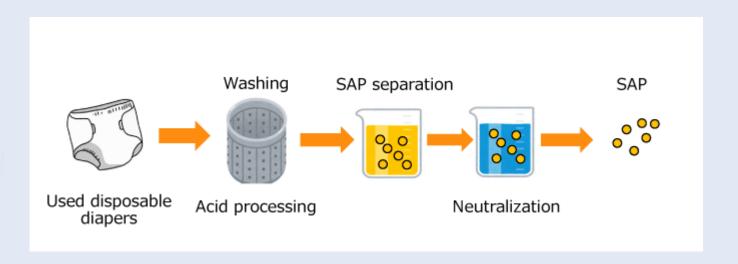


# MACHINE DESIGN



## **SAP SEPARATION**

- Super Absorbent Polymer (SAP) is an important constituent material of disposable diapers or sanitary napkins which has the function of absorbing and retaining moisture.
- In order to recycle used disposable diapers or sanitary napkins, the moisture absorbed by the SAP must be completely expelled and the SAP returned to a state in which it can absorb moisture again.



## PULP SEPARATION

- Our recycling system applies a unique ionization process to the pulp that we extract from used disposable diapers or sanitary napkins by means of cleaning and separation.
- The ionization process destroys the bacteria contained in the excretion. In this way, recycling is able to generate high-quality pulp that is just as hygienic and safe as virgin pulp.
- We also recycle the waste water generated in the cleaning and separation process, thereby making processing more efficient and also reducing the amount of waste water that needs to be discharged.





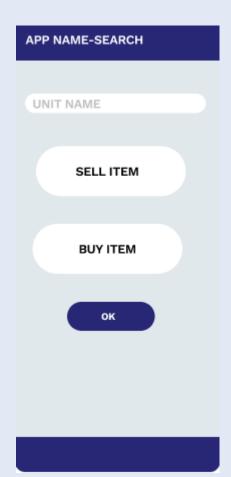


## BUYING AND SELLING

• The Kudumbasree unit has two main functions

• One is to collect diapers or sanitary napkins from clients.

• and the other one is to sell the separated items to companies.



## **BUYING DISPOSED DIAPERS**

#### **CLIENTS**

- Clients should login using their email id and password and enter the amount of the diapers or sanitary pads they have to offer and the enter their location and pincode.
- Then if they want us to collect the diapers or sanitary napkins from their location, they should tick the first option and submit.
- Otherwise if the client wants to drop the item at a particular location, tick the second option and submit.

#### **KUDUMBASREE**

- Kudumbasree units can choose the place where they want to collect the diapers or sanitary napkins from along with the pincode.
- To collect the diapers or sanitary napkins from the a desired location, choose an available location from the list shown.

## SELLING SEPARATED ITEMS

- The machine separates the pulp and plastic from it and then sells the remaining items to the company.
- The Kudumbasree unit uploads the segregated items. At the same time the location of Kudumbasree unit works ,pincode and the unit name are uploaded.
- The companies can access this data after the Kudumbasree unit uploades.

### COMPANY BUYS THE ITEM

- Buy the company needs from the sell items that the Kudumbasree unit uploads.
- The kudumbasree unit sell item is given, then select the required items the company needs and enter the pincode of an area, then the kudumbasree units in that area having those items will be filtered and displayed to be chosen from.
- Then enter the company information-company name and other details. Then the company will be able to contact the kudumbasree unit they will be buying the products from.







