

1.1 Introduction

The COVID-19 Immunization Report Management System assists Institutes to maintain the census of Covid-19 vaccine received by the students to know the vaccination status, type of dose, date of dose, and the type of vaccine received. This data will help the management to know the vaccination status of the students and employees and when in future vaccination drives need to be conducted in college, the duration, for type of vaccine and the type of dose can easily be determined.

This system also provides a feature to store the details of student if he has been ever infected by Covid-19 along with the certificate and also provides a log feature that updates the admin whenever a student fills the infection form.

- COVID-19 Immunization Report Management System is capable of managing every data regarding the vaccine received by the student/employee.
- COVID-19 Immunization Report Management System helps Institutes Management in making effective drives because of proper flow of information from students/employees to management.
- COVID-19 Immunization Report Management System helps to keep track of the covid infected students and their dates of testing positive, it is capable of producing the data as required.

1.2 Problem Statement

This project aims at creating a COVID-19 Immunization Report Database System that makes storing and organizing data regarding COVID-19 vaccination easier. The management should have knowledge of vaccination status and its details for any use in the future. This project also aims to keep track of infected students.

2.1 Conceptual Design

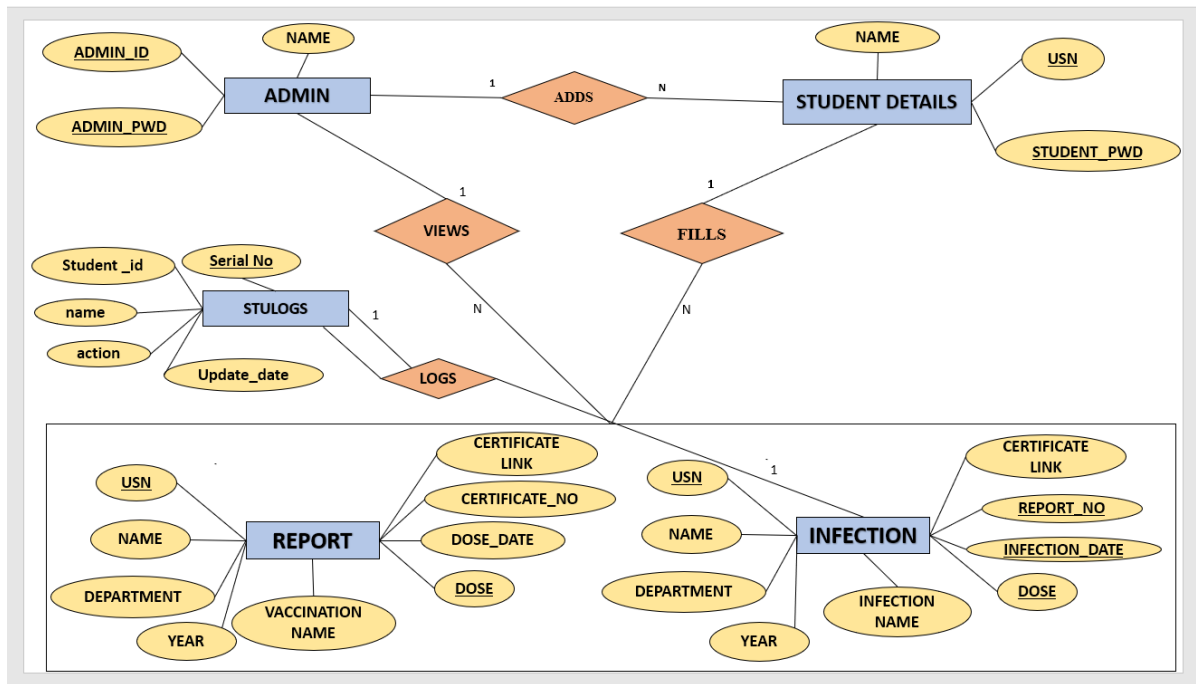


Figure 2.1 : ER Diagram for COVID-19 application

2.2 Logical Design

ADMIN (ADMIN_ID, NAME, ADMIN_PASSWORD)

STUDENT (USN, NAME, STUDENT_PASSWORD, ADMIN_ID)

REPORT (USN, NAME, DEPARTMENT, YEAR, VACCINATION NAME, DOSE, DOSE DATE, CERTIFICATE NUMBER)

INFECTION (USN, NAME, DEPARTMENT, YEAR, INFECTION NAME, DOSE RECEIVED, INFECTION DATE, REPORT NUMBER)

STUDENT LOGS (ID, STU_ID, NAME, ACTION, UDATE)

ER to Relational Mapping

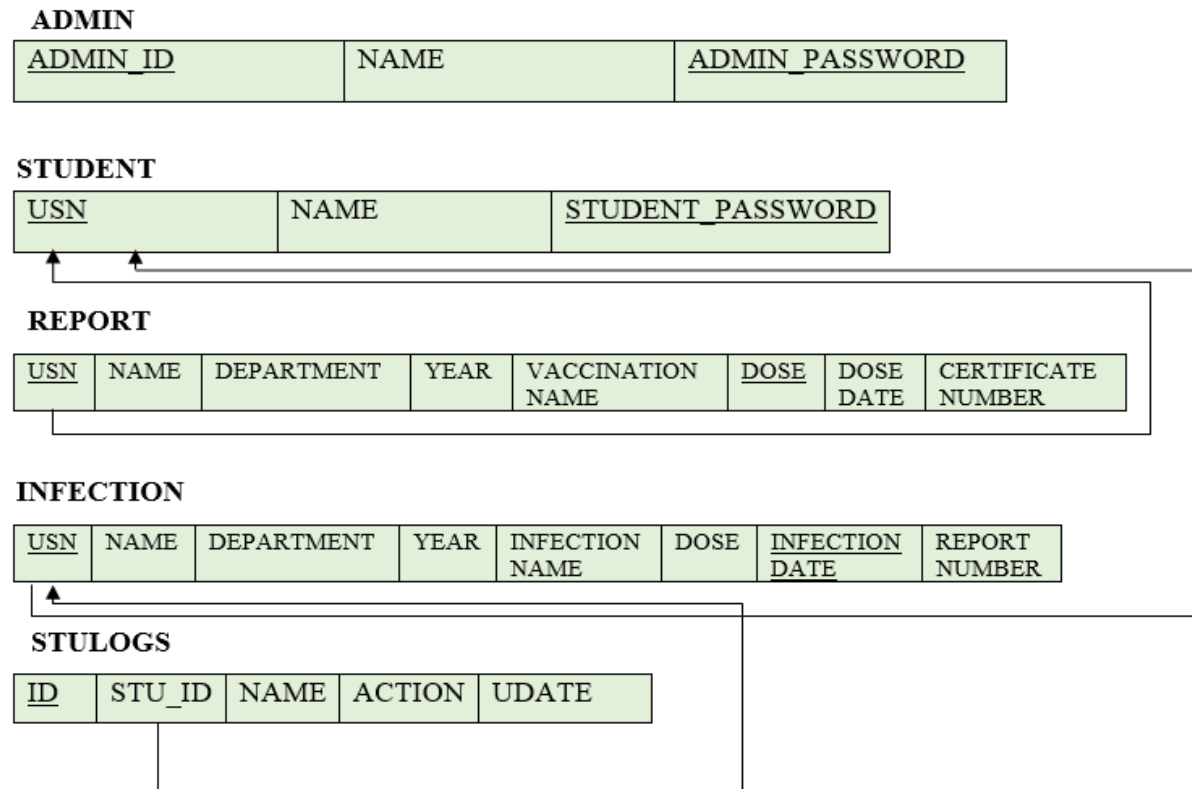


Figure 2.2 ER Mapping

2.3 Normalization

ADMIN

ADMIN_ID	NAME	ADMIN_PASSWORD
----------	------	----------------

Functional dependencies:

$(\text{ADMIN_ID}) \rightarrow (\text{ADMIN_ID}, \text{NAME}, \text{ADMIN_PASSWORD})$

$\{\text{ADMIN_ID}\} \rightarrow \{\text{ADMIN_ID}, \text{NAME}, \text{ADMIN_PASSWORD}\}$

Candidate Key = ADMIN_ID

Justification:

- The above-mentioned dependencies we can observe that the ADMIN relation is in 1NF as all the attributes are atomic in nature.
- The relation is in 2NF as all the Non-Prime attributes are fully functionally dependent on the Prime attribute and there is no partial dependency.
- The relation is also in 3NF as there is no Transitive dependency between the Non-Prime attributes and the Prime attribute.

STUDENT

USN	NAME	STUDENT_PASSWORD
-----	------	------------------

Functional dependencies:

$(\text{USN}) \rightarrow (\text{NAME}, \text{STUDENT_PASSWORD})$

$\{\text{USN}\} \rightarrow \{\text{USN}, \text{NAME}, \text{STUDENT_PASSWORD}\}$

Candidate Key=USN

Justification

- The above-mentioned dependencies we can observe that the STUDENT relation is in 1NF as all the attributes are atomic in nature.
- The relation is in 2NF as all the Non-Prime attributes are fully functionally dependent on the Prime attribute and there is no partial dependency.
- The relation is also in 3NF as there is no Transitive dependency between the Non-Prime attributes and the Prime attribute.

