**Project Report  
 CSTE 4208**

**Project Name**: Prison Management System  
**Group Name**: NerdSilicon  
**Date of Submission**: 17th Nov, 2018

**Members**:

|  |  |  |
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**Summary:**

This project is aimed at developing a prison management system that is a collection of data for the effective management of prisons. This system contain data for prisoners, employees , doctors, and duty officers

Administrators will be able to store, search and delete data of the Prison which includes the basics of a prisoner , doctors , employees , duty officer .

And duty officer will be able to view the prisoner and employees Data.

**Feature List:**

**Front Page**

This page will appear first. There will be an announcement section where every important announcement will be posted by the admin. A login button will take input from different user to a different page. On the Top of the page will have some information regarding management system and contact information “About US”.

**Login Page**

In the login administrator will be able to log in if he has the username and password. This process will lead them forward to the admin homepage. Selection of different button will open different section while the user is logged in.

**Admin Homepage:**

Admin members have all the access. They can update this database, they can check, they can add or delete. In this section admin will see some feature. These features are given below:

**Prisoner:**

All the basic information of every prisoners will be stored there. Their prisoner id, first name, last name ,gender, age, blood group. Admin can add up a new prisoner in this database or delete anyone out from this database or can simply search a pisoner by their unique id.

**Add Duty Officer:**

A prisoner can be deleted from this section if anyone dies or removed or transferred.

**Add Duty Officer:**

Prisoner has its duty officers. Admin can add basic data of a duty officer such as Name, id, blood group, salary, religion, joining date, work shift, contact no etc.

**Add Duty Officer:**

Here admin will be to view the inserted data into the duty officer section.

**Search Prisoner by ID:**

If any prisoners specific information needed then this search option can be used for retrieving all data of a specific prisoner.

**Delete Duty Officer:**

If any duty officer is transferred then the data of that duty officer can be deleted by his id from this section.

**Add Employee:**

Prisoner has its employees. Admin can add basic data of an employee such as Name, id, blood group, salary, religion, joining date, work shift, contact no etc.

**Employee List:**

From here the inserted list of employees can be viewed at a time.

**Delete Employee:**

Employee can be deleted from here by the unique id if needed.

**Visitor:**

If anyone comes to visit to a prisoner then his information will be added here.

**Visitor List:**

When all data of visitor needed this section will retrieve all the saved information of visitors.

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**ER Diagram:**  
[ER diagram.png](ER%20diagram.png)

**Schema Diagram:**

[Schema Diagram.PNG](Schema%20Diagram.PNG)

**User Manual:**In our project, we worked on Prison Management System. We created a website where we can add, retrieve, delete data of the prisoners ,duty officers ,doctors ,and visitors. There is a admins who will manage this system by adding and manipulating data of the prisoners, duty officers, doctors. We inserted some data already to show that the overall system works. Admins can view the data of the all prisoners ,duty officers ,doctors .Duty officers will only can view the data of prisoners and employees. We can manage list of all doctors, nurses, employees with their full details.

**Queries:**

**For connection:**

<?php

$db['hostname'] = "localhost";

$db['username'] = "root";

$db['password'] = "";

$db['database'] = "prison";

// Create connection

$con = mysqli\_connect($db['hostname'],$db['username'],$db['password'],$db['database']);

// Check connection

if (mysqli\_connect\_errno())

{

echo "Failed to connect to Mysql: " . Mysqli\_connect\_error();

}

echo "Connected successfully";

?>

We get Data from user input with <form> and pass the data to save\_...........php by POST method.

Example:

Save\_prisoner.php

<?php

include\_once "connection.php";

$sql="INSERT INTO prisoner

(last\_name,first\_name,gender,age,blood\_group,address,criminal\_type,crime\_type,arrival\_date,allocated\_cell,case\_no)

VALUES('".$\_POST['last\_name']."','".$\_POST['first\_name']."','".$\_POST['gender']."','".$\_POST['age']."','".$\_POST['blood\_group']."',

'".$\_POST['address']."','".$\_POST['criminal\_type']."','".$\_POST['crime\_type']."','".$\_POST['arrival\_date']."','".$\_POST['allocated\_cell']."','".$\_POST['case\_no']."');";

if(mysqli\_query($con, $sql)){

?>

<h1>Member Added Successfully!</h1>

<?php

}

else

{

echo "Error: ". $sql . "<br>" . mysqli\_error($con);

}

mysqli\_close($con);

?>

In same way we add data of duty officer ,doctors, employees and visitors.

After saving data we view all the data from database.

