

VYARTH

“BEKAAR” TO “SWEEKAAR”

—

FooBar

THEME WE ARE WORKING ON

Waste Management

In a densely populated country like India, waste management is an issue which stands unresolved. Using technology, we aim to solve the same and “BUILD FOR INDIA”.

Inspiration

INDIA'S RISING MOUNTAINS OF TRASH

GARBAGE GENERATED (tons/day)

Bengaluru



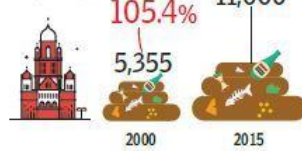
Delhi



Hyderabad

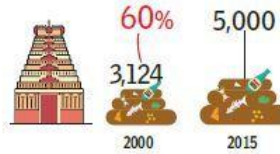


Mumbai



In the last two decades, Indian cities have seen a rising tide of waste that's disposed of in open dumps. Such landfills, often on fire, are only aggravating the pollution problem, contaminating both air and groundwater P8

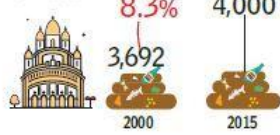
Chennai



Ahmedabad



Kolkata



Source: Central Pollution Control Board

To improve upon and optimize the garbage collection & disposal methods carried upon in our country. To reduce the amount of wastes piled up in the dump yards by efficiently utilizing the wastes. To involve the company and a third party to carry out this whole ideation, henceforth increasing employment and user incentives.

What it does?

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Our website involves a total of 3 steps:

1. Collection of waste from the user. The waste collected is divided in 5 Categories : Paper, Plastic, Organic, Glass, Metal. The users can submit waste that

2. The delivery of the waste from the user to the company where the latter can order the waste materials they want to use/process, right to their doorstep.

3. Utilisation of Waste : The company now, uses the waste by amicably collecting it, profusely processing it and efficiently recycling it.

(For example: A packaging company may require old newspaper/books, an animal farm may require organic wastes and so on.)

How we built it?

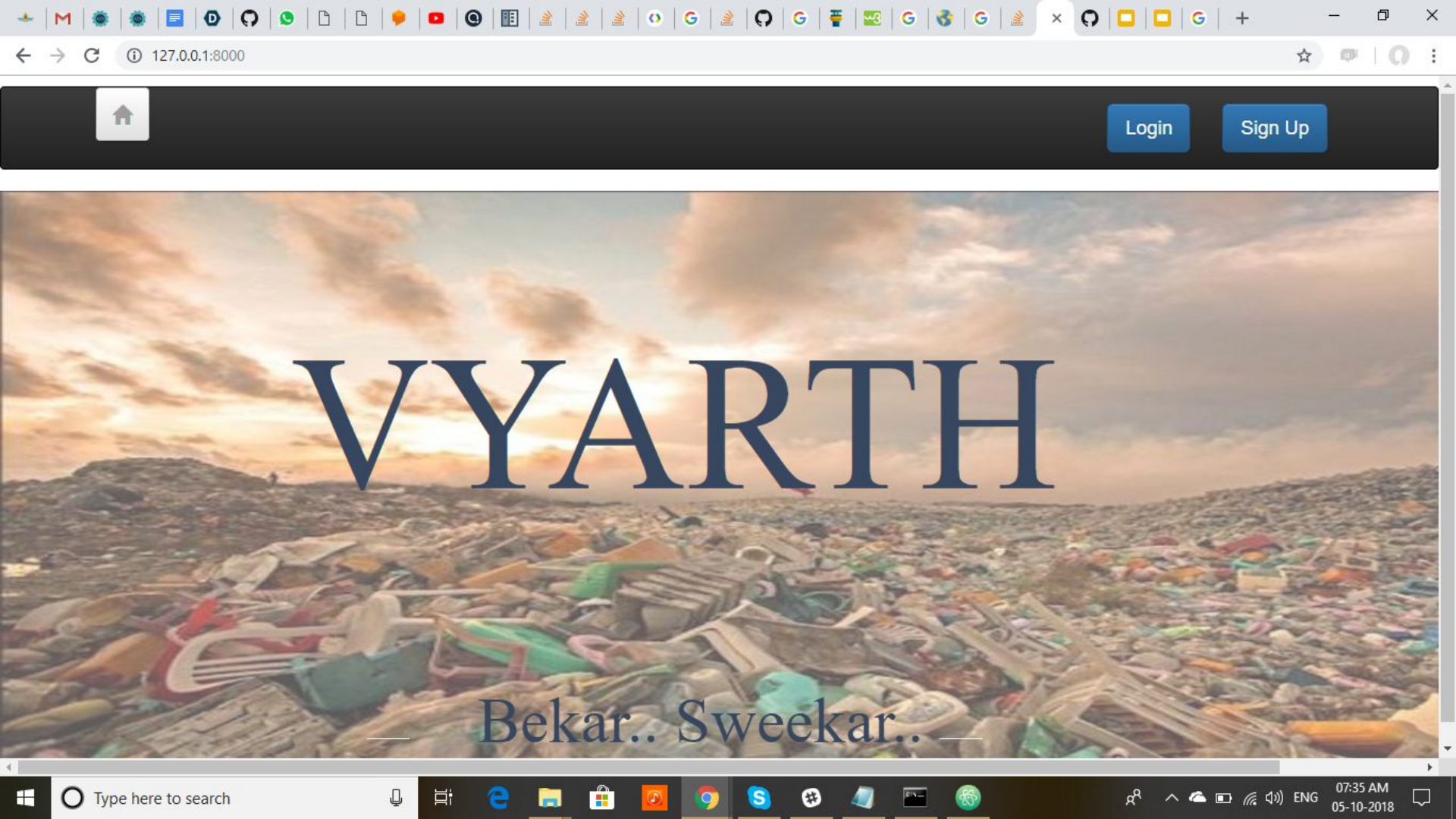
Technologies Used:

1. Django
2. Google API
3. Google Dialogflow

1. The user gathers the waste, segregates it by taking the help of the chatbot 'Samarth Assistant' available.
2. User Registers on our website along with details involving location, weight and type of waste.
3. The amount of collection from different user-cluster is calculated based on the type of waste. The clusters are shown as a list to the company, who further selects what kind of waste they want to process.
4. The waste is collected from users and delivered to relevant companies according to the selected constraints.

Screenshots

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VYARTH

— Bekar.. Sweekar.. —

Please fill the following information to dispose off your waste!

We realise that, generating waste is not in your hands, but appropriately disposing it, is! Kudos on your efforts.

Contact

9868168053

CommunityName

Industry

Typeofwaste

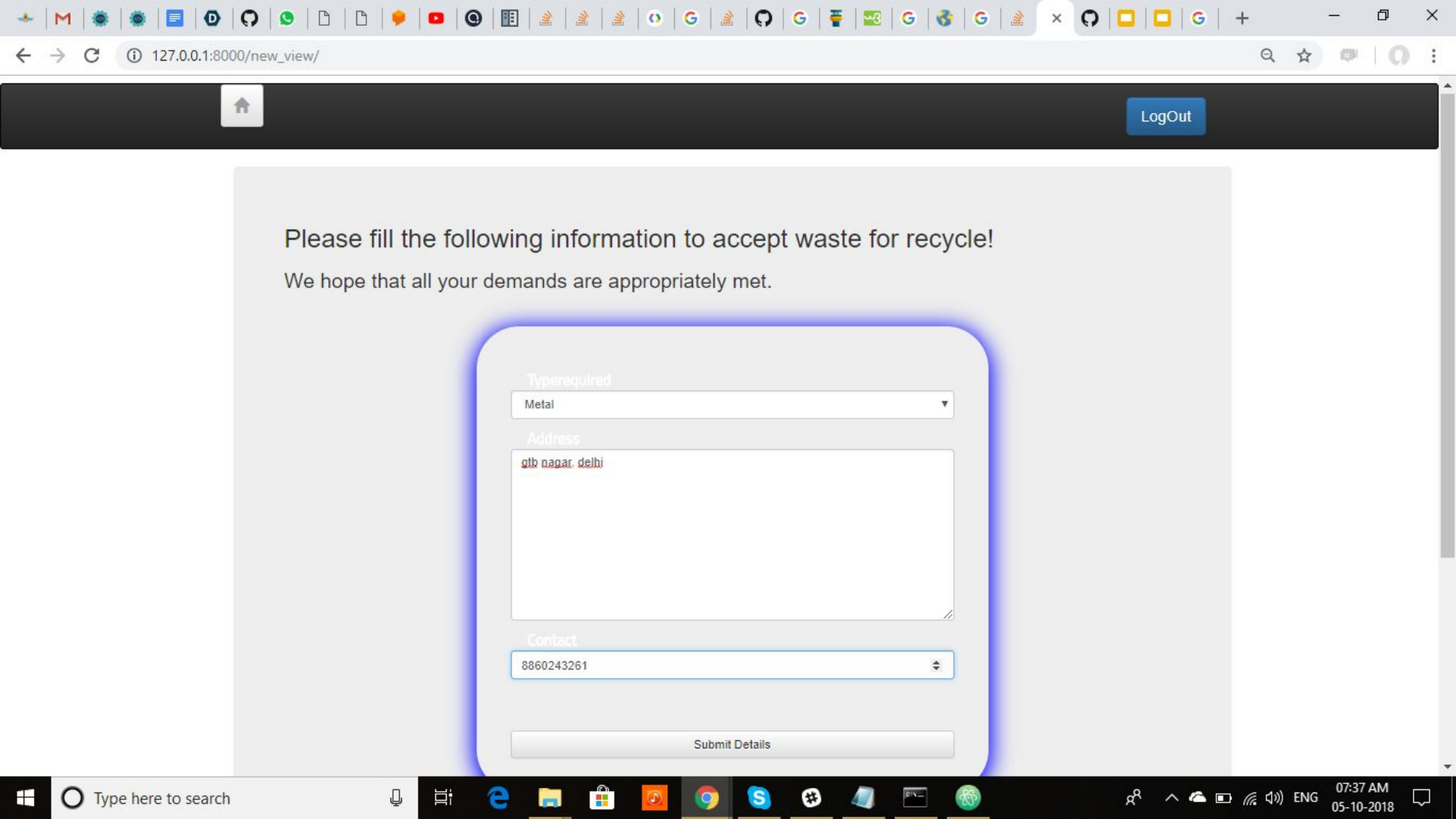
Metal

Quantityofwaste

4

Address

kirti nagar, delhi



Please fill the following information to accept waste for recycle!

We hope that all your demands are appropriately met.

Type required

Metal

Address

gltb nagar, delhi

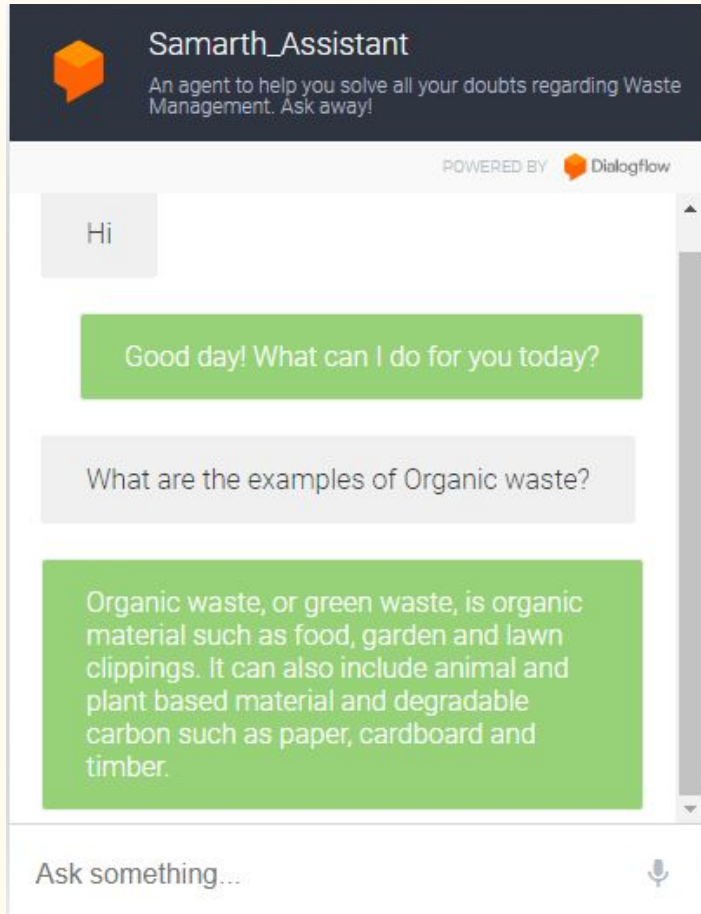
Contact

8860243261

Submit Details



subhash nagar, delhi 22 11.777681028589162



A Chatbot using Dialogflow has been provided to solve all doubts/queries regarding Waste Management, Recycling Techniques (DIY), Waste Segregation and so on.

Business Model

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- The idea can be extended to involve a business model by using Paytm API. This could be also considered as one of future perspectives of our model.
- The user on generation of a particular type and amount of waste would receive a small amount of cash back on his/her Paytm account.
- The total amount involving the distance, number of users is calculated.
- This is the amount the company is required to pay to the delivery agency(us). The services provided to them by us is door-delivery of potential raw material to companies/industries/organizations.
Hence the original idea can be extended to a self sustaining business model.

Diagrammatic Explanation

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Book us through
Web App



Keep your recyclable
waste segregated



Our Pick Up
Agent Arrives



Verifies Electronic
Weight Manually



Pays you via
Paytm/Cash

FUTURE SCOPE OF IMPROVEMENT

1. The future aspect can be extended to collection of wastes from community dustbins where the waste can be segregated at the instant it is dumped using Open Cv.
2. Further, the incentives can be provided to both waste generators and waste recyclers.
3. Various kinds of payments — methods can be linked to facilitate the business model.

Thank you for your time!

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