REPORT

<u>USN</u>	NAME	DEPARTMENT	YEAR	INFECTION_NAME	DOSE_RECEIVED	INFECTION_DATE	REPORT_NUMBER
------------	------	------------	------	----------------	---------------	----------------	---------------

Functional Dependencies:

(USN,DOSE)->(NAME,DEPARTMENT,YEAR,VACCINATION_NAME,DOSE_DATE,CERTIFICATE_NUMBER)

{USN,DOSE} += {USN,DOSE,NAME,DEPARTMENT,YEAR,VACCINATION_NAME,DOSE_DATE,CERTIFICATE_NUMBER}

Candidate key {USN,DOSE}

Justification:

- The above relation is in 1NF as all the attributes are atomic in nature.
- The relation is in 2NF as all the Non-Prime attributes are fully functionally dependent on the Prime attribute and there is no partial dependency.
- The relation is also in 3NF as there is no Transitive dependency between the Non-Prime attributes and the Prime attribute.

INFECTION

<u>USN</u>	NAME	DEPARTMENT	YEAR	INFECTION_ NAME	DOSE_ RECEIVED	INFECTION_ DATE	REPORT_ NUMBER
------------	------	------------	------	--------------------	-------------------	--------------------	-------------------

Functional Dependencies

(USN,INFECTION_NAME)->(DOSE_RECEIVED,INFECTION_DATE,
REPORT_NUMBER)

{USN,INFECTION_NAME}+= {USN,INFECTION_NAME,DOSE_RECEIVED,
INFECTION_DATE,REPORT_NUMBER}

Candidate Key: (USN,INFECTION_NAME)

Justification

- The above-mentioned dependencies we can observe that the INFECTION relation is in 1NF as all the attributes are atomic in nature.
- The relation is in 2NF as all the Non-Prime attributes are fully functionally dependent on the Prime attribute and there is no partial dependency.
- The relation is also in 3NF as there is no Transitive dependency between the Non-Prime attributes and the Prime attribute.

STULOGS

ID	STU_ID	NAME	ACTION	UDATE
----	--------	------	--------	-------

Functional Dependencies

$(ID, STU_ID) \rightarrow (NAME, ACTION, UDATE)$

$\{ID, STU_ID\} \neq \{ID, STU_ID, NAME, ACTION, UDATE\}$

Justification

- The above-mentioned dependencies we can observe that the STULOGS relation is in 1NF as all the attributes are atomic in nature.
- The relation is in 2NF as all the Non-Prime attributes are fully functionally dependent on the Prime attribute and there is no partial dependency.
- The relation is also in 3NF as there is no Transitive dependency between the Non-Prime attributes and the Prime attribute.

3.1 Screen Layout Design

Using visually attractive and simple design forms the basis of all the screen layout design and using these layouts in authentication and login makes it easy to use and user-friendly.

Screen layouts determine the overall structure of your screen. They define the structure of a harness included in a composite portal. A harness can contain only a one-screen layout.

- A screen layout is comprised of the following:
- Header Section
- Navigation Bar(is not there for some pages that require full screen)
- Content Section
- Footer Section

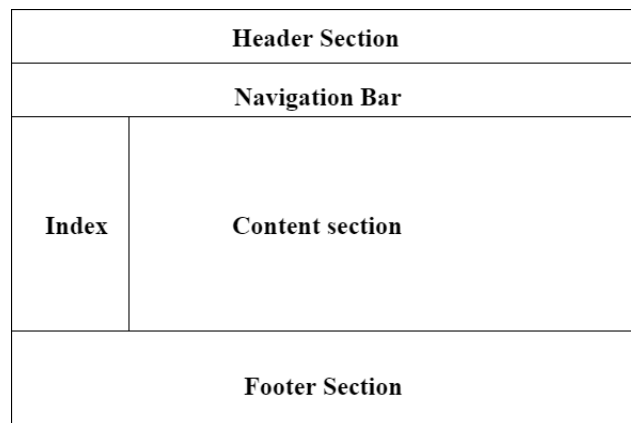


Figure 3.1 General Screen Layout

3.1 Front End Technology

The technologies that we have used for our front end design are **HTML, CSS, JAVASCRIPT, Java Server Pages (JSP), Bootstrap**

HTML: Hypertext Markup Language is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets and scripting languages such as JavaScript.

CSS: Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language such as HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

JavaScript: JavaScript is a text-based programming language used both on the client-side and server-side that allows you to make web pages interactive. Where HTML and CSS are languages that give structure and style to web pages, JavaScript gives web pages interactive elements that engage a user.

Bootstrap: Bootstrap is the most popular CSS framework for developing responsive and mobile-first websites.

Java Server Pages (JSP): Java Server Pages (JSP) is a server-side programming technology that enables the creation of a dynamic, platform-independent method building Web-based applications. JSP has access to the entire family of Java APIs, including the JDBC API to access enterprise databases.

3.2 Connectivity

For Login

```

<?php
session_start();
$con=mysqli_connect("localhost","root","");
if ($con->connect_error) {
die("Connection failed: " . $con->connect_error); }
if(isset($_POST['admin_id'])){
if(!empty($_POST["admin_id"] && $_POST["apwd"])){
$admin_id=$_POST['admin_id'];
$apwd=$_POST['apwd'];
$sql = "SELECT * FROM `vaccinationdatabase`.`admin` WHERE
admin_id='$admin_id' AND apwd='$apwd'";
$result=mysqli_query($con,$sql);
if(mysqli_num_rows($result)==1){
$_SESSION['status'] = "Login Successful";
echo "Successfully logged in";
echo "<script type='text/javascript'> $(function(){ alert('Login successful'); })
;</script> ";
header('location:admin2.php'); } else {

$_SESSION['status'] = "PLEASE ENTER CORRECT LOGIN CREDENTIALS ";
header("Location: admin.php?error=Incorrect User name or password");
echo "Incorrect credentials";

echo "Please enter correct login credentials";
echo " <script type='text/javascript'> $(function(){ alert('PLEASE ENTER CORRECT
LOGIN CREDENTIALS '); }) ;</script>";
}
}
else{
$_SESSION['status'] = "PLEASE ENTER CORRECT LOGIN CREDENTIALS ";
header("Location: admin.php?error=Incorrect User name or password");
echo "Incorrect credentials";
// header('location:admin.php');
echo "please enter login credentials";
echo "<script type='text/javascript'> alert('PLEASE ENTER CORRECT LOGIN
CREDENTIALS');</script>";
}

}?>

```

For Forms

```
<?php
$insert=false;
if(isset($_POST['rusn'])){
    $server = "localhost";
    $username = "root";
    $password = "";
    $con = mysqli_connect($server, $username, $password);

    if(!$con){
        die("connection to this database failed due to" .mysqli_connect_error());
    }
    //echo "Success connecting to the db";

    $rusn=$_POST['rusn'];
    $rname=$_POST['rname'];
    $rdept=$_POST['rdept'];
    $ryear=$_POST['ryear'];
    $rvaccinationname=$_POST['rvaccinationname'];
    $dose=$_POST['dose'];
    $dosedate=$_POST['dosedate'];
    $rCertificateNo=$_POST['rCertificateNo'];

    $sql = "INSERT INTO `vaccinationdatabase`.`report` (`rusn`, `rname`, `rdept`, `ryear`,
    `rvaccinationname`, `dose`, `dosedate`, `rCertificateNo`) VALUES ('$rusn', '$rname',
    '$rdept', '$ryear', '$rvaccinationname', '$dose', '$dosedate', '$rCertificateNo');";

    if($con->query($sql) == true){
        // echo "Successfully inserted";
        $insert = true;
        header("location:afterform.php");
    }
    else{
        echo "ERROR: $sql <br> $conn->error";
    }
    $con->close();
}
?>
```

For Queries

```
<?php
$con = mysqli_connect("localhost","root","","vaccinationdatabase");
$sql = "Select Distinct rvaccinationname from report";
$sql2="Select Distinct rdept from report";
$sql3="Select Distinct dose from report";
$sql4="Select Distinct ryear from report";

$res=mysqli_query($con, $sql);
$res2=mysqli_query($con, $sql2);
$res3=mysqli_query($con, $sql3);
$res4=mysqli_query($con, $sql4);

?>
```

4.1 Admin Module

4.1.1 Login

The admin can login with their credentials.

4.1.2 View Vaccination Reports

The admin can view the vaccination reports of students, along with filters like the vaccination name, department, dose and year of admission.

4.1.3 View Infection Reports

The admin can view the infection reports of students, along with filters like the vaccination name, department, dose and year of admission.

4.1.4 Register Student

The admin can register a new student with USN, Name and Password.

4.2 Student Module

4.2.1 Login

The student can login with the given credentials, student will be registered by the admin.

4.2.2 Fill Vaccination Form

The student can fill a form declaring his/her vaccination details along with certificate number and these details can be viewed by the admin.

4.2.3 Fill Infection Form

The student can fill a form declaring his/her covid infection details along with report number and these details can be viewed by the admin.

