

Abstract

With the upsurge in crime rates, it has become very tedious for the officers at the jail to manage the criminals. The system will be made to keep records of the criminals and about the jailors and officers. Officers can log in as a user and can save the prisoner's crime with date and time and prisoner number. Jailor can view the details of the criminals under his/her section. The Criminals are saved in the database with their case id. It is very useful as the written papers can get lost but in the criminal management system, this is not possible as the data will be backed up. The criminal's records cannot be deleted because it may be required later by the government to know any details about the criminals. The most difficult part in offline records is searching for prisoners, this problem however, is solved now because searching becomes very easy since all data is stored in the database and can be searched using prisoner id or name or even based on the crime they have committed so this makes the task very easy for the users.

This system tells about when any prisoner gets its punishment period over so that he/she can be released. Prison management system can be implemented in every prison without any problem. However, PMS has had its own share of challenges and limitations; for example, difficulty in motivating the staff in the new system, system design and deployment with the diverse modules, network building and ensuring system foolproof and monitoring. The objective of the case study is to analyze PMS, implemented in jails and judicial lock-ups everywhere by the Office of the Inspector General of Prisons. The analysis is divided into sections and focuses on a detailed analysis of the pre-implementation state of the project, the current status with respect to the proper functioning and benefits provided by the system, challenges and lessons learnt during the implementation phase.

LIST OF TABLES

- Admin
- Commits
- Crime
- Deleted_Jailors
- Jailor
- Jailor_phone
- Officer
- Officer_Phone
- Prisoner
- Section
- Visitor
- Visit

LIST OF FIGURES

- System Architecture
- ER Diagram
- Data Flow Diagram

LIST OF ABBREVIATIONS : N/A

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1.INTRODUCTION

1.1 System Overview:

Our Project 'Prison Management System' was ideated from the thought that there is no thorough system that captures the real essence of a criminal sentence period in jail, thus we have kept our website simple and suffice as it concentrates on the essential features like Prisoner, criminal records, Jailor, Officer, Section etc..and many correctional facilities do not have proper systems to cater to the vast magnitudes of requirements of criminals, and rely on manual management of critical data.

1.2 Objective & Motivation:

The Main Objective of our Prison Management is to forge an integrated information management system for criminals where all of the required needs and information are met through easy-to-use and intuitive data aggregation, where requests are automatically scaled and fulfilled according to the population of criminals, and their profiles are easily generated and archived. We also look to have real time access where updating to any part of the database, should mean the required change should happen in the other parts of the system.

The Motivation for the Prison Management System is that we want to ensure a computerized organization management system that replaces the current manual management systems used to monitor the data of prisoners, and ensures that the management task is eased and its performance, security, efficiency and effectiveness is also catered to. We are looking to create and design a system that has appropriate methodology, strategy, easy-to-understand and easy-to-use, thus giving the people in charge of managing the criminals an opportunity to look at better results and reduce unnecessary overhead costs.

1.3 Applications

Our Project 'Prison Management System' was ideated from the thought that there is no thorough system that captures the real essence of a criminal sentence period in jail, thus we have kept our website simple and suffice as it concentrates on the essential features like Prisoner, criminal records, Jailor, Officer, Section etc..and many correctional facilities do not have proper systems to cater to the vast magnitudes of requirements of criminals, and rely on manual management of critical data.

Prison management system is the collection of register cases for each prisoner entering the prison for automated release diary generator. In developed countries of the world, people are already fighting on how prisoners can gain access to the internet in their cell room or their common room.

1.4 Limitations

- At present no Framework has been used.
- Low security levels.
- To implement this in real-life situation, it will not be sustainable as many of the jailors and officers are not technologically aware
- Less User-Friendliness

2. System Analysis

2.1 Existing System

Let us consider the case of TIHAR PRISON one of biggest prisons in India with 12000 inmates. Includes info about prisoners, their crime and lodging pattern. It also records, tracks and monitors the movement of prisoners. Doesn't have the provision for head to schedule prisoners and guard's job (work assignment). No provision to keep feedback regarding the performance of the prisoners.

2.2 Proposed System

We have the database of prisoners, guards and administrator. Administrator can schedule jobs for prisoners and guards. Through feedback management guards can records the performance of prisoners. Production overview can be viewed. Administrator can have and update all the details of prisoners and guards. Assigning new ipc for new prisoners is a feature we have added too.

2.2.1 Benefits:

Improvements and reforms can be taken in a swifter and efficient manner. Alertness of guards gets increased since they need to provide constant feedback to the prison administration. Prison inmates can serve their jail period by serving the society. Production summary can be viewed also.

3.Requirements Specification

3.1 Hardware Specifications:

- 1GB RAM
- 1.6Ghz CPU, 32bit
- 1GB disk space

3.2 Software Specefications:

- XAMPP Server
- HTML
- MySQL Database
- CSS
- JavaScript 6.PHP
- PhpMyAdmin

Organization of the Project:

