Waste Management System

Mr. Girish R. Shinde
Lecturer
grshinde@kkwagh.edu.in

Miss. Tanishka T. Dhikale
Student
tanishkadhikale@gmail.com

Mast. Sujal S. Thakur
Student
sujalthakur9669@gmail.com

Mast. Abhiraj M. Bhalerao
Student
abhitech090@gmail.com

Miss. Sneha D. Vanjari
Student
snehavanjari13@gmail.com

Abstract -
An information system is a very famous tool in this digital era. In our country we have government bodies which are responsible for maintaining and running cities. It"s all their responsibilities to address the complaint of citizens.For this government has 2 ways, in first cameras or other surveillance devices have to be installed and second way is that citizens could report their problem to the government. The second way is mostly used because it is cheaper as compared to first one. But it takes paper work and time too because the citizens has to visit the ward office and report problem faced by them which can be solved by government or as due to the emergence of internet and its various capabilities, there has been rise in the number of complaint sites which provides citizens a platform to lodge a complaint online. As mobile application is mostly used by people ,this app will help people to lodge a complaint through it and can attach a picture of things which are causing problem and location will be tracked using GPS(Global Positioning System).The application also provides a user facility to view status of lodge complaint until is resolved , while online system will help officers at government to solve/reject complaint with reasons and monitor the status of complaint. The Aim for creating this Application is to simplify the process of lodging complaint to respective government and make it quick and cheaper.To create a comfortable human habitat, smart cities incorporate many mobile technologies. Offering a waste management system that is efficient, effective, and ecologically beneficial is one of these alternatives. The current waste collection system comprises routine waste trucks making daily or weekly rounds, which not only uses up a tone of resources but also doesn't cover the entire city.Using this software, the administrator can fully monitor and evaluate the system while managing the waste app online. Bins, drivers, and driver work reports are all handled by the admin here. The government can more effectively manage the enormous volumes of rubbish that are collected every day by using the mobile-based system that is proposed in this article. Additionally, it provides the general people with a better remedy for the nuisance of garbage disposal. A driver performs this; an app will offer suggested and guided routes for garbage trucks. After that, the driver will update the status of the task that has been completed. In the waste management structure, app solutions can be the most significant assistants in integrating the suitable and latest technologies for the civilians, companies, authorities, and other stakeholders to meet the objectives of waste prevention, environmental protection, recycling, and more. The application aims to address the growing problem of waste management in today's society. It is designed to provide a convenient and efficient platform for users to manage their waste effectively.

Keywords: NGO's,Gps, Mobile Application, Waste, Online, Complaint, Citizen.

Introduction

"There are few things certain in life – one is death, second is change and the other is waste." No one can stop these things to take place in our lives. But with better management we can prepare ourselves. Here we will talk about waste and waste management. Each of us has a right to clean air, water and food.

This right can be fulfilled by maintaining a clear and healthy environment. Now for the first question, what is waste? Any material which is not needed by the owner, producer or

processor is waste. Generally, waste is defined as at the end of the product life cycle and is disposed of in landfills. Most businesses define waste as "anything that does not create value". In a common man's eye anything that is unwanted or not useful is garbage or waste. However scientifically speaking there is no waste as such in the world. Almost all the components of solid waste have some potential if it is converted or treated in a scientific manner.

Hence we can define solid waste as "Organic or inorganic waste materials produced out of household or commercial activities, that have lost their value in the eyes of the first owner but which may be of great value to somebody else."Generation of waste is inevitable in every habitation howsoever big or small. Since the dawn of civilization humanity has gradually deviated from nature & today there has been a drastic change in the lifestyle of human society. Direct reflection of this change is found in the nature & quantity of garbage that a community generates. We can dispose the waste or reuse the waste and can earn money through proper management. The purpose of this paper is to gain knowledge about various initiatives in both countries and locate the scope for improvement in the management of waste.

II. Literature Review & Existing Systems

Many researchers have contributed to this field. Various combinations of existing technologies have been used.

1) **Guntur Corporation:**
   This site provides basic idea to register a complaint and also to check the complaint status whether the complaint is solved or not. In the website user can lodge a complaint online. User can submit their complaint and provide contact details such as address, email-id. The website shows the procedure of lodging complaint and its further process. What are the steps taken when a user lodges the complaint and how the complaint is forwarded.

2) **Consumer Complaint :**
   This website is useful for the consumer to file their complaints online. A complaint message is assumed by consumercomplaint.in to be a description of a situation experienced by a consumer. A complaint is only a personal opinion by a consumer, a perception of a consumer. That personal perception and/or opinion based on their own personal experience can be powerful, or meaningless, in the opinion of ConsumerComplaints.in, depending upon the context and content of what is written. We're not responsible for the way that information is interpreted by whoever reads it. Which of course

   varies from person to person, depending on whom they are, their own personal experiences, biases, opinions, etc.