Example: prisoner list.php

<?php

include\_once "connection.php";

if(!mysqli\_connect\_errno())

{

$prisoners = mysqli\_query($con,"SELECT \* FROM prisoner ORDER BY prisoner\_id");

mysqli\_close($con);

}

?>

<center><h1> Prisoner List </h1></center>

<center><p> This is a list for prisoners who are registered here </p><center>

<table>

<thead>

<th>ID</th>

<th>Name</th>

<th>Gender</th>

<th>Criminal Type</th>

<th>Age</th>

<th>Arrival Date</th>

<th>Allocated cell</th>

<th>Crime Type</th>

<th>Blood Group</th>

<th>Address</th>

<th>Case No.</th>

<th></th>

</thead>

<tbody>

<?php

$sl\_no=1;

foreach($prisoners as $prisoner){ ?>

<tr>

<td><?php echo $prisoner['prisoner\_id'];?></td>

<td><?php echo $prisoner['first\_name'].' '.$prisoner['last\_name'];?></td>

<td><?php echo $prisoner['gender'];?></td>

<td><?php echo $prisoner['criminal\_type'];?></td>

<td><?php echo $prisoner['age'];?></td>

<td><?php echo $prisoner['arrival\_date'];?></td>

<td><?php echo $prisoner['allocated\_cell'];?></td>

<td><?php echo $prisoner['crime\_type'];?></td>

<td><?php echo $prisoner['blood\_group'];?></td>

<td><?php echo $prisoner['address'];?></td>

<td><?php echo $prisoner['case\_no'];?></td>

</tr>

<?php

$sl\_no++;

};?>

</tbody>

</table>

We can also SEARCH prisoner with their id(prisoner\_id from prisoner table).

Example : Search prisoner.php

<?php

$query = $\_GET['query'];

$min\_length = 0;

if(strlen($query) >= $min\_length){

$query = htmlspecialchars($query);

$query = mysql\_real\_escape\_string($query);

$raw\_results = mysql\_query("SELECT \* FROM prisoner

WHERE (`prisoner\_id` LIKE '".$query."')") or die(mysql\_error());

if(mysql\_num\_rows($raw\_results) > 0){ // if one or more rows are returned do following

while($results = mysql\_fetch\_array($raw\_results))

echo' <table>

<thead>

<th>ID &nbsp;&nbsp;&nbsp;&nbsp;</th>

<th>Name&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;</th>

<th>Gender&nbsp;&nbsp;&nbsp;&nbsp;</th>

<th>Criminal Type&nbsp;&nbsp;&nbsp;&nbsp;</th>

<th>Age&nbsp;&nbsp;&nbsp;&nbsp;</th>

<th>Arrival Date&nbsp;&nbsp;&nbsp;&nbsp;</th>

<th>Allocated cell&nbsp;&nbsp;&nbsp;&nbsp;</th>

<th>Crime Type&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;</th>

<th>Blood Group&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;</th>

<th>Address&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;</th>

<th>Case No.&nbsp;&nbsp;&nbsp;&nbsp;</th>

<th></th>

</thead>

</table>';

;

echo "<p>".$results['prisoner\_id']."&nbsp;&nbsp;&nbsp;".$results['first\_name']."&nbsp;&nbsp;&nbsp;".$results['last\_name']."&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;".$results['gender']."&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;".$results['criminal\_type']."&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;".$results['age']."&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;".$results['arrival\_date']."&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;".$results['allocated\_cell']."&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;".$results['crime\_type']."&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;".$results['blood\_group']."&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;".$results['address']."&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;".$results['case\_no']."</p>";

}

}

else

echo "No results";

}

}

else echo "Minimum length is ".$min\_length;

}

?>

We can also DELETE DATA(row) from database .  
Example: delete prisoner.php

<?php

if(isset($\_POST['delete'])) {

$dbhost = 'localhost';

$dbuser = 'root';

$dbpass = '';

$conn = @mysql\_connect($dbhost, $dbuser, $dbpass);

if(! $conn ) {

die('Could not connect: ' . mysql\_error());

}

$prisoner\_id = $\_POST['prisoner\_id'];

$sql = "DELETE FROM prisoner WHERE prisoner\_id = $prisoner\_id" ;

mysql\_select\_db('prison');

$retval = mysql\_query( $sql, $conn );

if(! $retval ) {

die('Could not delete data: ' . mysql\_error());

}

echo "Deleted data successfully\n";

mysql\_close($conn);

}else {

?><center>

<p>

**Conclusion**:

In search query we use “ $query = mysql\_real\_escape\_string($query);”

To prevent SQLI (sql injection).  
Because this system will contain sensitive information.

Our main goal to add and manipulate Data from database.

We have two types of user. Admin will have full access (write and read) data but officer in charge only could read the data.

Thank You.