SYNOPSIS

ON

Waste Management System

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Submitted To:

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Title of the Project:

Waste Management System

Objective:

The objective of a waste management system is to minimize the negative impact of waste on the environment and public health. It aims to reduce the amount of waste generated, promote recycling and reuse, and ensure proper disposal of waste. By implementing effective waste management practices, we can conserve resources, reduce pollution, and create a more sustainable future

Scope:

The scope of a waste management system includes various aspects such as waste collection, transportation, treatment, and disposal. It also involves waste segregation, recycling programs, and public awareness campaigns. Additionally, the scope may include monitoring and regulation of waste management practices, as well as research and development of innovative waste management technologies. The goal is to create a comprehensive system that addresses all stages of waste management to ensure a cleaner and healthier environment.

Methodology:

Waste Minimization: This methodology focuses on reducing the amount of waste generated by an organization. It involves identifying the sources of waste and implementing measures to reduce waste generation [1].

1. **Recycling**: Recycling is the process of converting waste materials into new materials and objects. It is an effective way to reduce waste and conserve resources [1].
2. **Composting**: Composting is the process of breaking down organic waste into nutrient-rich soil. It is an eco-friendly way to dispose of organic waste and can be used as a natural fertilizer 1.
3. **Incineration**: Incineration is the process of burning waste materials at high temperatures. It is an effective way to reduce the volume of waste and generate energy [1].

Landfills: Landfills are sites where waste is disposed of by burying it in the ground. They are designed to prevent the release of harmful substances into the environment .

Proposed System and features:

1. **Waste Tracking System**: This system can help track the amount of waste generated by an organization, the type of waste, and the disposal method used. It can also help identify areas where waste can be reduced .
2. **Waste Segregation System**: This system involves separating waste into different categories such as organic waste, recyclable waste, and hazardous waste. It can help reduce the amount of waste sent to landfills and promote recycling .
3. **Waste-to-Energy System**: This system involves converting waste into energy. It can help reduce the volume of waste sent to landfills and generate electricity .
4. **Waste Reduction System**: This system focuses on reducing the amount of waste generated by an organization. It involves identifying the sources of waste and implementing measures to reduce waste generation .
5. **Waste Disposal System**: This system involves disposing of waste in an environmentally friendly manner. It can include methods such as recycling, composting, incineration, and landfills .

Implementation Plan:

1. **HTML**: HTML is the standard markup language used to create web pages. It provides the basic structure and content of a website .
2. **CSS**: CSS is a stylesheet language used to describe the presentation of a document written in HTML. It is used to add style and layout to web pages .
3. **JavaScript**: JavaScript is a programming language used to create interactive effects within web browsers. It is used to add functionality to web pages .
4. **PHP**: PHP is a server-side scripting language used to create dynamic web pages. It is used to interact with databases, manage sessions, and handle forms .
5. **Python**: Python is a high-level programming language used for web development, scientific computing, and data analysis. It is used to create web applications, automate tasks, and build machine learning models

Team Members:

Abhisht Pratap Singh, Rameshwar Singh , Yugul Pratap Singh, Sakshi Singh

Resources Required:

We will be using VS code for coding..

References:

Used Google for the research and development and websites like Geeks for Geeks.

Expected Outcomes:

A Website where people can get awareness about their surroundings and nature. One for place for every kind of Waste Management related works.

Project Supervisor:

Sir. Sanjay Madaan

Conclusion:

A waste management system is a streamlined process that organizations use to dispose of, reduce, reuse, and prevent waste. It is also an approach where companies implement comprehensive strategies to efficiently manage wastes from their origin until their final disposal. Possible waste disposal methods are recycling, composting, incineration, landfills, bioremediation, waste to energy, and waste minimization. As for waste management, it is the measures utilized to manage waste in its entire life cycle, from waste generation to disposal or recovery.