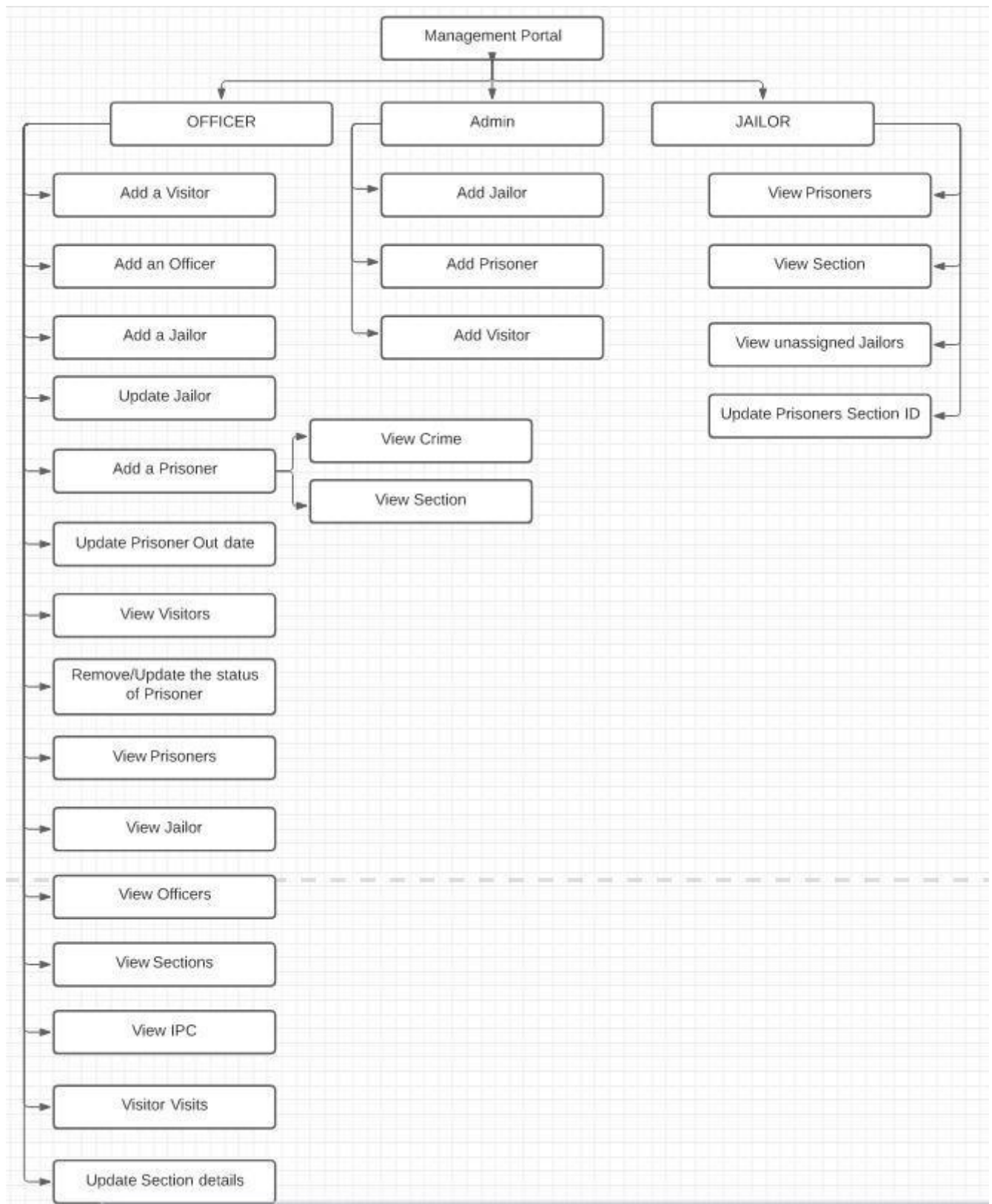
Frontend: HTML, CSS, PHP

Backend: XAMPP, PHP, MYSQL, MYSQL WORKBENCH

ER Diagram Creation: ERD-PL

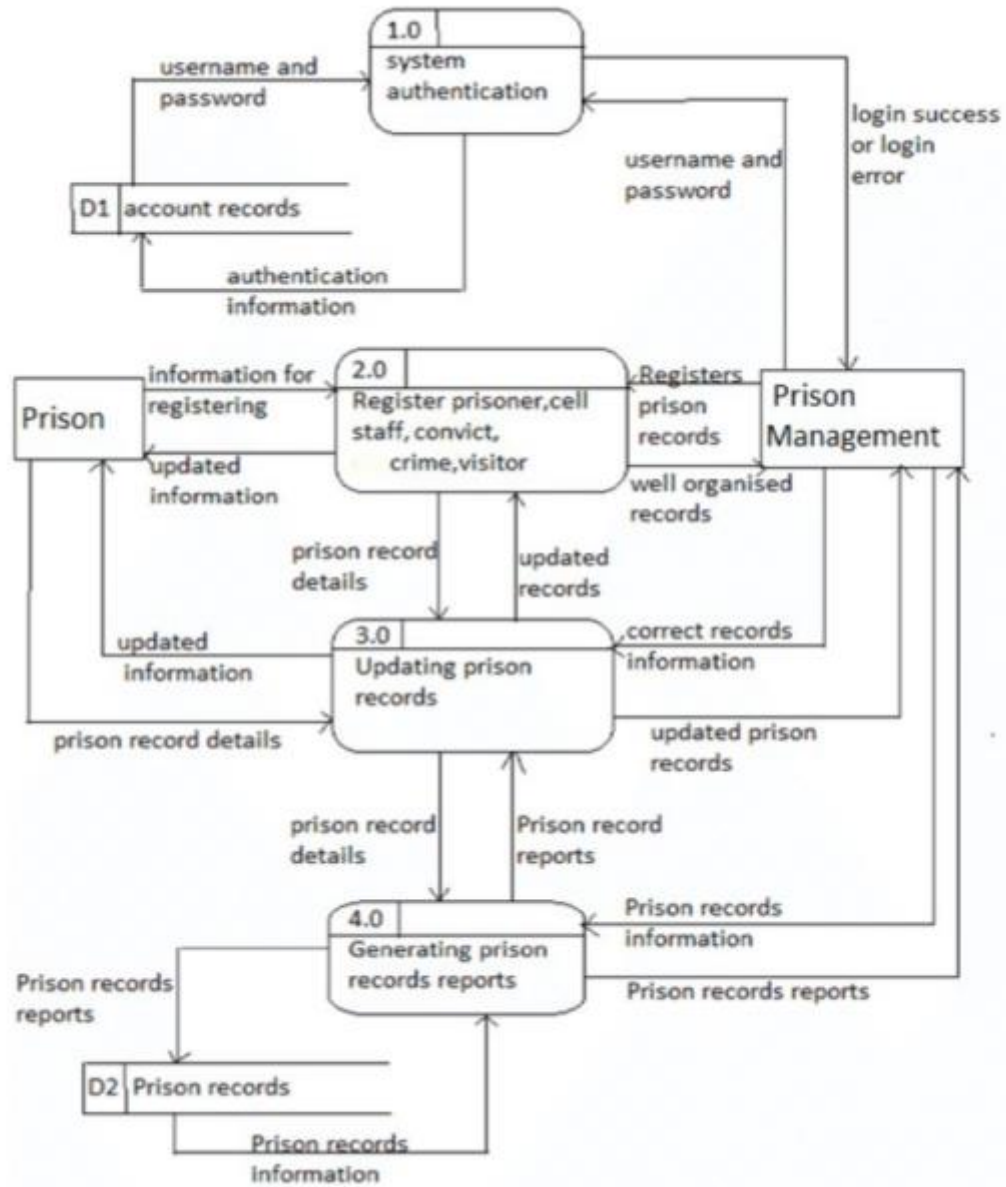
4.SYSTEM DESIGN SPECIFICATION

4.1 SYSTEM ARCHITECTURE



4.2 DETAILED DESIGN

-Data Flow Diagram

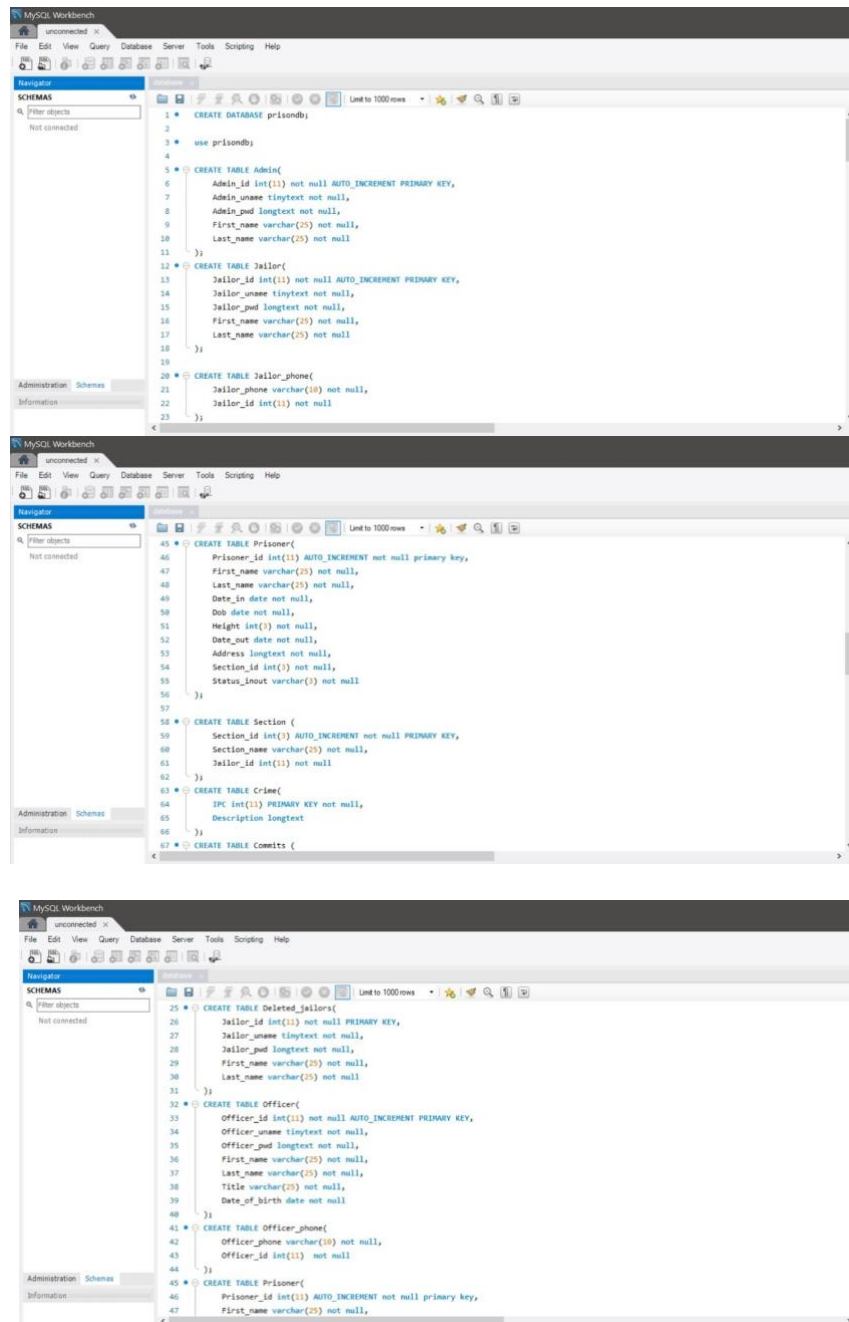


4.3 Database Design

Tables:

The prisondb database consists of the 'Commits', 'Crime', 'Deleted_jailors', 'Jailor', 'Jailor_phone', 'Officer', 'Officer_phone', 'Prisoner', 'Section', 'Visitor', 'Visit', 'Admin' tables.

