Group 1
Data Management and Database Design
P1. Topic and Objectives

Team Members:
1. Amisha Dharmaraj Gokhale (002743313)
2. Deep Ajay Shah (002766755)
3. Koushal Sai Amshala (002772702)
4. Vidyavathi Puli (002706382)

TOPIC: Waste Management System

SCOPE:
Create a database that will focus on the waste of the environment. The use of a database can provide valuable insights and information on the types and quantities of waste generated, helping stakeholders make informed decisions on waste segregation and proper disposal methods. This can also help in reducing the risk of hazardous waste by identifying and addressing potential sources of harm and implementing preventative measures to minimize any negative impact on the environment and public health.

BACKGROUND:
The current system often lacks a centralized database for waste data, resulting in limited information for decision-making and planning. With limited data, it can be difficult to effectively segregate waste into different categories, leading to incorrect disposal methods and potential environmental hazards. Without a database, waste management processes may be disorganized and time-consuming, leading to increased costs and negative impacts on the environment. Lack of proper tracking mechanisms makes it difficult to monitor waste from its origin to its final disposal.
Thus, such database management system will help to keep a track of different waste type being collected from different locations.

OBJECTIVES:
To collect enough data that will help develop and efficient system
- Creation and storage of Waste Information.
- Segregating the waste as per the waste type.
- Finding the proper disposal location of waste.
- Calculating the total waste generated for a waste type in a year.
- Search disposal location with high volume of waste.
- Tracking of waste form its origin to its final disposal location.
- Waste collection for different types of waste as per different locations.
- Calculate the recycling rate for the waste.