# Data Management and Database Design P1: Topic and Objectives

#### Group 20:

- Pritesh Nimje 002817324
- Kamal Kotgire 002879990
- Neha Manjunath 002879249
- Chengjia Feng 002746829
- Yashvardhan Limbodiya 002284031

## **Community Management System**

#### **Background:**

The need for a Community Management System in the real world is highlighted by the complex needs of modern residential communities. These communities produce substantial data, including resident information, visitor logs, maintenance requests, and financial dealings. The efficient management of this information is critical for smooth community operations, enhanced security, and increased resident satisfaction. Implementing a centralized database system is key to managing this data accurately, securely, and accessibly, thereby streamlining community management and improving the overall living experience.

### **Purpose:**

- Streamline the management of resident data, amenities, visitor logs, and staff records to enhance operational efficiency.
- Enable accurate and transparent handling of financial transactions and maintenance charges for trust and accountability.
- Provide a responsive and effective system for managing service requests and complaints, ensuring timely resolution and improved resident satisfaction.
- Implement robust strategy for tracking and managing visitors and vehicles, ensuring a secure living environment.
- Ensure the security and accessibility of data to support informed decision-making for efficient community administration.

#### Scope:

The scope of this system is to focus on core functionalities like security management, resident and staff data management, visitor and vehicle tracking, maintenance and complaint management, and financial transaction handling. It excludes broader operational aspects like in-depth asset management, external vendor coordination, and extensive community engagement planning. This selective approach ensures a concentrated effort on essential community management aspects, providing a robust and efficient system tailored to the primary needs of residential communities.