5.1 CREATE Statements

```
Create Table admin (  
  admin_id VARCHAR(20) ,  
  name VARCHAR(20) ,  
  apwd VARCHAR(20),  
  CONSTRAINT admin_id PRIMARY KEY (admin_id)  
);
```

```
Create student (  
  USN VARCHAR(10) ,  
  Name VARCHAR(20) ,  
  Pwd VARCHAR(20),  
  CONSTRAINT USN PRIMARY KEY (USN)  
);
```

```
Create Table Report (  
  rusn VARCHAR(10) ,  
  rname VARCHAR(40) ,  
  dept VARCHAR(40) ,  
  ryear year(4) ,  
  rvaccinationname VARCHAR(40),  
  dose VARCHAR(40),  
  dose date,  
  rCertificateNo VARCHAR(40),  
  CONSTRAINT PK PRIMARY KEY (rusn,dose),  
  CONSTRAINT FK FOREIGN KEY (usn) REFERENCES STUDENT(USN) ON  
  DELETE CASCADE  
);
```

```
Create Table infection (  
  usn VARCHAR(10) ,  
  name VARCHAR(40) ,  
  dept VARCHAR(40) ,  
  year year(4) ,  
  iname VARCHAR(40),  
  idate date,  
  rno VARCHAR(40),  
  CONSTRAINT PK1 PRIMARY KEY (usn,idate,rno)  
  CONSTRAINT FK1 FOREIGN KEY (usn) REFERENCES STUDENT(USN) ON  
  DELETE CASCADE  
  
);
```

5.2 PHP, HTML, CSS, JAVA SCRIPT CODE

Home page:

```
<!DOCTYPE html>
<html>
<head>
<title>HOME</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="icon" type="image/png" sizes="96x96" href="title.png">
<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/css/bootstrap.min.css">
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/js/bootstrap.min.js"></script>
<style >
.navbar {
margin: 0px;
border-radius: 0;
background-color: #4d4d4d;
}
.jumbotron {
margin-bottom: 0;
background-color: black;
padding: 0;

}
footer {
background-color: black;
padding: 25px;
}

#home {
color: white ;
font-size:36px;
font-family:"Comic Sans MS", cursive, sans-serif;
margin: 5px 5px;
}
#textbox{
```



```
padding: 50px 200px 10px 200px;
text-align: left;
}
```

```
.bottom-left {
position: absolute;
bottom: 50px;
left: 40%;
color: black;
font-family :cursive;
font-size: 250px;
}
</style>
```

```
</head>
<body>
<div class="jumbotron">
<div class="container text-center">
<h1 id="home">IMMUNIZATION
RECORDS</h1>
</div>
</div>

<br>
<nav class="navbar navbar-inverse">
<div class="container-fluid">

<div class="collapse navbar-collapse" id="myNavbar">
<ul class="nav navbar-nav">
<li class="active"><a href="home.php">HOME</a></li>
<li><a href="admin.php">ADMIN LOGIN</a></li>

<li><a href="student.php">STUDENT LOGIN</a></li>

</ul>
</div>
</div>
</nav>

<div class="container">
```

```

<div id="myCarousel" class="carousel slide" data-ride="carousel">
<!-- Indicators -->
<ol class="carousel-indicators">
<li data-target="#myCarousel" data-slide-to="0" class="active"></li>
<li data-target="#myCarousel" data-slide-to="1"></li>
<li data-target="#myCarousel" data-slide-to="2"></li>
</ol>

<!-- Wrapper for slides -->
<div class="carousel-inner">
<div class="item active">

<div class="bottom-left" style="font-size: 15px"><b>Total confirmed cases of COVID-19
per million people</b></div>
</div>
<div class="item">

<div class="bottom-left" style="font-size: 15px"><b>Total confirmed deaths due to
COVID-19 per million people</b></div>
</div>

<div class="item">

<div class="bottom-left" style="font-size: 15px"><b>Population fully vaccinated relative
to a country's total population</b></div>
</div>
</div>

<!-- Left and right controls -->
<a class="left carousel-control" href="#myCarousel" data-slide="prev">
<span class="glyphicon glyphicon-chevron-left"></span>
<span class="sr-only">Previous</span>
</a>
<a class="right carousel-control" href="#myCarousel" data-slide="next">
<span class="glyphicon glyphicon-chevron-right"></span>
<span class="sr-only">Next</span>
</a>
</div>
</div>
<div id="textbox" class="container-fluid" align:justify>
<p> /*content*/.</p>
</div>
<footer class="container-fluid text-center">

```

<p>@covid vaccination records</p>
</footer>

</body>
</html>

Admin login:

```
<?php
session_start();
$con=mysqli_connect("localhost","root","");
if ($con->connect_error) {
die("Connection failed: " . $con->connect_error);
}
if(isset($_POST['admin_id'])){
if(!empty($_POST["admin_id"] && $_POST["apwd"])){
$admin_id=$_POST['admin_id'];
$apwd=$_POST['apwd'];
$sql = "SELECT * FROM `vaccinationdatabase`.`admin` WHERE admin_id='$admin_id'
AND apwd='$apwd'";
$result=mysqli_query($con,$sql);
if(mysqli_num_rows($result)==1){
$_SESSION['status'] = "Login Successful";
echo "Successfully logged in";
echo "<script type='text/javascript'> $(function(){ alert('Login successful'); }) ;</script>";
header('location:admin2.php');
}
else{
$_SESSION['status'] = "PLEASE ENTER CORRECT LOGIN CREDENTIALS ";
header("Location: admin.php?error=Incorect User name or password");
echo "Incorrect credentials";

//header('location:adminlogin.php');
echo "Please enter correct login credentials";
echo " <script type='text/javascript'> $(function(){ alert('PLEASE ENTER CORRECT
LOGIN CREDENTIALS '); }) ;</script>";
}
}

else{
$_SESSION['status'] = "PLEASE ENTER CORRECT LOGIN CREDENTIALS ";
header("Location: admin.php?error=Incorrect User name or password");
```

```
echo "Incorrect credentials";
//      header('location:admin.php');
echo "please enter login credentials";
echo "<script type='text/javascript'> alert('PLEASE ENTER CORRECT LOGIN
CREDENTIALS');</script>";
}
```

```
}
?>
```

```
<!DOCTYPE html>
<html>
<head>
<title>ADMIN LOGIN</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="icon" type="image/png" sizes="96x96" href="title.png">
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.0/jquery.min.js"></script>
<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/css/bootstrap.min.css">
```

```
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/js/bootstrap.min.js"></script>
<style >
.navbar {
margin: 0px;
border-radius: 0;
background-color: #4d4d4d
}
.jumbotron {
margin-bottom: 0;
background-color: black;
padding: 0;

}
footer {
background-color: black;
padding: 25px;
color: white;
}

#home {
```

```

color: white ;
font-size:36px;
font-family:"Comic Sans MS", cursive, sans-serif;
margin: 5px 5px;
}

</style>
</head>
<body>
<div class="jumbotron">
<div class="container text-center">
<h1 id="home">IMMUNIZATION
RECORDS</h1>
</div>
</div>

<br>
<nav class="navbar navbar-inverse">
<div class="container-fluid">

<div class="collapse navbar-collapse" id="myNavbar">
<ul class="nav navbar-nav">
<li><a href="home.php">HOME</a></li>
<li class="active"><a href="admin.php">ADMIN LOGIN</a></li>

<li><a href="student.php">STUDENT LOGIN</a></li>

</ul>
</div>
</div>
</nav>
<div class="container well well-lg" style="margin: 50px 400px 150px 100px;
width:600px;">

<form action= "admin.php" method="POST" width="50%">
<div class="form-group">
<label for="admin_id">ADMIN-ID:</label>
<input type="text" class="form-control" id="admin_id" placeholder="Enter User Id"
name="admin_id">
</div>
<div class="form-group">

```

```

<label for="apwd">PASSWORD:</label>
<input type="password" class="form-control" id="apwd" placeholder="Enter password"
name="apwd">
</div>

```

```

<button type="submit" class="btn btn-success" >LOGIN</button>

```

```

</form>
</div>
<footer class="container-fluid text-center">
<p>@covid vaccination records</p>
</footer>
</body>
</html>

```

After Admin Login:

```

<?php
session_start();

echo "";

?>

<!DOCTYPE html>
<html lang="en">
<head>
<title>ADMIN</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="icon" type="image/png" sizes="96x96" href="title.png">
<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/css/bootstrap.min.css">
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/js/bootstrap.min.js"></script>
<style>
/* Remove the navbar's default margin-bottom and rounded borders */
.navbar {
margin-bottom: 0;
border-radius: 0;
}

/* Set height of the grid so .sidenav can be 100% (adjust as needed) */

```

```
.row.content {height: 600px;}
```

```
/* Set gray background color and 100% height */
```

```
.sidenav {
padding:20px 20px 40px 30px;
background-color: #ffff00;
color: #000000;
font-family: Impact, Charcoal, sans-serif,monospace;
height: 100%;
font-weight: italic;
}
```

```
/* Set black background color, white text and some padding */
```

```
footer {
background-color: #000000;
color: white;
padding: 15px;
margin-bottom:0px;
}
```

```
/* On small screens, set height to 'auto' for sidenav and grid */
```

```
@media screen and (max-width: 767px) {
```

```
.sidenav {
height: auto;
padding: 15px;
}
.row.content {height:auto;}
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<nav class="navbar navbar-inverse">
```

```
<div class="container-fluid">
```

```
<div class="navbar-header">
```

```
<a class="navbar-brand" style="color:#00ff00;font-family: Arial, Helvetica, sans-serif;
font-weight: 900;">IMMUNIZATION RECORDS</a>
```

```
</div>
```

```
<div class="collapse navbar-collapse" id="myNavbar">
```

```
<ul class="nav navbar-nav navbar-right">
```

```
<li><a href="logout.php"><span class="glyphicon glyphicon-log-in"></span>
Logout</a></li>
</ul>
</div>
</div>
</nav>

<div class="container-fluid text-center">
<div class="row content">
<div class="col-sm-2 sidenav">
<p><a href="register.php">New Student Registration</a></p>
<p><a href="report.php">View Vaccination Reports</a></p>
<p><a href="report2.php">View Infection Reports</a></p>

</div>
<div class="col-sm-8 text-center">
<h1 style="font-size: 50px;"><b>Welcome to Immunization Records Database</b></h1>
<h2 style="font-size: 40px;"><b>WELCOME ADMINISTRATOR!</b></h2>
<ul style="text-align: left; font-size: 20px; font-family: Arial, Helvetica, sans-serif; ">
<li>Administrator can register new student </li>
<li>Administrator can view the vaccination reports of students</li>

</ul>
</p>
</div>
</div>
</div>

<footer class="container-fluid text-center" style="margin-bottom: 0px;">
<p>@covid vaccination records</p>
</footer>

</body>
</html>
```


Student login and after login page, code is similar to admin login and after admin login page.

