

# PROJECT PROPOSAL: PRISONER MANAGEMENT SYSTEM (PMS)

## **Problem Statement**

Managing a high-security prison with paper files is slow and risky. It is hard for the staff to quickly find prisoner details, track how much time is left in a sentence, or manage guard shifts. There is a need for a simple digital system to store all records safely and make daily prison work more organized.

## **Solution Description**

Our team will build a **multi-user Java application** called the **Prisoner Management System**. This software will replace manual registers with a digital database. It will help the prison staff manage inmate profiles, track crimes, and organize staff duties. Since it is built in Java, we will use "Objects" (like Prisoner, Guard, and Visitor) to make the system easy to understand and design.

## **Basic Modules of the Solution**

### **1. Inmate Management**

#### **Prisoner Profiling:**

A simple form to record a prisoner's name, age, physical marks, and ID number.

#### **Sentence Tracking:**

A feature that shows the entry date and calculates the expected release date.

#### **Cell Assignment:**

Keeps track of which cell or block each prisoner is staying in.

## **2. Staff & HR Management**

**Employee Info:** Stores details of jailors and guards, including their ID, rank, and salary.

**Shift Management:** A digital duty roster to assign guards to different areas (like the Gate or the Yard).

**Attendance:** Records daily check-in and check-out times for all prison staff.

## **2. Crime & Records Management**

**Offense History:** A record of what crime the inmate committed and the court's decision.

**Easy Search:** A search tool to quickly find a prisoner by their name, ID, or crime type.

## **3. Daily Activity & Reporting**

**Visitor Logging:** Recording the name of visitors, their ID, and who they came to see.

**Daily Status:** A one-click report showing how many prisoners are currently in the jail and how many staff members are on duty.

## **Software Architecture**

**Platform:** Multi-User Java-based System.

**User Roles:**

**Admin:** Can add, edit, or delete any record.

**Staff:** Can view records and mark daily attendance or visitor logs.

**Team Members**

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