

Aaditiya Tyagi

Section CS6A

2200290120001

Software Engineering Lab 05 : Prepare Class Diagram for the Selected Project Title. Identify the classes. Classify them as weak and strong classes and draw the class diagram

### **Description of Case Management System Class Diagram**

This class diagram represents the structure of an E-Portal for managing legal cases. The system includes:

- **Strong Classes** like User, Role, Case, Document, Hearing, and Organization which have independent lifecycles.
- **Weak Classes** like Notification, CaseHistory, TaskAssignment, CaseComment, and Settlement, which depend on strong classes.

### **Relationships:**

- User is assigned Role, belongs to an Organization, manages Cases, and receives Notifications and Tasks.
- Case contains Documents, Comments, Hearings, History, Tasks, and optionally a Settlement.
- Hearing includes multiple Users as participants.
- Enumerations are used for statuses and types, such as CaseStatus, HearingStatus, etc.

E-Portal for Case Management System - Class Diagram