Vaccination Form:

```
<?php
$insert=false;
if(isset($_POST['rusn'])){
    $server = "localhost";
    $username = "root";
    $password = "";
    $con = mysqli_connect($server, $username, $password);

    if(!$con){
        die("connection to this database failed due to" .mysqli_connect_error());
    }
    //echo "Success connecting to the db";

    $rusn=$_POST['rusn'];
    $rname=$_POST['rname'];
    $rdept=$_POST['rdept'];
    $ryear=$_POST['ryear'];
    $rvaccinationname=$_POST['rvaccinationname'];
    $dose=$_POST['dose'];
    $dosedate=$_POST['dosedate'];
    $rCertificateNo=$_POST['rCertificateNo'];

    $sql = "INSERT INTO `vaccinationdatabase`.`report` (`rusn`, `rname`, `rdept`, `ryear`,
    `rvaccinationname`, `dose`, `dosedate`, `rCertificateNo`) VALUES ('$rusn', '$rname',
    '$rdept', '$ryear', '$rvaccinationname', '$dose', '$dosedate', '$rCertificateNo');";

    if($con->query($sql) == true){
        // echo "Successfully inserted";
        $insert = true;
        header("location:afterform.php");
    }
    else{
        echo "ERROR: $sql <br> $conn->error";
    }
    $con->close();
}
```

?>

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>STUDENT</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="icon" type="image/png" sizes="96x96" href="title.png">
<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/css/bootstrap.min.css">
<link rel="icon" type="image/png" sizes="96x96" href="title.png">
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/js/bootstrap.min.js"></script>
<style>
/* Remove the navbar's default margin-bottom and rounded borders */
.navbar {
margin-bottom: 0;
border-radius: 0;
}
/* Set height of the grid so .sidenav can be 100% (adjust as needed) */
.row.content {height: 600px;}

/* Set gray background color and 100% height */
.sidenav {
padding:20px 20px 40px 30px;
background-color: #ffff00;
color: #000000;
font-family: Impact, Charcoal, sans-serif,monospace;
height: 300%;
font-weight: italic;
}
/* Set black background color, white text and some padding */
footer {
background-color: #000000;
color: white;
padding: 15px;
margin-bottom:0px;
}
```

```

/* On small screens, set height to 'auto' for sidenav and grid */
@media screen and (max-width: 767px) {
.sidenav {
height: auto;
padding: 15px;
}
.row.content {height:auto;}
}
input{
width:0px;
}
</style>
</head>
<body>

```

```

<nav class="navbar navbar-inverse">
<div class="container-fluid">
<div class="navbar-header">
<a class="navbar-brand" style="color:#00ff00;font-family: Arial, Helvetica, sans-serif;
font-weight: 900;">Immunization Reports</a>
</div>
<div class="collapse navbar-collapse" id="myNavbar">
<ul class="nav navbar-nav navbar-right">
<li><a href="logout.php"><span class="glyphicon glyphicon-log-in"></span>
Logout</a></li>
</ul>
</div>
</div>
</nav>

```

```

<div class="container-fluid text-center">
<div class="row content">
<div class="col-sm-2 sidenav">
<p><a href="student2.php">Go Back Home</a></p>
<p><a href="form.php">Submit Vaccination Form</a></p>
<p><a href="infection.php">Submit Infection Form</a></p>
</div>
<div class="col-sm-8 text-center">
<h1 style="font-size: 50px;"><b>Welcome to Immunization Reports</b></h1>
<h2 style="font-size: 40px; text-decoration: underline;color: blue"><b>Submit
Vaccination Form</b></h2>

```

```
<div class="container well well-lg text-left" style="margin: 50px 400px 150px 100px; width: 500px;">
<form action="form.php" method="post" width="50%">

<div class="form-group">
<label for="rusn">* USN:</label>
<input type="text" class="form-control" id="rusn" placeholder="Enter Your USN"
name="rusn" required>
</div>
<div class="form-group">
<label for="rname">* NAME:</label>
<input type="text" class="form-control" id="rname" placeholder="Enter Your Name"
name="rname" required>
</div>

<div class="form-group">
<label for="rdept">* DEPARTMENT:</label>
<select name="rdept" required>
<option value="N/A">N/A</option>
<option value="CSE">CSE</option>
<option value="ISE">ISE</option>
<option value="ECE">ECE</option>
<option value="EEE">EEE</option>
<option value="ME">ME</option>
<option value="TE">TE</option>
</select>
</div>

<div class="form-group">
<label for="ryear">* ADMISSION YEAR:</label>
<select name="ryear" id="ryear" required>
<option value="N/A">N/A</option>
<option value="2016">2016</option>
<option value="2017">2017</option>
<option value="2018">2018</option>
<option value="2019">2019</option>
<option value="2020">2020</option>
<option value="2021">2021</option>
<option value="2022">2022</option>

</select>
```

</div>

```
<div class="form-group">
  <label for="rvaccinationname">* VACCINE NAME:</label>
  <select class="flow-control" name="rvaccinationname" id="rvaccinationname"
    required>
    <option value="N/a">N/A</option>
    <option value="CovidShield">CovidShield</option>
    <option value="Covaxin">Covaxin</option>
    <option value="Sputnik V">Sputnik V</option>
  </select>
</div>
```

```
<div class="form-group">
  <label for="dose">* VACCINATION DOSE</label>
  <select class="flow-control" name="dose" id="dose" required>
    <option>1</option>
    <option>2</option>
    <option>Booster Dose 1</option>
    <option>Booster Dose 2</option>
    <option>Booster Dose 3</option>
    <option>Booster Dose 4</option>
    <option>Booster Dose 5</option>
    <option>Booster Dose 6</option>
  </select>
</div>
```

```
<div class="form-group">
  <label for="dosedate">* Dose Date:</label>
  <input type="date" class="form-control" id="dosedate" placeholder="Enter Dose Date"
    name="dosedate" required>
</div>
```

```
<div class="form-group">
  <label for="rCertificateNo">* Certificate Number:</label>
  <input type="text" class="form-control" id="rCertificateNo" placeholder="Enter
    Vaccination Certificate Number" name="rCertificateNo" required>
</div>
```

```
<button type="submit" class="btn" style="font: size 15px;pt;color:white; border-radius:
  12px;background-color:green;border:1px solid #336600;padding:15px" >
  Submit</button>
```

```

</form>
</div>
</p>
</div>
</div>
</div>

<footer class="container-fluid text-center" style="margin-bottom: 0px;">
<p>@covid vaccination records</p>
</footer>

</body>
</html>

```

Vaccination Report Generation

1. Without Filters

```

< !DOCTYPE html>
<html lang="en">
<head>
<title>ADMIN</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/css/bootstrap.min.css">
<link rel="icon" type="image/png" sizes="96x96" href="title.png">
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/js/bootstrap.min.js"></script>
<style>
/* Remove the navbar's default margin-bottom and rounded borders */
.navbar {
margin-bottom: 0;
border-radius: 0;
}

/* Set height of the grid so .sidenav can be 100% (adjust as needed) */
.row.content {height: 600px;}

```

```

/* Set gray background color and 100% height */
.sidenav {
padding:20px 20px 40px 30px;
background-color: #ffff00;
color: #000000;
font-family: Impact, Charcoal, sans-serif,monospace;
height: 200%;
font-weight: italic;
}

/* Set black background color, white text and some padding */
footer {
background-color: #000000;
color: white;
padding: 15px;
margin-bottom:0px;
}

/* On small screens, set height to 'auto' for sidenav and grid */
@media screen and (max-width: 767px) {
.sidenav {
height: 100;
padding: 15px;
}
.row.content {height:auto;}
}
</style>
</head>
<body>

<nav class="navbar navbar-inverse">
<div class="container-fluid">
<div class="navbar-header">
<a class="navbar-brand" style="color:#00ff00;font-family: Arial, Helvetica, sans-serif;
font-weight: 900;">IMMUNIZATION RECORDS</a>
</div>
<div class="collapse navbar-collapse" id="myNavbar">
<ul class="nav navbar-nav navbar-right">
<li><a href="logout.php"><span class="glyphicon glyphicon-log-in"></span>
Logout</a></li>

```

```

</ul>
</div>
</div>
</nav>
<div class="row content">
<div class="col-sm-2 sidenav">
<p><a href="admin2.php">Go to home page</a></p>
<p class="active"><a href="report.php">View Vacciantion Report</a></p>
<p><a href="onname.php">Report on Vaccine Name</a></p>
<p><a href="ondept.php">Report on Departmentwise</a></p>