Table Structure:



The image displays three screenshots of the MySQL Workbench interface, showing the SQL code for creating various tables in the 'prisondb' database. The code is written in a script editor, and the 'Navigator' pane on the left shows the 'SCHEMAS' tab with 'Not connected'.

Table 1: Admin

```
1 * CREATE DATABASE prisondb;
2
3 * use prisondb;
4
5 * CREATE TABLE Admin(
6     Admin_id int(11) not null AUTO_INCREMENT PRIMARY KEY,
7     Admin_uname tinytext not null,
8     Admin_pwd longtext not null,
9     First_name varchar(25) not null,
10    Last_name varchar(25) not null
11 );
```

Table 2: Jailor

```
12 * CREATE TABLE Jailor(
13     Jailor_id int(11) not null AUTO_INCREMENT PRIMARY KEY,
14     Jailor_uname tinytext not null,
15     Jailor_pwd longtext not null,
16     First_name varchar(25) not null,
17     Last_name varchar(25) not null
18 );
```

Table 3: Jailor_phone

```
19
20 * CREATE TABLE Jailor_phone(
21     Jailor_phone varchar(10) not null,
22     Jailor_id int(11) not null
23 );
```

Table 4: Prisoner

```
44 * CREATE TABLE Prisoner(
45     Prisoner_id int(11) AUTO_INCREMENT not null primary key,
46     First_name varchar(25) not null,
47     Last_name varchar(25) not null,
48     Date_in date not null,
49     Dob date not null,
50     Height int(1) not null,
51     Date_out date not null,
52     Address longtext not null,
53     Section_id int(1) not null,
54     Status_inout varchar(1) not null
55 );
```

Table 5: Section

```
56
57 * CREATE TABLE Section (
58     Section_id int(1) AUTO_INCREMENT not null PRIMARY KEY,
59     Section_name varchar(25) not null,
60     Jailor_id int(11) not null
61 );
```

Table 6: Crime

```
62
63 * CREATE TABLE Crime(
64     IPC int(11) PRIMARY KEY not null,
65     Description longtext
66 );
```

Table 7: Commits

```
67 * CREATE TABLE Commits (
```

Table 8: Deleted_jailors

```
24 * CREATE TABLE Deleted_jailors(
25     Jailor_id int(11) not null PRIMARY KEY,
26     Jailor_uname tinytext not null,
27     Jailor_pwd longtext not null,
28     First_name varchar(25) not null,
29     Last_name varchar(25) not null
30 );
```

Table 9: Officer

```
31
32 * CREATE TABLE Officer(
33     Officer_id int(11) not null AUTO_INCREMENT PRIMARY KEY,
34     Officer_uname tinytext not null,
35     Officer_pwd longtext not null,
36     First_name varchar(25) not null,
37     Last_name varchar(25) not null,
38     Title varchar(25) not null,
39     Date_of_birth date not null
40 );
```

Table 10: Officer_phone

```
41 * CREATE TABLE Officer_phone(
42     Officer_phone varchar(10) not null,
43     Officer_id int(11) not null
44 );
```

Table 11: Prisoner

```
45 * CREATE TABLE Prisoner(
46     Prisoner_id int(11) AUTO_INCREMENT not null primary key,
47     First_name varchar(25) not null,
```


MySQL Workbench

uncnnected X

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHMAS

Filter objects

Not connected

database

Limit to 1000 rows

```
85 ALTER TABLE Commits ADD CONSTRAINT fk_1 FOREIGN KEY (IPC) REFERENCES Crime(IPC);
86
87 ALTER TABLE Commits ADD CONSTRAINT fk_2 FOREIGN KEY (Prisoner_id) REFERENCES Prisoner(Prisoner_id);
88 ALTER TABLE Prisoner ADD CONSTRAINT fk_3 FOREIGN KEY (Section_id) REFERENCES Section(Section_id);
89
90 ALTER TABLE Section ADD CONSTRAINT fk_4 FOREIGN KEY (Jailor_id) REFERENCES Jailer(Jailor_id) ON DELETE CASCADE;
91
92 ALTER TABLE Visitor ADD CONSTRAINT fk_5 FOREIGN KEY (Prisoner_id) REFERENCES Prisoner(Prisoner_id);
93 ALTER TABLE Officer_phone ADD CONSTRAINT fk_6 FOREIGN KEY (Officer_id) REFERENCES Officer(Officer_id);
94
95 ALTER TABLE Jailer_phone ADD CONSTRAINT fk_7 FOREIGN KEY (Jailor_id) REFERENCES Jailer(Jailor_id) ON DELETE CASCADE;
96 ALTER TABLE Commits ADD CONSTRAINT eu_pk PRIMARY KEY (IPC,Prisoner_id);
97
98 CREATE UNIQUE INDEX VISITOR_DUP1_INDEX ON Visit (Date_visit,Time_slot,Visitor_aadhaar);
99 CREATE UNIQUE INDEX PRISONER_DUP1_INDEX ON Visit (Date_visit,Time_slot,Prisoner_id);
100 CREATE UNIQUE INDEX PRISONER_ONE_DAY_LIMIT ON Visit (Date_visit,Prisoner_id);
101 CREATE UNIQUE INDEX VISITOR_ONE_DAY_LIMIT ON Visit (Date_visit,Visitor_aadhaar);
102
103 INSERT INTO Admin (Admin_id, Admin_name, Admin_pwd, First_name, Last_name) VALUES (1,'admin','password','Tuhin','Chakrabarty');
104
105 INSERT INTO Officer (Officer_name,Officer_pwd,First_name,Last_name,Title,date_of_birth) VALUES ('officers','officers','Shawn','Brown','Inspect
106 INSERT INTO Officer_phone (Officer_phone,Officer_id) VALUES(9999776655,1);
107
```

Administration Schemas Information

phpMyAdmin

Server: localhost Database: prisonsb Table: jailor

Showing rows 0 - 9 (10 total, Query took 0.0006 seconds)

SELECT * FROM 'jailor'

Options

	jailor_id	jailor_name	jailor_pwd	First_name	Last_name
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	jailor1	jailor1	Steve	Quay
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	jailor2	jailor2	Marcus	Quay
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	jailor3	jailor3	Jim	Smith
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	jailor4	jailor4	Cory	Roy
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	jailor5	jailor5	Rob	Cole
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	6	jailor1	jailor1	Steve	Quay
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	7	jailor2	jailor2	Marcus	Quay
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	8	jailor3	jailor3	Jim	Smith
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	9	jailor4	jailor4	Cory	Roy
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	10	jailor5	jailor5	Rob	Cole

Query results operations

phpMyAdmin

Server: localhost Database: prisonsb Table: crime

Showing rows 0 - 5 (6 total, Query took 0.0063 seconds)

SELECT * FROM 'crime'

Options

	IPC	Description
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	Title and extent of operation of the Code.
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	Punishment of offences committed beyond but which
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	191	Giving false evidence.
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	300	Murder. When culpable homicide is not murder.
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	378	Theft.
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	415	Cheating.

