Organization Name: Nagar Nigam, Jaipur, Govt. of Rajasthan

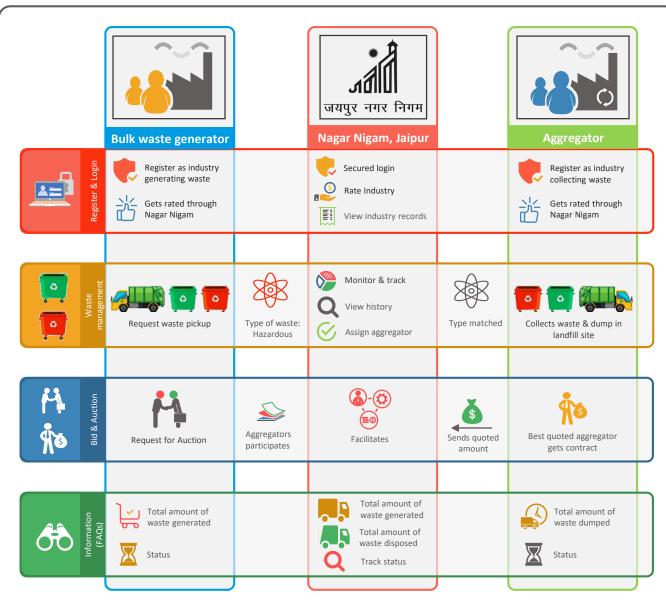
Problem Statement: Development of Website/App for collection, transportation,

disposal and segregation of waste products

Team Name : Brainiacs 3.4

Team Leader Name : Shivam College Code : 1-3517520220

## **Idea of Approach**



### Note

For the sake of simple representation, Industries has been divided into two types:

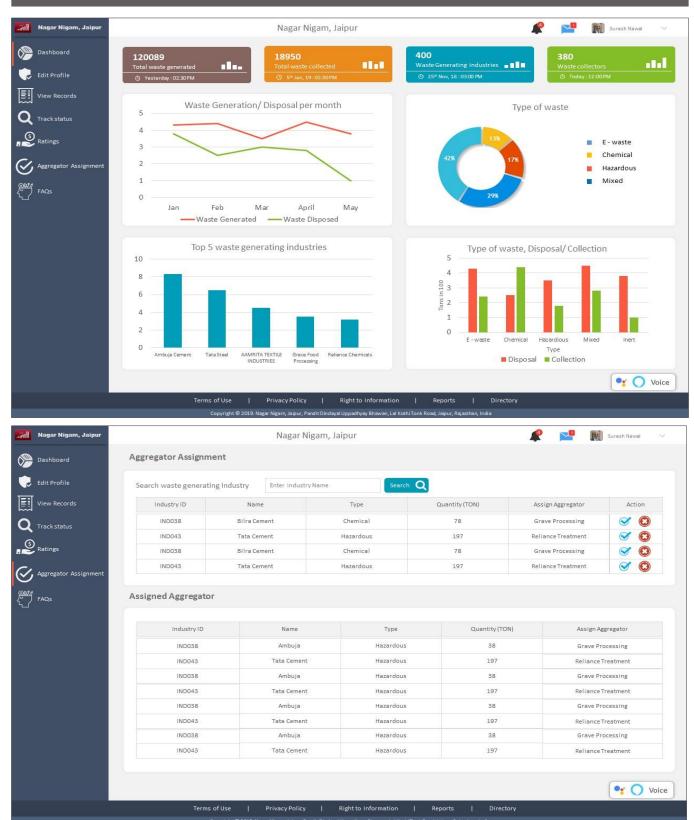
## **Bulk Waste Generator**

Industries who are generating solid waste and does not have waste treatment and disposal capabilities in house