<p><a href="onyear.php">Report on Yearwise</a></p>
<p><a href="on2.php">Report on Vaccine and Department</a></p>
<p><a href="complex.php">Complex Queiries</a></p>
</div>
<div class="col-sm-8 text-center">
<h2 style="color:blue;text-decoration: underline;">Vaccination Report Details</h2>
<table class="table table-bordered">
<thead style="background-color:#ffffff;color: #000000;">
<tr>
<th>Serial No.
<th>USN</th>
<th>NAME</th>
<th>DEPARTMENT</th>
<th>VACCINE NAME</th>
<th>DOSE</th>
<th>DOSE DATE</th>
<th>CERTIFICATE NUMBER</th>
</tr>
</thead>
<tbody>
<?php
$db=mysqli_connect("localhost","root","","vaccinationdatabase");
if ($db->connect_error) {
die("Connection failed: " . $db->connect_error);}

$sql="SELECT * FROM report";
$result=mysqli_query($db,$sql) or die("Bad query:");
$no=1; //auto numbering
while($row=mysqli_fetch_assoc($result)){

```



```

echo "<tr><td>
{$no}</td><td>{$row['rusn']}</td><td>{$row['rname']}</td><td>{$row['rdept']}</td><
td>{$row['rvaccinationname']}</td><td><b>{$row['dose']}</b></td><td>{$row['dosed
ate']}</td><td>{$row['rCertificateNo']}</td></tr>";
$no++;
}

?>
</tbody>
</table>
</div>
</div>
</div>

```

2. With Filters

MAIN PHP:

```

<?php
$con = mysqli_connect("localhost","root","","vaccinationdatabase");
$sql = "Select Distinct rvaccinationname from report";
$sql2="Select Distinct rdept from report";
$sql3="Select Distinct dose from report";
$sql4="Select Distinct ryear from report";

$res=mysqli_query($con, $sql);
$res2=mysqli_query($con, $sql2);
$res3=mysqli_query($con, $sql3);
$res4=mysqli_query($con, $sql4);

?>

<!DOCTYPE html>
<html lang="en">
<head>
<title>ADMIN</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/css/bootstrap.min.css">
<link rel="icon" type="image/png" sizes="96x96" href="title.png">

```

```
<script type="text/javascript" src="js\complex.js"></script>
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/js/bootstrap.min.js"></script>
<style>
/* Remove the navbar's default margin-bottom and rounded borders */
.navbar {
margin-bottom: 0;
border-radius: 0;
}

/* Set height of the grid so .sidenav can be 100% (adjust as needed) */
.row.content {height: 600px;}

/* Set gray background color and 100% height */
.sidenav {
padding:20px 20px 40px 30px;
background-color: #ffff00;
color: #000000;
font-family: Impact, Charcoal, sans-serif,monospace;
height: 200%;
font-weight: italic;
}

/* Set black background color, white text and some padding */
footer {
background-color: #000000;
color: white;
padding: 15px;
margin-bottom:0px;
}

/* On small screens, set height to 'auto' for sidenav and grid */
@media screen and (max-width: 767px) {
.sidenav {
height: 100;
padding: 15px;
}
.row.content {height:auto;}
}
</style>
```

```

</head>
<body>

<nav class="navbar navbar-inverse">
<div class="container-fluid">
<div class="navbar-header">
<a class="navbar-brand" style="color:#00ff00;font-family: Arial, Helvetica, sans-serif;
font-weight: 900;">IMMUNIZATION RECORDS</a>
</div>
<div class="collapse navbar-collapse" id="myNavbar">
<ul class="nav navbar-nav navbar-right">
<li><a href="logout.php"><span class="glyphicon glyphicon-log-in"></span>
Logout</a></li>
</ul>
</div>
</div>
</nav>

<div class="row content">
<div class="col-sm-2 sidenav">
<p><a href="admin2.php">Go to home page</a></p>

<p><a href="report.php">View Vacciantion Report</a></p>
<p><a href="onname.php">Report on Vaccine Name</a></p>
<p><a href="ondept.php">Report on Departmentwise</a></p>
<p><a href="ondose.php">Report on Dosewise</a></p>
<p><a href="onyear.php">Report on Yearwise</a></p>
<p class="active"><a href="on2.php">Report on Vaccine and Department</a></p>
<p><a href="complex.php">Complex Queiries</a></p>

</div>
<div class="col-lg-8 mb-4 mb-lg-0">
<div class="filter-section mb-2 mob-filter-show">
<form id="reportFilter">
<div class="row">

<div class="col-md-4">
<div class="form-group">
<label>Vaccine Name</label>

```

```

<select class="form-control" id="vaccine" onchange="selectVD()">
<option>Select Vaccine Name</option>
<?php while( $rows = mysqli_fetch_array($res)){
?>
<option value="<?php echo $rows['rvaccinactionname']; ?>" ><?php echo
$rows['rvaccinactionname'];?></option>
<?php
}
?>
</select>
</div>
</div>

```

```

<div class="col-md-4">
<div class="form-group">
<label>Department</label>
<select class="form-control" id="department" onchange="selectVD()">
<option>Select Department</option>
<?php while( $rows = mysqli_fetch_array($res2)){
?>

<option value="<?php echo $rows['rdept']; ?>" ><?php echo $rows['rdept'];?></option>
<?php
}
?>
</select>
</div>
</div>

```

```

<div class="col-md-4">
<div class="form-group">
<label>Dose</label>
<select class="form-control" id="dose" onchange="selectVD()">
<option>Select Dose</option>
<?php while( $rows = mysqli_fetch_array($res3)){
?>

<option value="<?php echo $rows['dose']; ?>" ><?php echo $rows['dose'];?></option>
<?php
}

```

```

?>
</select>
</div>
</div>

<div class="col-md-4">
<div class="form-group">
<label>Year</label>
<select class="form-control" id="year" onchange="selectVD()">
<option>Select Year</option>
<?php while( $rows = mysqli_fetch_array($res4)){
?>

<option value="<?php echo $rows['ryear']; ?>" ><?php echo $rows['ryear'];?></option>
<?php
}
?>
</select>
</div>
</div>

</div>
</form>
</div>

<div class="col-sm-8 text-center">
<h2 style="color:blue;text-decoration: underline;">Vaccination Report Details</h2>
<table class="table table-bordered">
<thead style="background-color:#ffffff;color: #000000;">
<tr>
<th>Serial No</th>
<th>USN</th>
<th>NAME</th>
<th>DEPARTMENT</th>
<th>VACCINE NAME</th>
<th>DOSE</th>
<th>DOSE DATE</th>
<th>CERTIFICATE NUMBER</th>
</tr>
</thead>

```

```
<tbody id="ans">
```

```
</tbody>
```

```
</table>
```

```
</div>
```

```
</div>
```

```
</div>
```

```
</body>
```

```
</html>
```

AJAX JS:

```
function selectVD(){
```

```
var x = document.getElementById("vaccine").value;
```

```
var x2 = document.getElementById("department").value;
```

```
var x3 = document.getElementById("dose").value;
```

```
var x4 = document.getElementById("year").value;
```

```
$.ajax({
```

```
url:"showcomplex.php",
```

```
method:"POST",
```

```
data:{
```

```
id : x,
```

```
id2 : x2,
```

```
id3 : x3,
```

```
id4 : x4
```

```
},
```

```
success:function(data){
```

```
$("#ans").html(data);
```

```
}
```

```
})
```

```
}
```

QUERY EXCECUTING PHP

```
<?php
```

```
$k = $_POST['id'];
```

```
$k2=$_POST['id2'];
```

```
$k3=$_POST['id3'];
```

```

$k4=$_POST['id4'];
$k = trim($k);
$k2 = trim($k2);
$k3 = trim($k3);
$k4 = trim($k4);
$con = mysqli_connect("localhost","root","","vaccinationdatabase");
$sql = "SELECT * FROM `report` where rvaccinationname='{ $k }' and rdept='{ $k2 }'
and dose='{ $k3 }' and ryear='{ $k4 }'";
$res=mysqli_query($con, $sql);

```

```

$no = 1; //auto numbering

```

```

while($rows = mysqli_fetch_array($res)){
?> <tr>
<td><?php echo $no ;?></td>
<td><?php echo $rows['rusn']; ?></td>
<td><?php echo $rows['rname']; ?></td>
<td><?php echo $rows['rdept']; ?></td>
<td><?php echo $rows['rvaccinationname']; ?></td>
<td><?php echo $rows['dose']; ?></td>
<td><?php echo $rows['dosedate']; ?></td>
<td><?php echo $rows['rCertificateNo'] ?></td>
</tr>
}

<?php
$no++; }
//echo $sql;
echo "no rows selected";
?>

```

Infection Report Generation with filters and without filters, is similar to vaccination report generation.

Student Log

```

<!DOCTYPE html>
<html lang="en">
<head>
<title>ADMIN</title>

```

```
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/css/bootstrap.min.css">
<link rel="icon" type="image/png" sizes="96x96" href="title.png">
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js"></script>
<script
src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.0/js/bootstrap.min.js"></script>
<style>
/* Remove the navbar's default margin-bottom and rounded borders */
.navbar {
margin-bottom: 0;
border-radius: 0;
}