Query results operations

5. System Implementation

5.1 Module Description:

Our portal has two main interfaces one for **Admin panel** and other is for **User** which is jailor and officer.

❖ Registration and Login :

Users(Jailor) data need to be registered in the prison management system to use the system and add the prisoner's details, change the official's duty shift, write FIRs etc.

❖ Prisoner management :

As soon as the court declares that the victim is found guilty and tells his or her punishment and in which prison the victim must be kept, the prisoner will be sent to the same prison as told by court and all the details of criminal like name, address, age, criminal number, crime and the punishment all can be updated in the prison management portal .Prisoners data cannot be lost because the backup of the database is there and the backup gets updated as soon as the changes are made into the database.

❖ Categorization based on Crimes:

Along with the prisoner's data, we will add a feature in the officials' portal using which they can view prisoner data based on different categories.. Categories will be divided based on crimes like for example all the details of prisoners under murder cases will be shown on one page

❖ Officials management :

As we know that the government keeps transferring the people for security reasons so it is important to know about the details of the officials in the particular prison. Therefore, if any new official gets transferred and to delete the officials' details if the officials get transferred somewhere else. All the details of officials like name, age, address, shift, and duty hours can be updated in our portal. If any official gets transferred to somewhere else then there is an option to delete the guard's details.

❖ **Visitor management :**

All the details of the visitor like name , age , date of visiting, prisoner name will be collected in our portal.

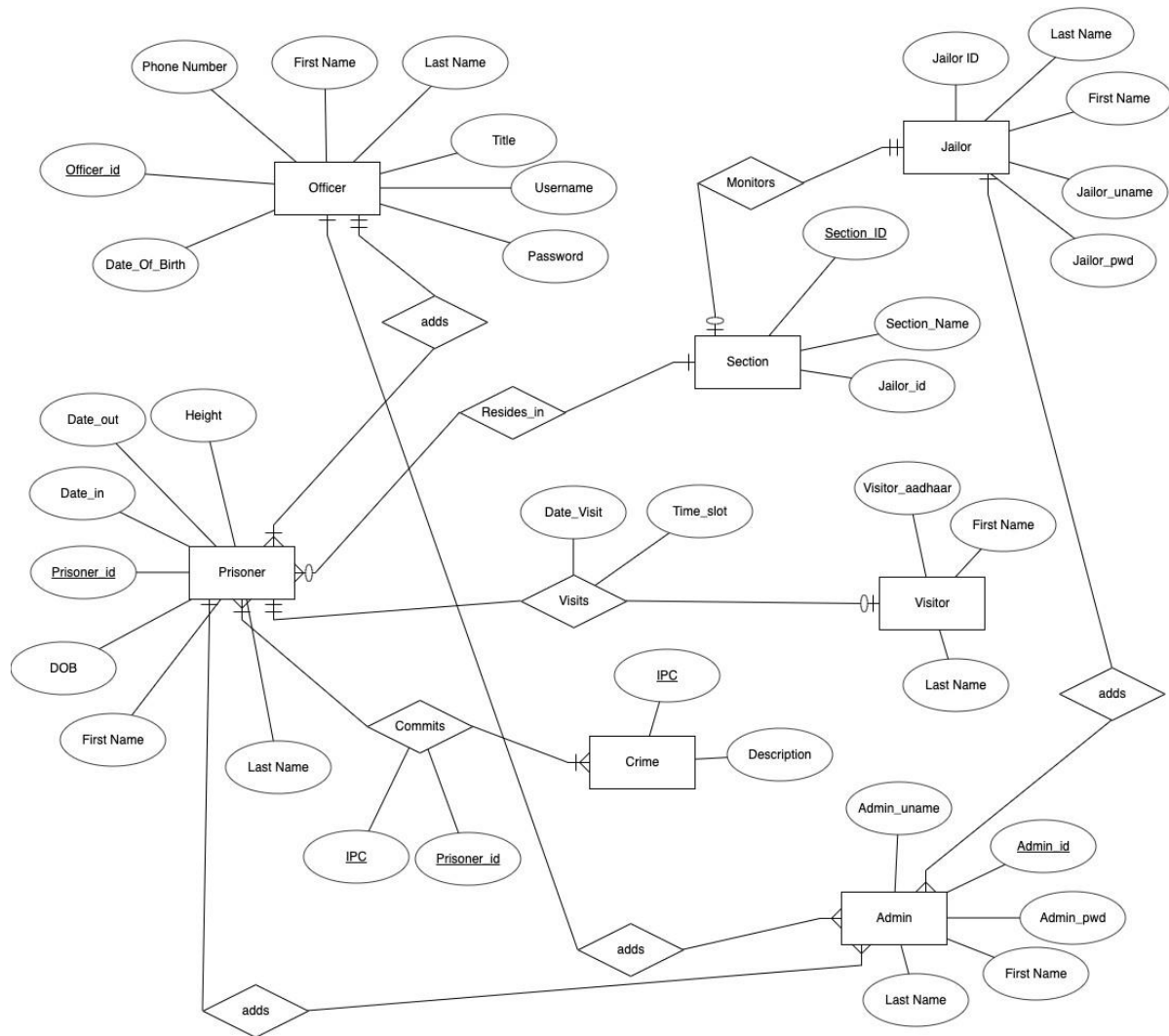
❖ **Admin portal:**

Admin can manage the entire system including jailor, officers and prisoners and updating their tables in the database.

❖ **Ward management:**

Jailor manages each ward/section in the prison based on the types of crime committed by the prisoner

ER DIAGRAM:



EXPLANATION:

In our project Prison Management Portal, we have 7 Entities : Admin, Officer, Prisoner ,Crime, Visitor, Section, Jailer

❖ OFFICER:

The officer entity has officer id, name(first and last name), username, password, phone number, title and date of birth as attributes and officer_id as the primary key as shown in the above diagram. The officer adds prisoners, which is a one to many relation.

PRISONER:

The prisoner entity has attributes- Date of birth, name(first and last name), prisoner id, height, address, date in and date out amongst which the prisoner id is the primary key. Prisoners commit crimes which are a many to many relation.

❖ **CRIME:**

The crime entity has attributes- IPC and description which stores the description of crime committed by the prisoner, here IPC is the primary key.

❖ **COMMIT:**

The commits relationship consists of 2 unique attributes - IPC and prisoner id, both of which are primary keys as it connects the prisoner to the crime that he has committed.

❖ **VISITOR:**

During the time the prisoner is imprisoned, he may have visitors visiting him. The visitor entity stores the visitor name(first and last name), visitor Aadhar . Here the visitor Aadhar is the unique primary key.

❖ **VISITS:**

The visits relationship consists of Date_Visit and Time Slot details to ensure that at a particular time and date the visitor can visit the prisoner only once. Many visitors can visit a prisoner but they cannot visit them at the same time.

❖ **SECTIONS:**

The prison has been divided into sections. Many prisoners reside in each of these sections. These sections are identified by the section id(primary key) and section name and connected to the jailor using jailor id.

❖ **JAILOR:**

Now each section is monitored by a Jailor who is appointed by the officer. The Jailor entity contains jailor id which is the primary key, name(first and last name) and jailor mobile which is a multivalued entity.

❖ **ADMIN:**

Admin can add details of Officer , Jailor and Visitor. The Admin entity has admin id, name(first and last name), username, password, phone number, title and date of birth as attributes and admin_id as the primary key as shown in the above diagram.

EXPLANATION:

In our project Prison Management Portal, we'll be having three users that will be Admin, Officer and Jailor respectively.

❖ Admin

The admin will mainly function for managing the overall maintenance of the website and he will be adding the officer on priority basis. But, if a situation arises in which an officer is unable to add a Jailor or a visitor, the Admin can add Jailor and Visitor in that case.

