



Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

Project Kit

Title of the Project

Prison Management System

Abstract of the project

A web-based application designed to manage inmate records, prison staff, visitor schedules, cell allocations, and reporting efficiently. The system provides a centralized and secure interface for prison authorities to maintain records, monitor activities, and generate operational reports while ensuring data integrity and controlled access.

Keywords

Generic Keywords

Prison, Inmates, Security, Visitor
Management, Jail Administration

Specific Technology Keywords

HTML, CSS, JavaScript, PHP,
MySQL

Project Type keywords

Analysis, Design, Implementation, Testing, Graphical User Interface

Functional components of the project

Following is a list of functionality of the system. More functionality that you find appropriate can be added to this list. And, in places where the description of functionality is not adequate, you can make appropriate assumptions and proceed.

Users of the system: Authorized User and Administrator are the users of this system.

Functionality:

When the user types in the URL of the website, a Welcome page is shown which has a login form. Login functionality should check the authenticity of the user from the database. If the user is not an authenticated user, he/she should be directed to the admin page.

Menu should contain following page:

- **Login Page**
Secure login system for customers and administrators.
- **Inmate Records Management**
Add, view, update, release inmate records.
- **Visitor Scheduling**
Track visitor information and schedule visits linked to inmates.
- **Cell Allocation System**
Allocate, track and manage inmate cells.



Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

- **Staff Management**
Manage staff profiles, roles, and shift schedules.
- **Admin Dashboard**
Central control panel with reporting features.
- **About Us Page**
Displays project details and student contribution.



Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

Steps to start-off the project:

- Get familiar with the required technologies (PHP, MySQL, JS, HTML/CSS).
- Understand prison management processes.
- Design relational database for inmates, staff, visitors, cells, and logs.
- Define roles: Admin, Officer, Clerk.

The following steps will be helpful to start off the project: -

1. Get a firm grasp on the above technology.
2. Get the domain knowledge.
3. Using PHP, MySQL
4. Decide on the number of users and their profile
5. Help should be very user friendly.
6. UI should include good images and have a constant look and feel throughout the application.

Requirements: -

Hardware requirements -

Number	Description	Alternatives (If available)
1	PC with 512GB hard-disk and 8GB RAM	Not-Applicable

Software requirements -

Number	Description	Alternatives (If available)
1	Windows 11 with MS-office	Not Applicable
2	PHP	
3	MS-SQL server	Oracle
4	Windows	Linux

Manpower requirements -

3 students can complete this in 4 – 6 months if they work fulltime on it.



Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

Milestones and Timelines -

Number	Milestone Name	Milestone Description	Timeline Week no. from the	Remarks
			start of the project	
1	Requirements Specification	Complete specification of the system (with appropriate assumptions) that constitutes this milestone. A document detailing the same should be written and a presentation on that be made.	2-3	Attempt should be made to add some more relevant functionalities other than those that are listed in this document.
2	Technology familiarization	Understanding of the technology needed to implement the project.	4-5	The presentation should be from the point of view of being able to apply it to the project, rather than from a theoretical perspective.
3	Database creation	A database of users, expenses details, Income details should be created.	5-7	It is important to finalize on the database at this stage itself so that development and testing can proceed with the actual database itself.
4	Implementation of the front-end of the system	Implementation of the main screen giving the login facility, screen that follows the login giving various options, screens for each of the options.	10-12	During this milestone period, it would be a good idea for the team (or one person from the team) to start working on a test-plan for the entire system. This test-plan can be updated as and when new scenarios come to mind.



Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

5	Integrating the front-end with the database	The front-end developed in the earlier milestone will now be able to update the database. Other features like. In short, the system should be ready for integration testing.	12-13	During this period Integrating the frontend with the backend it is a fundamental step in developing a web application
6	Integration Testing	The system should be thoroughly tested by	14-15	Another 2 weeks should be there to handle any issues
		running all the testcases written for the system (from milestone 5).		found during testing of the system. After that, the final demo can be arranged.
7	Final Review	Issues found during the previous milestone are fixed and the system is ready for the final review.	16-18	During the final review of the project, it should be checked that all the requirements specified during milestone number 1 are fulfilled (or appropriate reasons given for not fulfilling the same)

Guidelines and References

<https://www.phptutorial.net> (PHP tutorial)

<https://react.dev/> (React tutorial)

<http://www.functionx.com/sqlserver/> (SQL-server tutorial)