/* Set height of the grid so .sidenav can be 100% (adjust as needed) */
.row.content {height: 600px;}

/* Set gray background color and 100% height */
.sidenav {
padding:20px 20px 40px 30px;
background-color: #ffff00;
color: #000000;
font-family: Impact, Charcoal, sans-serif,monospace;
height: 200%;
font-weight: italic;
}
/* Set black background color, white text and some padding */
footer {
background-color: #000000;
color: white;
padding: 15px;
margin-bottom:0px;
}
/* On small screens, set height to 'auto' for sidenav and grid */
@media screen and (max-width: 767px) {
.sidenav {
height: 100;
padding: 15px;
}
.row.content {height:auto;}
```



```

}
</style>
</head>
<body>
<nav class="navbar navbar-inverse">
<div class="container-fluid">
<div class="navbar-header">
<a class="navbar-brand" style="color:#00ff00;font-family: Arial, Helvetica, sans-serif;
font-weight: 900;">IMMUNIZATION RECORDS</a>
</div>
<div class="collapse navbar-collapse" id="myNavbar">
<ul class="nav navbar-nav navbar-right">
<li><a href="logout.php"><span class="glyphicon glyphicon-log-in"></span>
Logout</a></li>
</ul>
</div>
</div>
</nav>
<div class="row content">
<div class="col-sm-2 sidenav">
<p><a href="admin2.php">Go to home page</a></p>
<p><a href="log.php">View Recent Log Details on Infection Table</a></p>
</div>
<div class="col-sm-8 text-center">
<h2 style="color:blue;text-decoration: underline;">Infection Report Log Details</h2>
<table class="table table-bordered">
<thead style="background-color:#ffffff;color: #000000;">
<tr>
<th>Serial No.</th>
<th>USN</th>
<th>NAME</th>
<th>ACTION</th>
<th>DATE & TIME </th>
</tr>
</thead>
<tbody>
<?php
$db=mysqli_connect("localhost","root","","vaccinationdatabase");
if ($db->connect_error) {
die("Connection failed: " . $db->connect_error);
}

```