❖ Officer

Officer will play an important role in maintenance and management of the database. He will be having following functionalities:

- Adding a Prisoner and details of crime committed by them.
- Update the date when the prisoner will be released
- View the details of the prisoners in the Prison
- View other fellow officer
- Add and manage the list of visitors who visited the prison
- View crime details and history of prisoners
- View all the sections/wards with jailor id
- Add jailor and assign them to a particular ward and keep a tab on them
- View all the important IPC's and their description

❖ Jailor

Jailor will be an important subordinate to the officer and he will be keeping a close watch on the prisoners and keep a tab on them. They will have following:

- View Prisoners with their section Id
- View sections/wards by entering the jailor id
- View Jailors who are unassigned and who are assigned
- Update Prisoner Section ID stored in the database

6. Conclusion and Future Enhancements:

We would like to conclude this project by saying that we have successfully implemented it and achieved our objective. The Prison Management System we have made caters to the right users and provides an effective use. This system can now be implemented in any prison for effective management of records and taking a step towards digitalization. Through this process we also learnt the usage of various technologies like PHP and got to put our existing knowledge of MySQL to work.

We would like to thank **Prof. Lokeshkumar R** for providing us this esteemed opportunity to highlight our skills.

The Future Scope of this Project includes the further enhancements we can make to make it more feasible. Firstly, we would like to ensure further protection via hardware-driven devices like an iris scanner or fingerprint scanner. Secondly, we would also probably like to integrate our database management system with secure cloud services to ensure proper backup of information. Lastly, we will aim for multilingual support to serve a larger audience and increase user friendliness.

7. Appendices

7.1 Appendix 1- Sample Source Code

aboutus.php

```
<?php
require "../header.php";
?>
<div class="flex flex-col h-screen">
<section class="text-gray-700 body-font">
  <div class="container px-5 py-18 mx-auto">
    <div class="flex flex-col text-center w-full mb-20">
      <h1 class="text-2xl font-medium title-font mb-4 text-gray-900 tracking-widest">OUR
TEAM</h1>
      <p class="lg:w-3/5 mx-auto leading-relaxed text-base">This is the team that created the
Prison Management System, Uniquely profecient in their field of work, hardworking and creative
bunch of individuals with an objective of providing an effective and user-friendly system for the
welfare of the society</p>
    </div>
    <div class="flex flex-wrap -m-4">
      <div class="lg:w-2/5 lg:mb-0 mb-6 p-4">
        <div class="h-full text-center">
          
          <p class="leading-relaxed"></p>
          <span class="inline-block h-1 w-10 rounded bg-indigo-500 mt-6 mb-4"></span>
          <h2 class="text-gray-900 font-medium title-font tracking-wider text-sm">Anish
Khanna</h2>
          <p class="text-gray-500">Developer</p>
        </div>
      </div>
      <div class="lg:w-1/5 lg:mb-0 p-4">
        <div class="h-full text-center">
          
          <p class="leading-relaxed"></p>
          <span class="inline-block h-1 w-10 rounded bg-indigo-500 mt-6 mb-4"></span>
          <h2 class="text-gray-900 font-medium title-font tracking-wider text-sm">Tuhin
Chakrabarty</h2>
          <p class="text-gray-500">Developer</p>
        </div>
      </div>
    </div>
  </div>
</div>
```



```

<div class="h-full text-center">
  
  <p class="leading-relaxed"></p>
  <span class="inline-block h-1 w-10 rounded bg-indigo-500 mt-6 mb-4"></span>
  <h2 class="text-gray-900 font-medium title-font tracking-wider text-sm">Ayuj
Gupta</h2>
  <p class="text-gray-500">Developer</p>
</div>
</div>
</div>
</div>
</section>
<?php
require "../footer.php";
?>
</div>

```

crimeview.php

```

<?php
require 'header.php';
if(isset($_SESSION['userIdOfficer'])) {

  include_once 'includes/dbh.inc.php';
  //require 'header.php';
} else {
  header("Location: ./failure.php");
  exit();
}

$sql="SELECT * FROM Crime as F INNER JOIN Commits as A ON A.IPC=F.IPC INNER
JOIN Prisoner as P on P.Prisoner_id = A.Prisoner_id ";

$result=mysqli_query($conn,$sql);
$resultCheck=mysqli_num_rows($result);
if($resultCheck > 0){?>
<style>.foot{padding-top:55px;}</style>

<section class="text-gray-700 body-font relative">
<h1 class="text-3xl text-center">
  Prisoner Crime Details
</h1>

```

```

<div class="container text-center px-5 my-5 mx-auto">
  <div class="flex items-center justify-center bg-gray-50 pt-12 pb-56 px-4 sm:px-6 lg:px-8">

    <table class="table-fixed">
      <thead>
        <tr>
          <th class="w-1/5 px-5 py-2">IPC</th>

          <th class="w-1/5 px-5 py-2">Description</th>
          <th class="w-1/5 px-5 py-2">Prisoner ID</th>
          <th class="w-1/5 px-5 py-2">First Name</th>
          <th class="w-1/5 px-5 py-2">Last Name</th>

        </tr>
      </thead>
      <tbody>
        <?php
        while($row=mysqli_fetch_assoc($result)){ ?>

          <tr>
            <td class="border px-4 py-2"><?php echo$row['IPC']. "<br>";?></td>
            <td class="border px-4 py-2"><?php echo$row['Description']. "<br>";?></td>
            <td class="border px-4 py-2"><?php echo"PRI".$row['Prisoner_id']. "<br>";?></td>
            <td class="border px-4 py-2"><?php echo$row['First_name']. "<br>";?></td>
            <td class="border px-4 py-2"><?php echo$row['Last_name']. "<br>";?></td>

          </tr>
        <?php }?>
      </tbody>
    </table>
  <?php }
  ?>
</div>
</div>
</section>

<footer class="foot">
<?php
require'footer.php';?>
</foooter>

```

```

<?php
require "../header.php";
if(isset($_SESSION['userIdOfficer'])) {
    if(isset($_GET['error'])) {
        if($_GET['error']=="emptyfields") {
            echo'<h2 class="mt-6 text-center text-3xl leading-9 font-extrabold text-red-600">
            Empty fields!!
            </h2>';
        } elseif($_GET['error']=="sqlerror") {
            echo'<h2 class="mt-6 text-center text-3xl leading-9 font-extrabold text-red-600">
            sql database connection error!!
            </h2>';
        } elseif($_GET['error']=="passwordnotmatched") {
            echo'<h2 class="mt-6 text-center text-3xl leading-9 font-extrabold text-red-600">
            Reenter the correct password!!
            </h2>';
        }
    }
}
echo'

<form action="includes/jailor.inc.php" method="post" >
<div class="flex flex-col h-screen">
<section class="text-gray-700 body-font relative flex-grow">
<div class="container px-5 my-5 mx-auto">
<div class="flex flex-col text-center w-full mb-12">
<h1
    class="sm:text-3xl text-2xl font-medium title-font mb-4 text-gray-900"
>
    Jailor Registration
</h1>
<p class="lg:w-2/3 mx-auto leading-relaxed text-base">
    Add a Jailor!
</p>
</div>
<div class="lg:w-1/2 md:w-2/3 mx-auto">
<div class="flex flex-wrap -m-2">
<div class="p-2 w-1/2">
<label class="block text-sm leading-5 font-medium text-gray-700"
    >First Name</label>
>
<div class="mt-1 relative rounded-md shadow-sm">
<input
    name="f_name" placeholder="First Name" class="w-full bg-gray-100 rounded border

```

border-gray-400 focus:outline-none focus:border-indigo-500 text-base form-input block w-full px-3 h-10"

/>

</div>

</div>

<div class="p-2 w-1/2">

<label class="block text-sm leading-5 font-medium text-gray-700"

>Last Name</label

>

<div class="mt-1 relative rounded-md shadow-sm">

<input

name="l_name" placeholder="Last Name" class="w-full bg-gray-100 rounded border border-gray-400 focus:outline-none focus:border-indigo-500 text-base form-input block w-full px-3 h-10"

