



WASTE MANAGEMENT SYSTEM

TEAM-2

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AGENDA

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- Problem Statement
- Solution
- Project Overview
- Output
- Conclusion





INTRODUCTION



Waste management is essential for maintaining cleanliness and sustainability, especially with the growing population and waste generation. Manual waste collection often leads to inefficiencies like mismanagement and delays. This project proposes an online Waste Management System that allows users to schedule waste collection, track the status of their requests, and receive notifications, ensuring a more organized and efficient waste disposal process.



PROBLEM STATEMENT



Managing waste collection manually can result in inefficient service, uncollected waste, and delayed responses to user requests. Users may face issues tracking the status of their waste collection requests, leading to dissatisfaction and environmental hazards. Additionally, waste collection services often struggle to organize schedules effectively and communicate updates to the public in real time.



Project OverView



USER FEATURES

SIGN UP

- Create a new user account to access the application.

LOGIN

- Access your account using your username and password.

CREATE REQUEST

- Submit a new waste collection request by providing necessary details.

REQUEST STATUS

- Track the status of your waste collection request in real time.

CANCEL REQUEST

- Withdraw a previously submitted request if necessary



Project OverView



ADMIN FEATURES

LOGIN

- Access the administrative dashboard with your credentials.

VIEW REQUESTS

- Review all incoming waste collection requests from users.

APPROVE/REJECT REQUESTS

- Manage requests by approving or rejecting them based on availability and resource



Project OverView



User Features (Notifications Module)

- **NOTIFICATION UPDATES**
- Receive email alerts about the status of your waste collection request (e.g., request approval, schedule updates).
- **REMINDERS**
- Get timely reminders for upcoming scheduled pickups or actions required on your request.



SOLUTION



- »»» This project proposes a Waste Management System that automates the waste collection process.
- »»» Users can register on the platform, request waste collection services, schedule the collection, and track the status of their requests in real-time.
- »»» The system sends notifications to users to keep them informed about the progress.
- »»» The platform also provides an administrative dashboard where admins can manage requests, assign tasks, and monitor the collection process efficiently.
- »»» This approach streamlines waste management operations, ensuring timely service and better communication with users



CONCLUSION



The Waste Management System offers a practical solution for automating waste collection services. By allowing users to schedule pickups, track requests, and receive notifications, the platform improves the efficiency and transparency of waste management operations. With the integration of a user-friendly interface and an admin dashboard, the system ensures that both users and service providers benefit from streamlined communication and timely service delivery.



PROJECT OUTPUT



The screenshot shows a web browser window with a registration form. The title bar indicates the URL is 127.0.0.1:8000/register_user/. The form is titled "Register" and contains fields for "Username" (with "hp" entered), "Email" (empty), "First Name" (empty), "Last Name" (empty), and "Password" (represented by a series of dots). The browser's address bar also lists other tabs like "User Dashboard - Wa", "Introducing ChatGPT", "ChatGPT", "Tiësto - Red Lights", "waste management", and "Waste Manager". The taskbar at the bottom shows various application icons and the date/time as 27-11-2024 19:33.

Register

Username

hp

Email

First Name

Last Name

Password

.....

Type here to search

19:33
27-11-2024



PROJECT OUTPUT



The screenshot shows a web browser window with the URL `127.0.0.1:8000/login_user/` in the address bar. The browser tab is titled "Waste Manager". The main content is a login form with the following elements:

- Username:** Input field containing "hp".
- Password:** Input field containing ".....".
- Remember me:** A checkbox labeled "Remember me" with an unchecked state.
- Login:** A button labeled "Login" in white text.
- Forgot your password?**: A link labeled "Forgot your password?".
- Don't have an account? Register here**: A link labeled "Don't have an account? Register here".

The browser interface includes a search bar at the bottom left, a taskbar with various icons at the bottom, and a system tray at the bottom right showing the date and time (27-11-2024) and battery status (ENG 19:32).



PROJECT OUTPUT



The screenshot shows a web browser window titled "Waste Manager" running on a local host at 127.0.0.1:8000. The main content area features a dark background with a large white rectangular box containing the text "Welcome to Waste Manager" and "Manage your waste collection requests efficiently." Below this is a blue "Get Started" button. At the bottom of the page, there is a section titled "About Our System" with a paragraph about the importance of proper waste disposal. The browser's address bar shows several open tabs, including "User Dashboard - Wa", "Introducing ChatGPT", "ChatGPT", "Tiësto - Red Lights (C)", "waste management t", and the current tab "Waste Manager". The Windows taskbar at the bottom includes icons for search, file explorer, settings, and various applications like Microsoft Edge, YouTube, and Microsoft Word. The system tray shows the date (27-11-2024), time (19:32), battery status, and network connection.

Welcome to Waste Manager

Manage your waste collection requests efficiently.

Get Started

About Our System

Waste disposal is an essential part of maintaining a clean and sustainable environment. Proper waste management ensures that harmful materials do not contaminate our surroundings, water bodies, or air. Effective waste disposal methods reduce pollution, protect public health, and contribute to



PROJECT OUTPUT



and maximize recycling efforts. Everyone has a role to play in waste disposal, and we encourage responsible waste management practices.