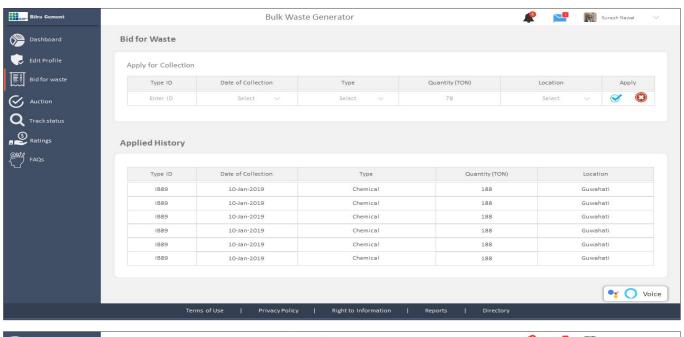
### **Aggregator**

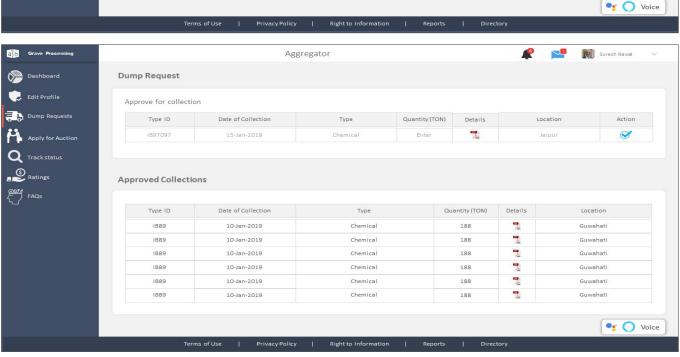
Industries who collects the waste from the site and disposes it to the land fills after treating the waste appropriately

# Screen Designs



- Application will bring all the stakeholders involved in the process of waste
  management on a single platform so as to make the process of disposing waste
  seamless for industries and to help Nagar Nigam to keep the landfills free of harmful
  wastes.
- Application will allow Bulk waste generators to raise a request for the collection and disposal of waste.
- Nagar Nigam can now facilitate and monitor the process of waste disposal at every stage – collection, segregation, disposal etc. with the help of the proposed system
- The system will enable Nagar Nigam to connect Aggregator with the suitable Bulk waste generator.
- Nagar Nigam can closely watch the request raised, served and not served for waste disposal with the help of info-graphics represented on dashboard
- Industries can auction the waste available and also place a bid on the actionable waste with the help of the proposed system
- The system will allow Industries to collaborate and support each other by knowledge transfer or by defining process of waste management for them

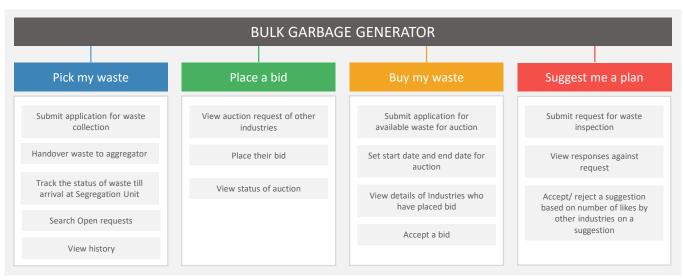




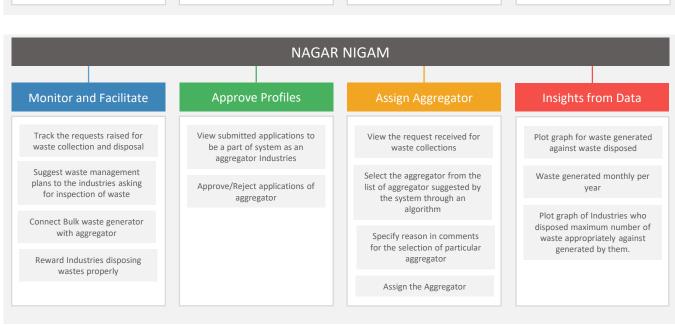
# **Technology Stack**



**Firebase** 







# **Dependencies**

## On-boarding Stakeholders on application

- Profiles for the user of Jaipur Nagar Nigam will be created beforehand for the proper functioning of system.
- Profile of Aggregator type Industries has to be approved by Nagar Nigam (Admin) after they register in order for the aggregator to be able to use system.

### Information

- Information regarding type of waste, available quantity of waste and date of waste generation will be provided by Bulk Garbage generator Industry appropriately.
- Information regarding amount of waste disposed, waste recycled will be provided appropriately by the Aggregator

#### Infrastructure

• All the stakeholders involved have basic IT infrastructure to run the web application