/>

</div>

</div>

<div class="p-2 w-1/2">

<label class="block text-sm leading-5 font-medium text-gray-700"

>Mobile Number</label

>

<div class="mt-1 relative rounded-md shadow-sm">

<input

name="mob_number" placeholder="9876543210" class="w-full bg-gray-100 rounded border border-gray-400 focus:outline-none focus:border-indigo-500 text-base form-input block w-full px-3 h-10"

/>

</div>

</div>

<div class="p-2 w-1/2">

<label class="block text-sm leading-5 font-medium text-gray-700"

>Username</label

>

<div class="mt-1 relative rounded-md shadow-sm">

<input

name="username" placeholder="UserName" class="w-full bg-gray-100 rounded border border-gray-400 focus:outline-none focus:border-indigo-500 text-base form-input block w-full px-3 h-10"

/>

</div>

</div>

<div class="p-2 w-1/2">

<label class="block text-sm leading-5 font-medium text-gray-700"

>Password</label

```

    >
    <div class="mt-1 relative rounded-md shadow-sm">
      <input type="password"
        name="password" placeholder="Password" class="w-full bg-gray-100 rounded border
border-gray-400 focus:outline-none focus:border-indigo-500 text-base form-input block w-full px-
3 h-10"
      />
    </div>
  </div>
  <div class="p-2 w-1/2">
    <label class="block text-sm leading-5 font-medium text-gray-700"
      >Confirm Password</label>
    >
    <div class="mt-1 relative rounded-md shadow-sm">
      <input type="password"
        name="cfmpassword" placeholder="Confirm Password" class="w-full bg-gray-100
rounded border border-gray-400 focus:outline-none focus:border-indigo-500 text-base form-input
block w-full px-3 h-10"
      />
    </div>
  </div>
  <div class="p-2 w-1/2">
    <label class="block text-sm leading-5 font-medium text-gray-700"
      >Section ID</label>
    >
    <div class="mt-1 relative rounded-md shadow-sm">
      <input type="text"
        name="section_id" placeholder="Section Id" class="w-full bg-gray-100 rounded border
border-gray-400 focus:outline-none focus:border-indigo-500 text-base form-input block w-full px-
3 h-10"
      />
    </div>
  </div>
  <div class="p-2 w-1/2">
    <label class="block text-sm leading-5 font-medium text-gray-700"
      >Section Name</label>
    >
    <div class="mt-1 relative rounded-md shadow-sm">
      <input type="text"
        name="section_name" placeholder="Section Name" class="w-full bg-gray-100 rounded
border border-gray-400 focus:outline-none focus:border-indigo-500 text-base form-input block w-
full px-3 h-10"
      />
    </div>
  </div>

```

```

<div class="p-2 w-full">
  <button
    name="jailor_add" class="flex mx-auto text-white bg-indigo-500 border-0 py-2 px-8
focus:outline-none hover:bg-indigo-600 rounded text-lg"
  >
    Submit
  </button>
</div>
</div>
</div>
</div>
</section>
</form>
';}else{
echo'
<div class="hero bg-gray-100 py-16 h-screen">
  <!-- container -->
  <div class="container px-4 sm:px-8 lg:px-16 xl:px-20 mx-auto">
    <!-- hero wrapper -->
    <div class="hero-wrapper grid grid-cols-1 md:grid-cols-2 gap-8 items-center">

      <!-- hero text -->
      <div class="hero-text col-span-6">
        <h1 class="font-bold text-4xl md:text-5xl max-w-xl text-gray-900 leading-
tight">Operation Failed</h1>
        <hr class="w-12 h-1 bg-indigo-500 rounded-full mt-8">
        <p class="text-gray-800 text-base leading-relaxed mt-8 font-semibold">Access
Denied</p>

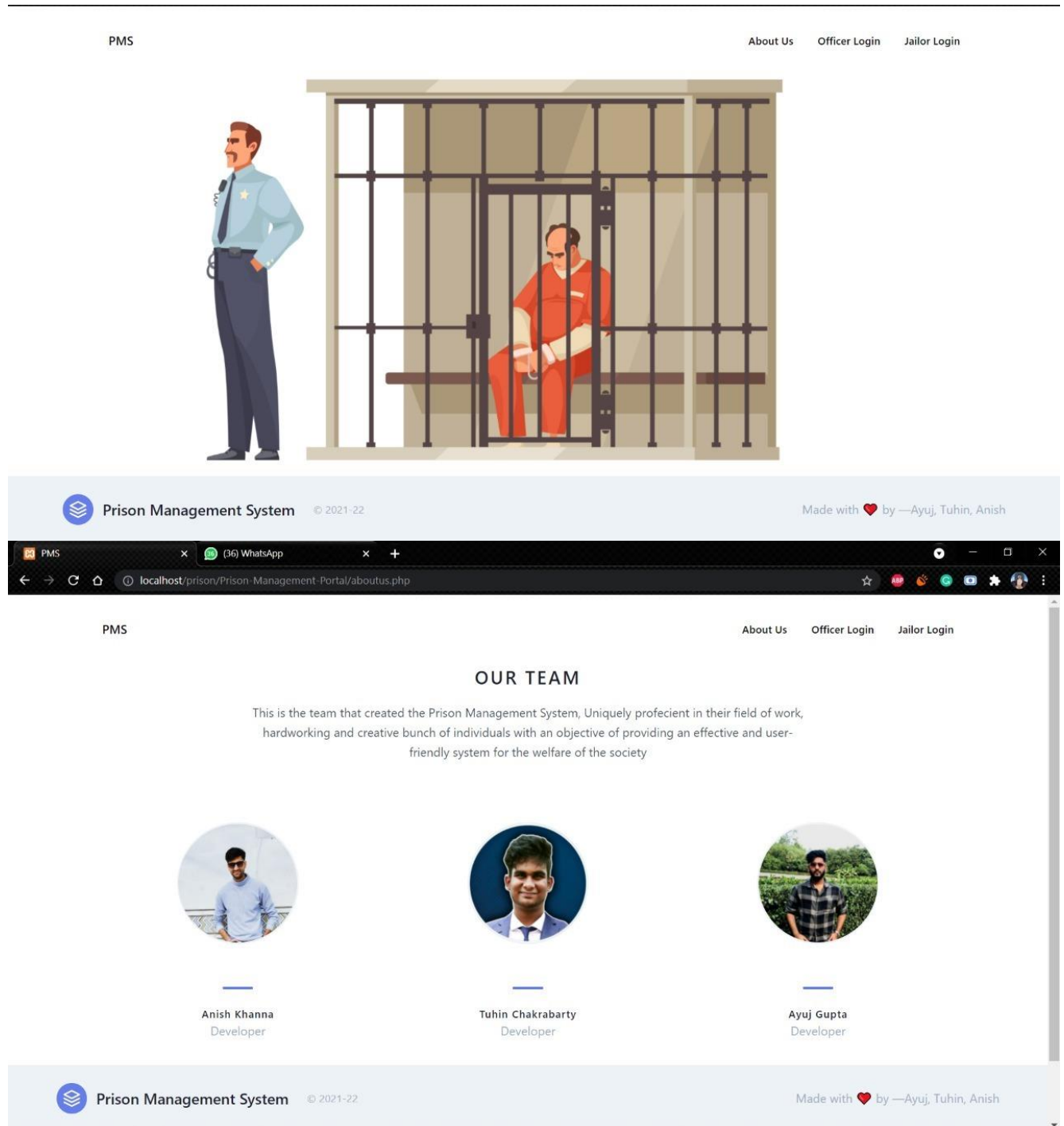
      </div>

      <!-- hero image -->
      <div class="hero-image col-span-6">
        
      </div>
    </div>
  </div>
</div>';
}
require "/footer.php";
?>
</div>