Schedule Waste Pickups

- Separate organic waste (such as food scraps) from inorganic waste.
- Organic waste can be composted to enrich soil and reduce landfill.
- Sort recyclable materials (plastics, glass, paper) into specific bins to facilitate recycling and reduce pollution.
- Keep hazardous waste (such as batteries and electronic waste) in separate containers for safe disposal at designated facilities.
- Encourage community participation in waste segregation to maximize environmental benefits and foster a cleaner habitat.

A screenshot of a Microsoft Edge browser window. The address bar shows the URL '127.0.0.1:8000'. The main content area displays a dark-themed card with the title 'Schedule Waste Pickups' and a bulleted list of waste management tips. The browser's taskbar at the bottom shows various pinned and open tabs, and the system tray indicates the date and time as '27-11-2024 19:33'.



PROJECT OUTPUT



The screenshot shows a web browser window with the URL `127.0.0.1:8000/profile/profile/`. The title bar indicates the page is titled "User Profile - Waste M". The browser has several tabs open, including "User Dashboard - Wa", "Introducing ChatGPT", "ChatGPT", "Tiësto - Red Lights (O", "waste management", and "User Profile - Waste M".

The main content area displays a "User Profile" section with the following details:

- Username:** BumchickBhaskar
- First Name:** Bumchick
- Last Name:** Bhaskar
- Email:** bumchickbhaskar@gmail.com

Below the profile information is an "Edit Profile" button.

The "Saved Addresses" section contains one entry:

- Goripalya 2nd Stage (Home)**
Bangalore, Karnataka - 560026

For this address, there are two buttons: "Default Address" (highlighted in green) and "Delete Address".

At the bottom of the profile section is a link "Add New Address".

The browser's taskbar at the bottom shows the Windows logo, a search bar with the placeholder "Type here to search", and various pinned application icons. The system tray on the right shows the date (27-11-2024), time (19:33), battery level, signal strength, and language (ENG).



PROJECT OUTPUT



User Dashboard - Wa | Introducing ChatGPT | ChatGPT | Tiësto - Red Lights | waste management t | Pending Waste Collection | + | - | □ | X

← → C ⓘ 127.0.0.1:8000/adminn/pending-requests/ ⭐ A :

Admin Dashboard

Dashboard Users Requests Manage Drivers

Pending Waste Collection Requests

Unassigned Requests

User	Waste Type	Quantity (kg)	Requested On	Location	Actions
BumchickBhaskar	Metal	5		Home - Goripalya 2nd Stage, Bangalore, Karnataka	Assign Driver Reject

Assigned Requests

No assigned requests found.

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Type here to search

19:36 27-11-2024



PROJECT OUTPUT



User Dashboard - Wa X | Introducing ChatGPT X | ChatGPT X | Tiësto - Red Lights (C) X | waste management t X | Completed Waste Col X + - ☰

127.0.0.1:8000/adminn/completed-requests/ ⌂ A ⌂

Admin Dashboard

Dashboard Users Requests Manage Drivers

Completed Waste Collection Requests

User	Waste Type	Quantity (kg)	Collection Time	Location	Completed On
BumchickBhaskar	Electronic	5	Nov. 28, 2024, 11:31 p.m.	Home - Goripalya 2nd Stage, Bangalore, Karnataka	
BumchickBhaskar	Electronic	5	Nov. 28, 2024, 11:31 p.m.	Home - Goripalya 2nd Stage, Bangalore, Karnataka	
BumchickBhaskar	Electronic	5	Nov. 28, 2024, 11:31 p.m.	Home - Goripalya 2nd Stage, Bangalore, Karnataka	
BumchickBhaskar	Electronic	5	Nov. 28, 2024, 11:31 p.m.	Home - Goripalya 2nd Stage, Bangalore, Karnataka	
BumchickBhaskar	Electronic	5	Nov. 28, 2024, 11:31 p.m.	Home - Goripalya 2nd Stage, Bangalore, Karnataka	



PROJECT OUTPUT



Driver Dashboard

Profile

Assigned Tasks

No tasks assigned to you.

Completed Tasks

User	Waste Type	Quantity (kg)	Completed On	Location	Action
BumchickBhaskar	Electronic	3	Nov. 27, 2024, 4 p.m.	Home - Goripalya 2nd Stage, Bangalore, Karnataka	<button>Send Email</button>
BumchickBhaskar	Metal	5	Nov. 29, 2024, 9:30 p.m.	Home - Goripalya 2nd Stage, Bangalore, Karnataka	<button>Send Email</button>
BumchickBhaskar	Organic	2	Nov. 28, 2024, 2:54 p.m.	Home - Goripalya 2nd Stage, Bangalore, Karnataka	<button>Send Email</button>
BumchickBhaskar	Metal	4	Nov. 28, 2024, 3:01 p.m.	Home - Goripalya 2nd Stage, Bangalore, Karnataka	<button>Send Email</button>

Home - Plot number 77, Saniva Residency, Door number S1, 2nd Floor, 4th



PROJECT OUTPUT



Waste Manager

Welcome, Driver1! [Logout](#)

Driver Profile

Please fill in your details to complete your profile.

License number:

KA02LH044

Phone number:

9797979797

Vehicle details:

Green Ashok Leyland DumpMaster,
Registered under Bruhat Bengaluru
Mahanagara Palike



**THANK YOU FOR
YOUR ASSISTANCE**

