

# Garbage Management System Project Report

## 1. Introduction

The Garbage Management System is designed to provide a reliable, eco-friendly, and efficient solution for waste collection and management. It ensures seamless interaction between users and administrators, promoting sustainability through proper waste management practices.

## 2. Objectives

- To facilitate user registration and scheduling of garbage collection.
- To allow an admin to monitor and manage user information.
- To automate the process of assigning unique IDs and schedules for users based on their location.

## 3. Features

- User Registration: Allows users to register with details like name, email, phone number, address, district, and garbage collection schedule (weekly or monthly).
- Admin Login: A secure login system for admins (username: "admin", password: "1234kik") to access and manage registered user data.
- Data Management: Automatic storage of user information in the database for easy retrieval and monitoring.

## 4. System Architecture

The project is built using ASP.NET MVC, integrating Razor views and Entity Framework for seamless database operations.

## 5. Implementation Details

- User Model: Represents user data with fields like Name, Email, Address, PhoneNumber, District, and Schedule.
- Database: Stores user information securely for efficient retrieval by the admin.
- Authentication: Ensures secure admin access with predefined credentials.
- Registration Workflow: On successful registration, user information is saved in the database.
- Admin Dashboard: Displays all registered user information in a tabular format.

## 6. Tools and Technologies Used

- ASP.NET MVC Framework
- Razor Views
- Entity Framework
- Bootstrap for Frontend Design
- SQL Server for Database Management

## 7. Conclusion

The Garbage Management System simplifies waste collection and scheduling by leveraging technology. It enhances administrative efficiency and promotes environmental sustainability through structured waste management.

## 8. Future Enhancements

- Implement email notifications for users regarding their garbage collection schedules.
- Add a feature for users to provide feedback and suggestions.
- Enable real-time tracking of garbage collection trucks.

End of Report.