```

7.2 Appendix 2- Sample Screenshots/Output

1) Landing Page



2) Officer Portal Login



Officer Sign In



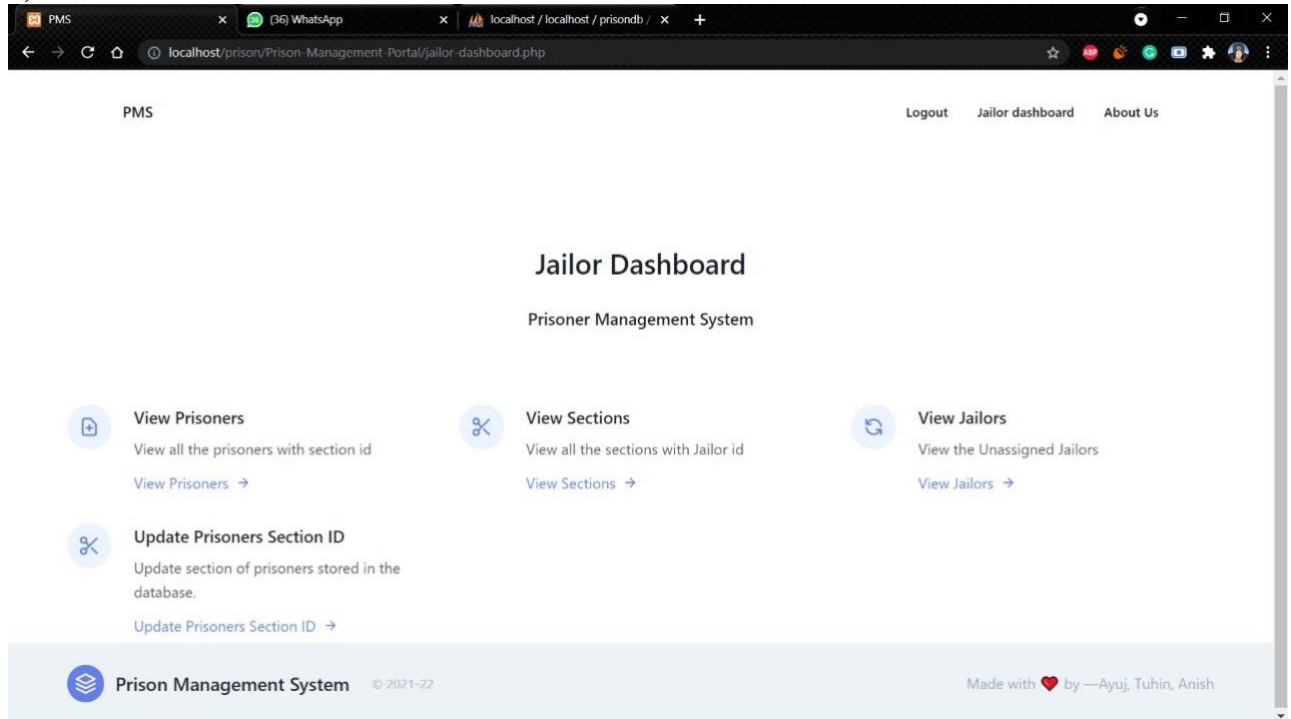
3) Jailer Portal Login



Jailer Sign In



4) Jailor Dashboard



5) Add Prisoner & Crime Details

PMS Logout Officer dashboard About Us

Crime Details

Crime details of Prisoner

IPC

3

191

300

378

Add a Prisoner

Add a prisoner to the system

First Name	Last Name
<input type="text" value="Steve"/>	<input type="text" value="Jobs"/>
Date in	Date Out
<input type="text" value="dd/mm/yyyy"/>	<input type="text" value="dd/mm/yyyy"/>
DOB	Height(in cms)
<input type="text" value="dd/mm/yyyy"/>	<input type="text"/>
Address	Section ID
<input type="text"/>	<input type="text"/>

6) Add a Visitor

PMS

Logout

Officer dashboard

About Us

Visitor Registration

Add a Visitor!

First Name	Last Name
<input type="text" value="First Name"/>	<input type="text" value="Last Name"/>
Aadhaar Number	Date of Visit
<input type="text" value="123456789012"/>	<input data-bbox="863 658 1123 685" type="text" value="dd/mm/yyyy"/>
Time Slot	Prisoner ID
<input type="text" value="10AM-11AM"/>	<input type="text" value="Prisoner ID"/>
<input type="button" value="Submit"/>	

7) Add a Jailor

PMS

Logout

Officer dashboard

About Us

Jailor Registration

Add a Jailor!

First Name	Last Name
<input type="text" value="Piyush"/>	<input type="text" value="Gupta"/>
Mobile Number 1	Username
<input type="text" value="7654323456"/>	<input type="text" value="jailor8"/>
Password	Confirm Password
<input type="text" value="....."/>	<input type="text" value="....."/>
Section ID	Section Name
<input type="text" value="777"/>	<input type="text" value="G"/>
<input type="button" value="Submit"/>	

8) Update Prisoner Out Date

[PMS](#)[Logout](#)[Officer dashboard](#)[About Us](#)

Update the Out date of a prisoner

Enter the Prisoner ID and the new out date.

Prisoner ID

Date Out

9) Add IPC Code

[PMS](#)[Logout](#)[Officer dashboard](#)[About Us](#)

Add IPC Code to Prisoner

Enter the Prisoner ID and IPC

IPC

Prisoner ID

10) Remove/Update Status of the Prisoner

PMS

LogoutOfficer dashboardAbout Us

Prisoner removed successfully!!

Prisoner Status Update

The Officer Can Update The Status of the Prisoner to IN/OUT!

PrisonerID

1

Submit

11) View Visitors

PMS

LogoutOfficer dashboardAbout Us

Visitors visited

Aadhaar	First Name	Last Name	Visit Date	Time Slot	Prisoner ID
123452626464	Rahul	Sharma	2021-05-09	4PM-5PM	PRI9
12345262678	Ranveer	Agarwal	2021-06-02	4PM-5PM	PRI3
123456789123	Shivam	Kumar	2021-05-05	10AM-11AM	PRI5
123456789123	Shivam	Kumar	2021-05-11	10AM-11AM	PRI5

12) View Prisoners

PMS

LogoutOfficer dashboardAbout Us

View all Prisoners!

PMS

LogoutOfficer dashboardAbout Us

Search again

Prisoner ID	First Name	Last Name	Date In	DOB	Height	Date Out	Address	Section ID	Status_inout
1	Sanskar	Jain	2021-05-04	2000-06-06	200	2021-05-26	Street1,Mumbai, India	333	OUT

12) Prisoner Crime Details

PMS

Logout

Officer dashboard

About Us

Prisoner Crime Details

IPC	Description	Prisoner ID	First Name	Last Name
3	Punishment of offences committed beyond but which by law may be tried within India.	PRI1	Sanskar	Jain
191	Giving false evidence.	PRI1	Sanskar	Jain
1	Title and extent of operation of the Code.	PRI2	Rahul	Agarwal

13) List of all the unassigned Jailors

PMS

Logout

Officer dashboard

About Us

Jailors removed

Jailor ID	First Name	Last Name	Mobile Number
JAI1	Steve	Quay	8876171369

14) View all the Officers

PMS

LogoutOfficer dashboardAbout Us

Officers present

Officer ID	First Name	Last Name	Title	Date Of Birth	Mobile Number
OFF1	Shaun	Brown	Inspector	1960-01-12	9988776655
OFF2	Vaibhav	Chopra	Inspector	2002-02-05	9876537282

15) View Sections

PMS

LogoutOfficer dashboardAbout Us





Sections present in the prison

Section ID	Section Name	Jailor ID	First_name	Last_name	Mobile number
SEC111	A	JAI7	Abhay	Gupta	9872363756
SEC222	B	JAI2	Marcus	Quay	6559892327
SEC333	C	JAI3	Jim	Smith	3893906914
SEC444	D	JAI4	Cory	Roy	7473154442
SEC555	E	JAI5	Rob	Cole	8251538586
SEC666	F	JAI6	Ram	Gupta	9874563756
SEC777	G	JAI8	Piyush	Gupta	7654323456

16) List of all important IPC

PMS	Logout	Officer dashboard	About Us
List of all important IPC Sections			
IPC	Description		
Section 1	Title and extent of operation of the Code.		
Section 3	Punishment of offences committed beyond but which by law may be tried within India.		
Section 191	Giving false evidence.		
Section 300	Murder. When culpable homicide is not murder.		
Section 378	Theft.		
Section 415	Cheating.		