```
$sql="SELECT * FROM stulogs";
$result=mysqli_query($db,$sql) or die("Bad query:");
while($row=mysqli_fetch_assoc($result)){
echo
"<tr><td>{$row['id']}</td><td>{$row['stu_id']}</td><td>{$row['name']}</td><td>{$row['action']}</td><td><b>{$row['update']}</b></td></tr>";
}
?>
</tbody>
</table>
</div>
</div>
</div>
</body>
</html>
```

SNAPSHOTS

WEB PAGES

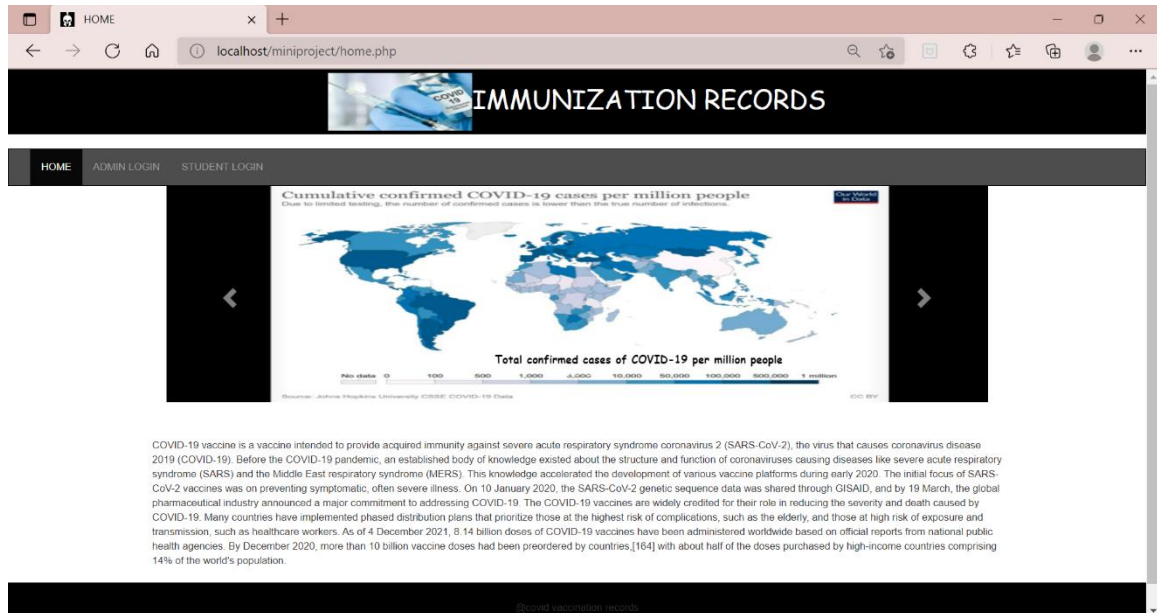


Figure 6.2 Home page

The screenshot shows a web browser window with the address bar displaying 'localhost/miniproject/admin.php'. The page has a dark header with the title 'IMMUNIZATION RECORDS' and a navigation bar with links for 'HOME', 'ADMIN LOGIN', and 'STUDENT LOGIN'. The main content area features a login form with fields for 'ADMIN-ID:' (Enter User Id) and 'PASSWORD:' (Enter password), and a 'LOGIN' button. At the bottom, there is a footer with the text '@covid vaccination records'.

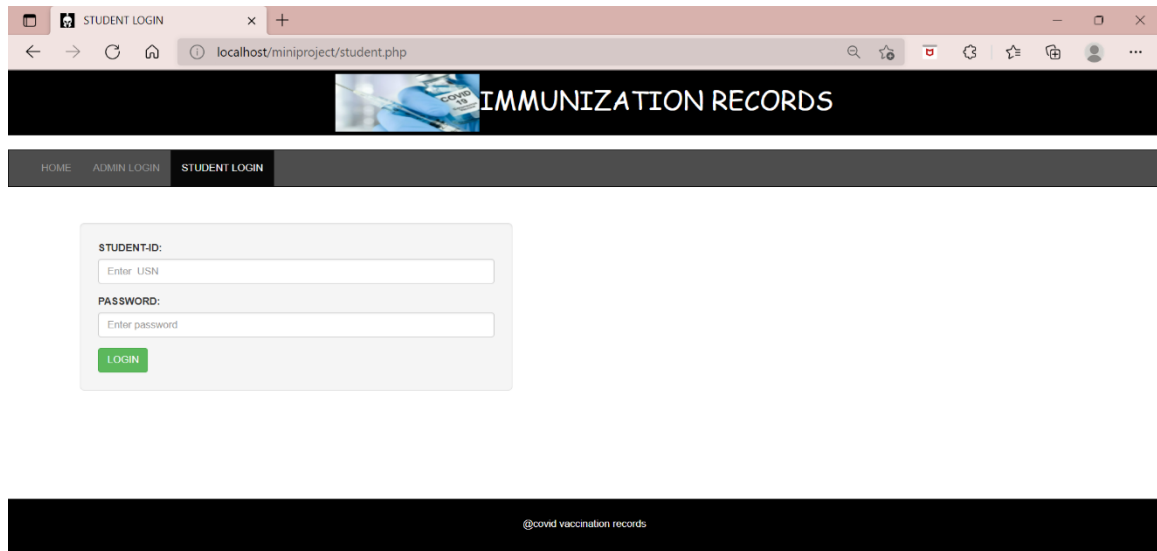
ADMIN-ID:
Enter User Id

PASSWORD:
Enter password

LOGIN

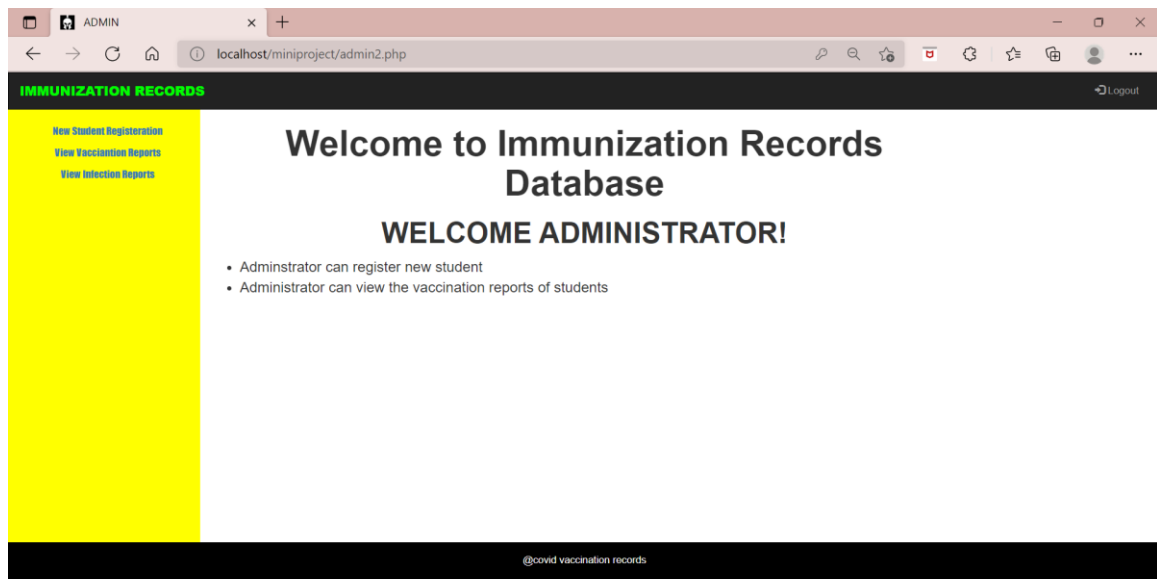
@covid vaccination records

Figure 6.3 Admin login portal



The screenshot shows a web browser window with the address bar displaying 'localhost/miniproject/student.php'. The page has a dark header with the text 'IMMUNIZATION RECORDS' and a navigation bar with links for 'HOME', 'ADMIN LOGIN', and 'STUDENT LOGIN'. Below the navigation bar is a login form with two input fields: 'STUDENT-ID:' with a placeholder 'Enter USN' and 'PASSWORD:' with a placeholder 'Enter password'. A green 'LOGIN' button is positioned below the password field. At the bottom of the page, there is a black footer with the text '@covid vaccination records'.

Figure 6.4 Student login portal



The screenshot shows a web browser window with the address bar displaying 'localhost/miniproject/admin2.php'. The page has a dark header with the text 'IMMUNIZATION RECORDS' and a 'Logout' link. On the left side, there is a yellow sidebar with three links: 'New Student Registration', 'View Vaccination Reports', and 'View Infection Reports'. The main content area has a large heading 'Welcome to Immunization Records Database' and a sub-heading 'WELCOME ADMINISTRATOR!'. Below the sub-heading, there is a list of two bullet points: 'Administrator can register new student' and 'Administrator can view the vaccination reports of students'. At the bottom of the page, there is a black footer with the text '@covid vaccination records'.

Figure 6.5 Admin Home Page

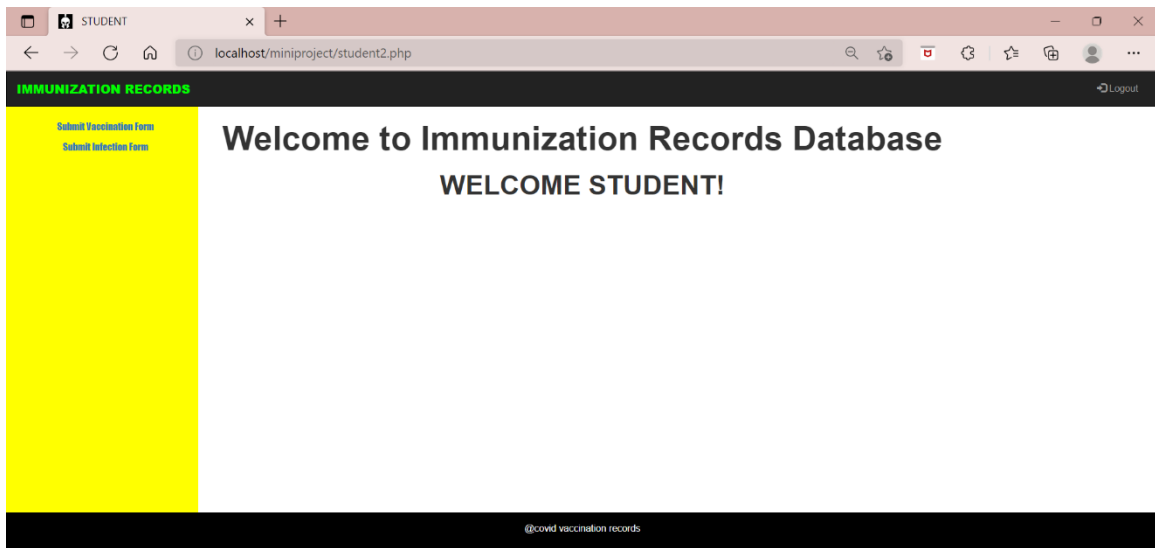


Figure 6.6 Student Home Page

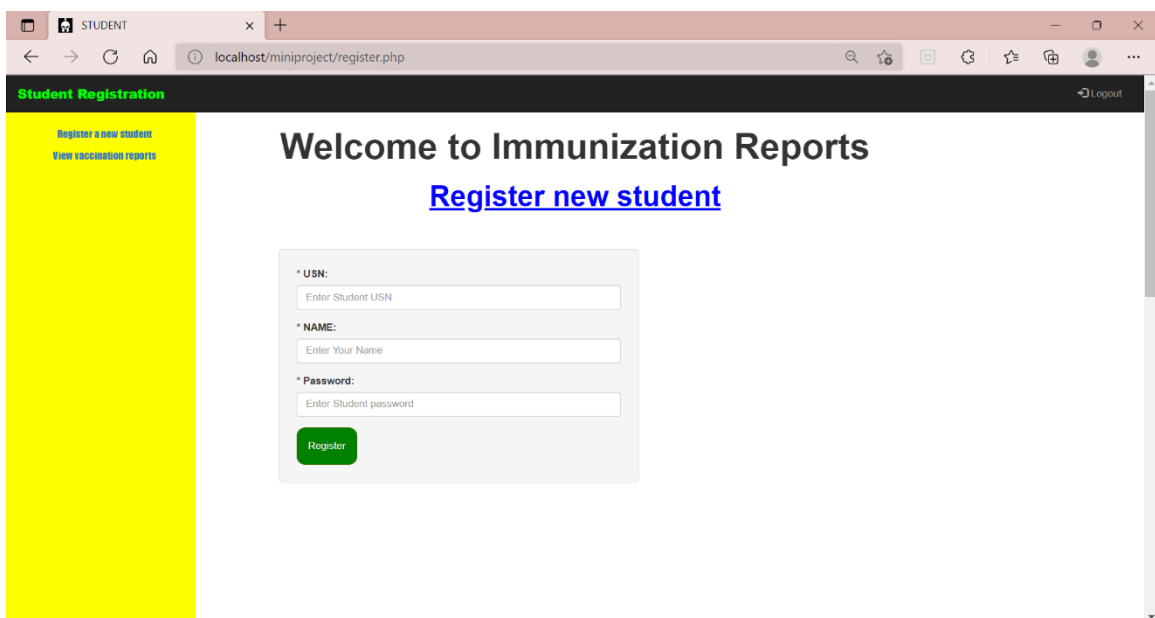


Figure 6.7 Student Registration Page

IMMUNIZATION RECORDS

[Go to home page](#)
[View Vaccination Report](#)
[Report on Vaccine Name](#)
[Report on Departmentwise](#)
[Report on Yearwise](#)
[Report on Vaccine and Department](#)
[Complex Queries](#)

[Vaccination Report Details](#)

Serial No.	USN	NAME	DEPARTMENT	VACCINE NAME	DOSE	DOSE DATE	CERTIFICATE NUMBER	CERTIFICATE LINK
1	1BI18CS120	Pooja Sridhar	CSE	Covaxin	1	2021-05-21	987438764239	View Certificate
2	1BI18CS120	Pooja Sridhar	CSE	Covaxin	2	2021-08-13	939484878776278	View Certificate
3	1BI19CS010	Akansha Kedia	CSE	CovidShield	1	2021-05-25	83998816202700	View Certificate
4	1BI19CS010	Akansha Kedia	CSE	CovidShield	2	2021-08-19	83998816202700	View Certificate
5	1BI19CS143	Shreshita B Suyog	CSE	CovidShield	1	2021-07-03	35641111959560	View Certificate
6	1BI19CS143	Shreshita B Suyog	CSE	CovidShield	2	2021-10-09	35641111959560	View Certificate
7	1BI19CS144	Shreya Mohan	CSE	CovidShield	1	2021-06-04	89245813499010	View Certificate
8	1BI19CS144	Shreya Mohan	CSE	CovidShield	2	2021-09-06	89245813499010	View Certificate
9	1BI19CS148	Sneha Praveen	CSE	CovidShield	1	2021-07-31	22131041930	View Certificate
10	1BI19CS148	Sneha Praveen	CSE	CovidShield	2	2021-11-30	22131041930	View Certificate
11	1BI19CS152	Sri Devi B S	CSE	CovidShield	1	2021-07-04	16265446579655	View Certificate
12	1BI19CS152	Sri Devi B S	CSE	CovidShield	2	2021-08-12	16265446579655	View Certificate

Figure 6.8 Vaccination Report Page: Without Filter

IMMUNIZATION RECORDS

[Go to home page](#)
[View Vaccination Report](#)
[Report on Vaccine Name](#)
[Report on Departmentwise](#)
[Report on Yearwise](#)
[Report on Vaccine and Department](#)
[Complex Queries](#)

Vaccine Name: CovidShield Dose: 1

[Vaccination Report Details](#)

Serial No	USN	NAME	DEPARTMENT	VACCINE NAME	DOSE	DOSE DATE	CERTIFICATE NUMBER	CERTIFICATE LINK
