



**Swami Keshvanand Institute of Technology,
Management & Gramothan, Jaipur**
Department of Information Technology
Session 2023-24

Students Kit

Project Title: Prison Management System

Requirements Specification (RS)

No.	Requirement	Essential / Desirable	Description of the Requirement	Remarks
RS1	User Authentication	Essential	Secure login/signup for admin, officers, and authorized staff.	-
RS2	Inmate Records Management	Essential	Maintain inmate details including ID, name, crimes, sentence.	-
RS3	Visitor Management	Essential	Track visitor details and schedule visits.	-
RS4	Cell Allocation System	Essential	Manage cell allotment based on inmate category and availability.	-
RS5	Staff Management	Desirable	Manage prison staff records and duty schedules.	Extra functionality.
RS6	Admin Dashboard	Desirable	Overview panel to manage records, view reports, and monitor system.	Extra functionality.



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Database Fields Specification

No.	Field Name	Range of valid values for the field	Remarks
1	Inmate id	Alphanumeric, unique identifier	Primary key
2	FullName	Alphanumeric	Foreign Key
3	Crime	Alphanumeric	Details of crime committed

Visitor_info

No.	Field Name	Range of valid values for the field	Remarks
1	Visitor id	Alphanumeric, unique identifier	Primary key
2	Name	Alphanumeric	Unique username for login`
3	Inmate id	Alphanumeric	Foreign Key
4	Visit Date	Date	-
5	Relation	Alphanumeric	-

High Level/Detailed Design (HLD/DD)

Design Components

Admin User:

- Admin Dashboard
- Inmate Management
- Staff Management
- Reports and Analytics

Customer User:

- Login Screen
- Visitor Scheduling
- Inmate Search and Update
- Cell Allocation



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Test-Plan (TP)

No.	Test case Title	Description	Expected Outcome	The requirement in RS that is being tested	Result
1	User Registration	Tests new staff/admin account creation	Successful registration	User Authentication	Passed
2	Login Authentication	Validates login functionality.	User can log in securely	User Authentication	Passed
3	Inmate Record Creation	Adds a new inmate record	Record added successful, visible in system	Interest Calculation	Passed
4	Visitor Scheduling	Schedules a visit for an inmate	Visitor record linked to inmate	Visitor record linked to inmate	Passed
5	Staff Profile Management	Updates staff details and shift timings	Changes saved successfully	User Profile Management	Passed
6	Admin Dashboard	Validates admin access to system controls	Admin can view, update, and delete record	Admin Dashboard	Passed



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7	Reports Generation	Generates reports on inmates, staff, and visits	Accurate report generated as per selected filters	Admin Dashboard	Passed
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