17) Jailer Dashboard

PMS	Logout	Jailor dashboard	About Us
Jailer Dashboard			
Prisoner Management System			
<div></div> <div>View Prisoners View all the prisoners with section id View Prisoners →</div>	<div></div> <div>View Sections View all the sections with Jailer id View Sections →</div>	<div></div> <div>View Jailors View the Unassigned Jailors View Jailors →</div>	
<div></div> <div>Update Prisoners Section ID Update section of prisoners stored in the database. Update Prisoners Section ID →</div>			

18) Update Prisoner Section Id

PMS

Logout Jailor dashboard About Us

Prisoner Section has been updated successfully!!

Prisoner Section Update

The Jailor can update information related to The Prisoner and their Sections

PrisonerID

Prisoner ID

New
SectionID

New Section ID

Submit

19) Admin Login

PMS

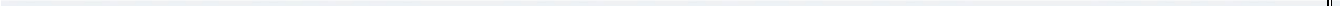


Admin Sign In

Username

Password

 Sign in



20) Admin Dashboard

PMS

LogoutAboutusManagement Portal

Admin Dashboard

Prison Management System

Add a Visitor

Add Visitor Details .

Add Visitor →

Add an Officer

Add Officer Details.

Add Officer →

Add a Jailer

Add Jailer Details .

Add Jailer →

21) Admin Officer Registration

PMS

LogoutAboutusManagement Portal

Officer Registration

Add an Officer!

First Name

Manasvi

Last Name

Alimchandani

Date of Birth

17/09/2002

Title

Inspector

Mobile Number

8079053733

Username

officer3

Password

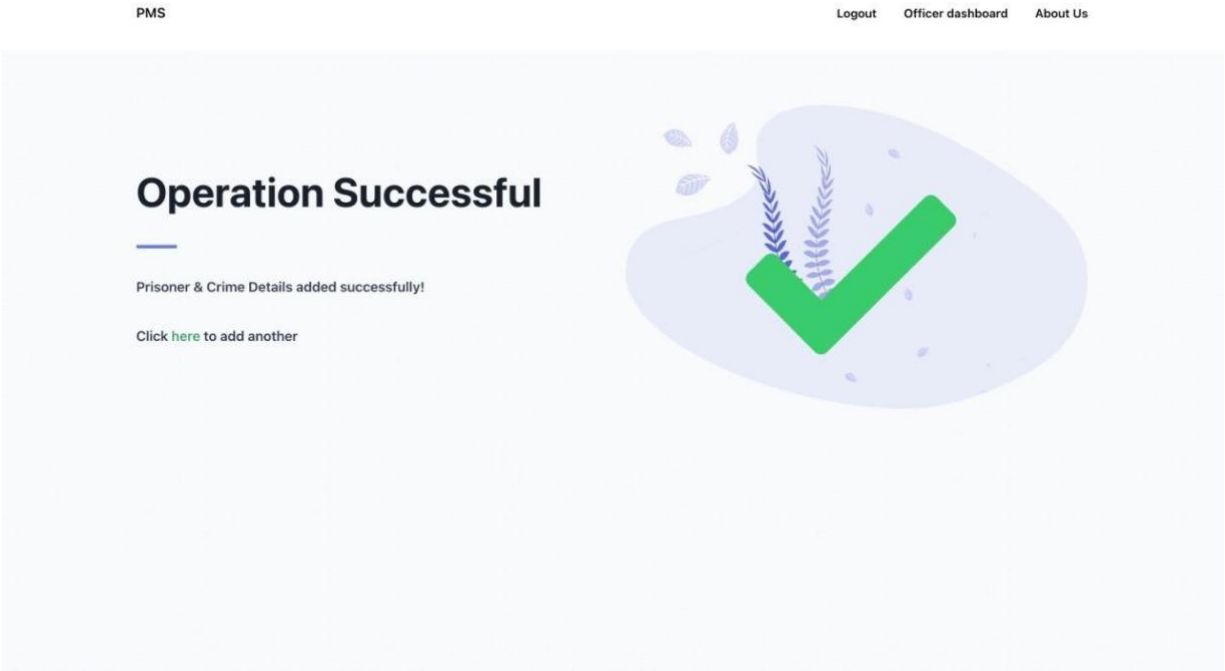
.....

Confirm Password

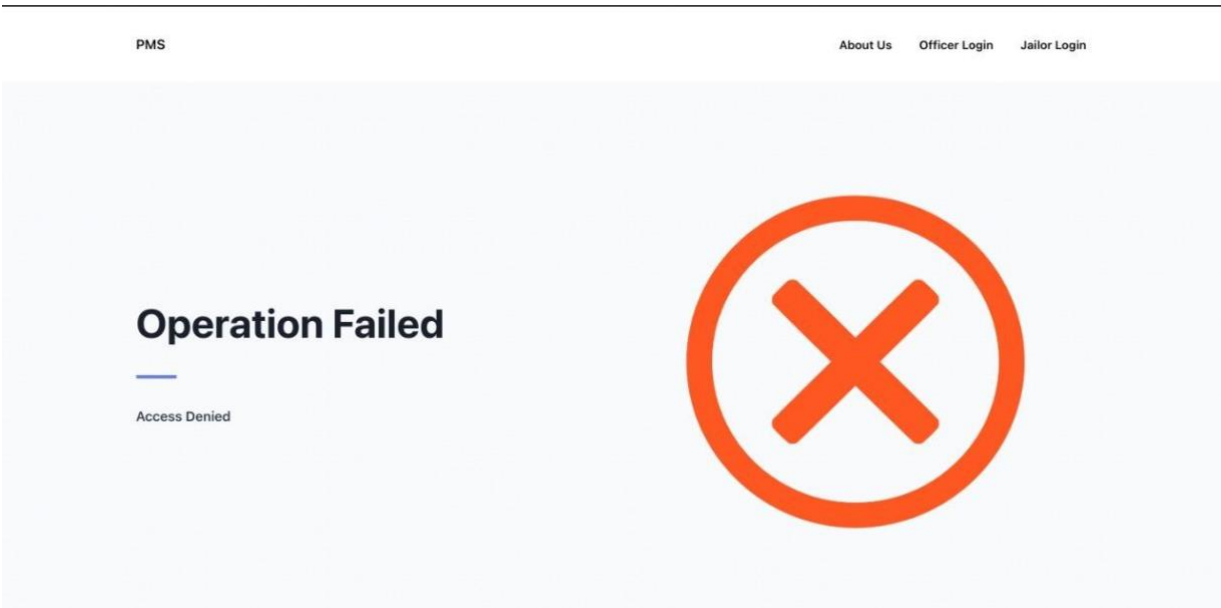
.....

Submit

22) Operation Success



23) Operation Fail



8. References

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- [2] SHIJU SATHYADEVAN, CRIME ANALYSIS AND PREDICTION,IEEE,25 SEP 2014,10.1109/CNSC.2014.6906719
- [3] WIKIPEDIA-SQL SERVER EXPRESS – [HTTPS://EN.WIKIPEDIA.ORG/WIKI/SQL_SERVER_EXPR ESS.](https://en.wikipedia.org/wiki/SQL_Server_Express)
- [4] ANIL JAISWAL, NEETA GUNJAL, POOJALONDHE, SHIKHA SINGH, RAMESH SOLANKI, "CRIME AUTOMATION & REPORTING SYSTEM" ,INTERNATIONAL JOURNAL OF SCIENCE AND MODERN ENGINEERING (IJISME), VOLUME-1, ISSUE-11, OCTOBER 2013
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