3) **icomplaint :**
   iComplaints is a platform to create free online complaints using the power of Internet to transform society and organization. It gives a chance to an ordinary people to speak, raise his voice for faulty services or products and get support from others. It provides all tools and a huge community to listen your voice for your online complaints.
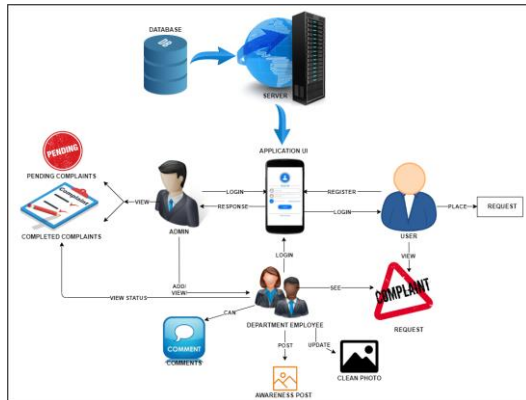
4) **Nagpurpulse :**
   In a major step to keep the city clean and green Nagpur Municipal Corporation has come up with an innovative solution by lodging complaints through the website and providing fast service to people of Nagpur. If your garbage is not collected SMS your name, Mobile number and address of bin and your will receive a confirmation from NMC regarding the registration of your complaint.

III. Methodology

The main purpose of this project is to help the public in knowing their place details and getting their problems solved in online without going to the officer regularly until the problem is solved. By this system the public can save his time and eradicate corruption in government offices. Its main purpose is to provide a smart and easy way through android or web Application for Complaint registration and its Tracking and eradicating system and thus to prevent Corruption. We want to

develop an android application for user where users can register complaints for Waste .

Apk Working

To transform the existing manual compliant management system into an automate system. For the better management of complaints to improve efficiency. android projects ideas All the peoples living in housing schemes societies can used our

android application for the registration of their complaints within India.The purpose of an online app for waste management solutions is to provide a platform for users to efficiently manage and handle their waste. The app typically offers various features and functionalities that help users track, categorize, and dispose of waste in an environmentally friendly manner.

IV. Implementation

The system after careful analysis has been identified to be presented with the following modules:

1) **Admin :**
    1. Login
    2. Add Department Employee
    3. View Department Employee
    4. View All Request Assign
    5. Assign Request to Employee
    6. View Completed Complaints
    7. View Pending Complaints

2) **Department Employee :**
    1. Login
    2. Can see all request sent by user
    3. Complaint Request
    4. Can Comment
    5. Can Make Status Completed
    6. Clean Photo Update
    7. Can post awareness post

3) **User:**
    1. Register
    2. Login
    3. Can place request- Id,Name,Location,Langitude,Latitude,Description
    4. View Post
    5. View Complaint Status

Applications – 1)
  NGO's :
      This application will provide the NGO's a means for communicating their needs(food, clothes, financial help, educational support etc.) with various users and getting them fulfilled.

2) Recycling centers:
      Revenue will be generated for recycling centers(industries) as there will be a growing supply of waste materials generated due to increasing rate of population.

3) Hotel industry:
      The reduction of waste at source is a key goal of the hotel. All waste items will be reused and recycled before considering disposal.

4) Manufacturing industry:
      Excess of produce of certain products which may not be put out for selling to common people due to certain reasons can be thrown away. Instead of throwing away, they can be reused and recycled.

CONCLUSION

This web application represents a system that provides creative eco-friendly solutions and encourages living a sustainable life. The goal of this application is to protect the environment and to help the people live a minimalistic lifestyle that is suitable for the environment with the support of technology. 3R web application aims to serve society and promote property value via recycling/reuse, borrowing/lending and donating.

References

[1] https://ieeexplore.ieee.org/document/9785006 **[2]** GoGreen is an IOS application that monitors your carbon footprint. download Today to discover your impact. GoGreen. (n.d.). Retrieved February 28, 2022, from http://www.gogreenapp.org/

[3] Gfreeapp is a technology related blog that covers the latest news. Ofreeapp.com. (2021, December 8). Retrieved February 28, 2022, from https://ofreeapp.com/

[4] Abdulgader, R. (2018, September 27). إعارة. App Store. Retrieved February 28, 2022, from https://apps.apple.com/sa/app/%D8%A5%D8%B9 %D8%A7%D 8%B1%D8%A9/id1434242614 [4] Save your municipality's recycling program. Recycle Coach. (n.d.). Retrieved February 28, 2022, from https://recyclecoach.com/