1	1BI19CS010	Akansha Kedia	CSE	CovidShield	1	2021-05-25	83998816202700	View Certificate
2	1BI19CS143	Shreshita B Suyog	CSE	CovidShield	1	2021-07-03	35641111959560	View Certificate
3	1BI19CS144	Shreya Mohan	CSE	CovidShield	1	2021-06-04	89245813499010	View Certificate
4	1BI19CS148	Sneha Praveen	CSE	CovidShield	1	2021-07-31	22131041930	View Certificate
5	1BI19CS152	Sri Devi B S	CSE	CovidShield	1	2021-07-04	16265446579655	View Certificate
6	1BI19CS166	Tanvi Chandan	CSE	CovidShield	1	2021-05-23	16294614756743	View Certificate

Figure 6.9 Vaccination Report Page With Vaccination Name and Dose Filter

ADMIN | localhost/miniproject/on2.php

IMMUNIZATION RECORDS | Logout

Go to home page
View Vaccination Report
Report on Vaccine Name
Report on Departmentwise
Report on Yearwise
Report on Vaccine and Department
Complex Queries

Vaccine Name: Covaxin | Department: ME | Dose: 2

[Vaccination Report Details](#)

Serial No	USN	NAME	DEPARTMENT	VACCINE NAME	DOSE	DOSE DATE	CERTIFICATE NUMBER	CERTIFICATE LINK
1	1BI19ME121	Harsh S	ME	Covaxin	2	2021-11-19	93840241483	View Certificate
2	1BI19ME123	Divya Anand	ME	Covaxin	2	2022-02-01	2375489732853	View Certificate

Figure 6.10 Vaccination Report Page: With Vaccination Name, Dose and Department Filter

ADMIN | localhost/miniproject/complex.php

IMMUNIZATION RECORDS | Logout

Go to home page
View Vaccination Report
Report on Vaccine Name
Report on Departmentwise
Report on Yearwise
Report on Vaccine and Department
Complex Queries

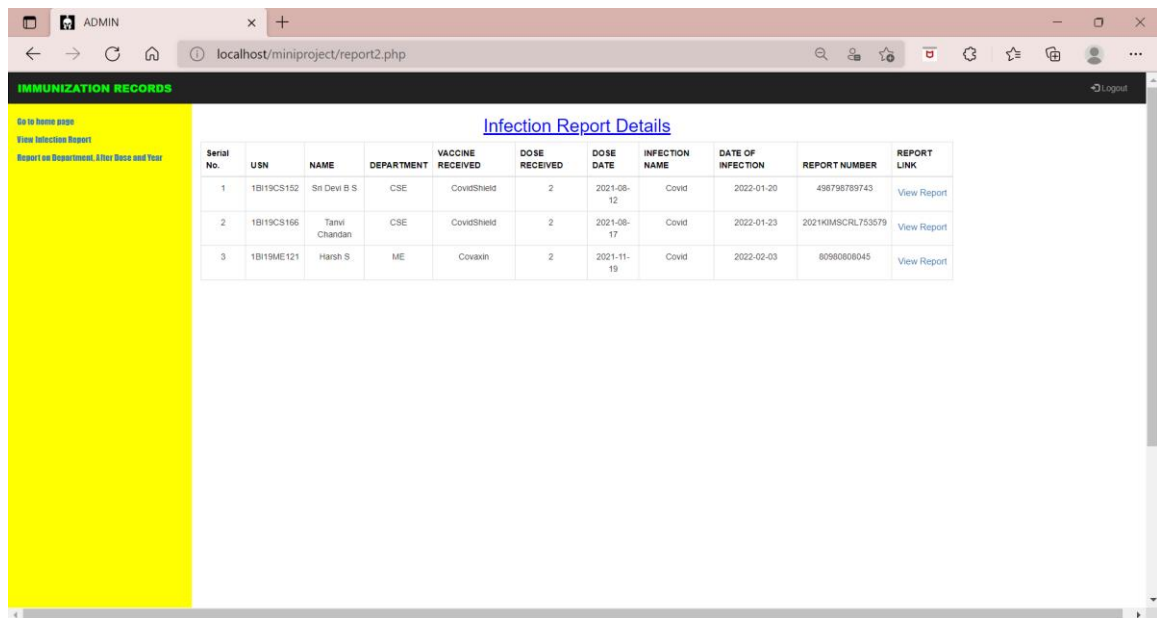
Vaccine Name: Covaxin | Department: CSE | Dose: 2

Year: 2018

[Vaccination Report Details](#)

Serial No	USN	NAME	DEPARTMENT	VACCINE NAME	DOSE	DOSE DATE	CERTIFICATE NUMBER	CERTIFICATE LINK
1	1BI18CS120	Pooja Sridhar	CSE	Covaxin	2	2021-08-13	939484878776278	View Certificate

Figure 6.11 Vaccination Report Page: With Vaccination Name, Dose, Department and Year of Admission Filter



ADMIN

localhost/miniproject/report2.php

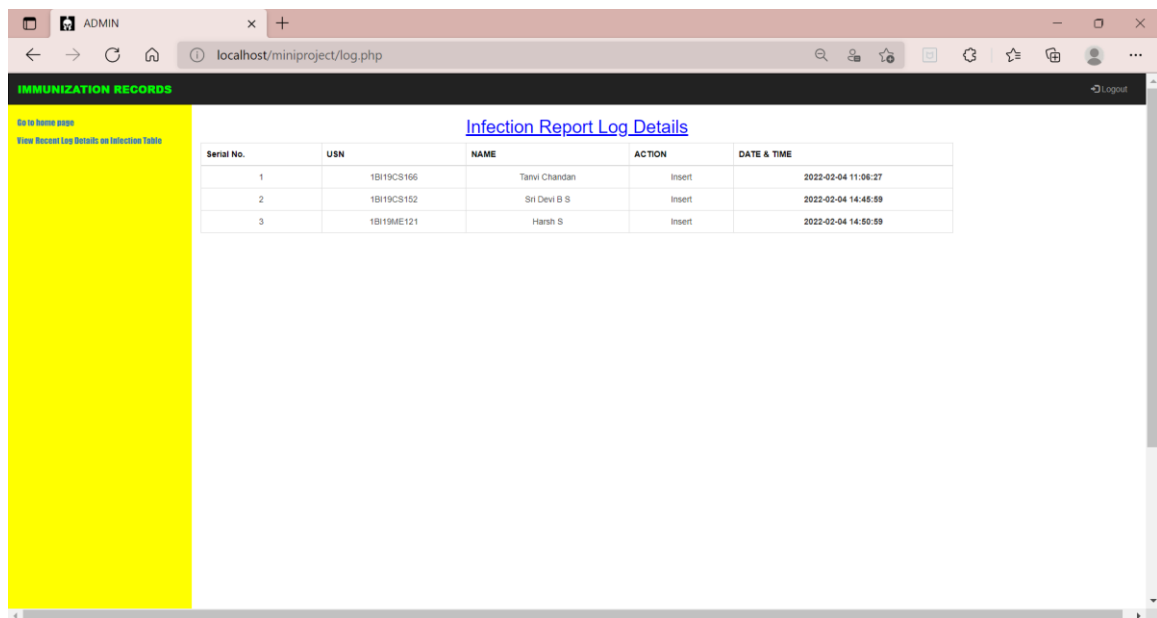
IMMUNIZATION RECORDS

Go to home page
View Infection Report
Report on Department, After Date and Year

[Infection Report Details](#)

Serial No.	USN	NAME	DEPARTMENT	VACCINE RECEIVED	DOSE RECEIVED	DOSE DATE	INFECTION NAME	DATE OF INFECTION	REPORT NUMBER	REPORT LINK
1	1BI19CS152	Sri Devi B S	CSE	CovidShield	2	2021-05-12	Covid	2022-01-20	456756789743	View Report
2	1BI19CS166	Tanvi Chandan	CSE	CovidShield	2	2021-06-17	Covid	2022-01-23	2021QIM9CRL753579	View Report
3	1BI19ME121	Harsh S	ME	Covaxin	2	2021-11-19	Covid	2022-02-03	80968080845	View Report

Figure 6.12 Infection Report Page: Without Filter



ADMIN

localhost/miniproject/log.php

IMMUNIZATION RECORDS

Go to home page
View Infection Report
Report on Department, After Date and Year

[Infection Report Log Details](#)

Serial No.	USN	NAME	ACTION	DATE & TIME
1	1BI19CS166	Tanvi Chandan	Insert	2022-02-04 11:06:27
2	1BI19CS152	Sri Devi B S	Insert	2022-02-04 14:45:59
3	1BI19ME121	Harsh S	Insert	2022-02-04 14:50:59

Figure 6.13: Infection Report Page: With Filter

The screenshot shows a web browser window with the URL `localhost/miniproject/form.php`. The page is titled "Welcome to Immunization Reports" and features a yellow sidebar with links: "Go Back Home", "Submit Vaccination Form", and "Submit Infection Form". The main content area is titled "Submit Vaccination Form" and includes a link "Upload Certificate" under the instruction "Please upload the Certificate here :". Below this is a form with the following fields:

- * USN:
- * NAME:
- * DEPARTMENT:
- * ADMISSION YEAR:
- * VACCINE NAME:
- * VACCINATION DOSE:
- * Dose Date:
- * Certificate Number:
- * Certificate Link:

A green "Submit" button is located at the bottom of the form.

Figure 6.14 Vaccination Form

The screenshot shows a web browser window with the URL `localhost/miniproject/infection.php`. The page is titled "Welcome to Immunization Reports" and features a yellow sidebar with links: "Go Back Home", "Submit Vaccination Form", and "Submit Infection Form". The main content area is titled "Submit Infection Form" and includes a link "Upload Report" under the instruction "Please upload the report here :". Below this is a form with the following fields:

- * USN:
- * NAME:
- * DEPARTMENT:
- * ADMISSION YEAR:
- * INFECTED WITH:
- * INFECTED AFTER DOSE:
- * Date of Infection:
- * Positive Report Number:
- * Positive Report Link:

A green "Submit" button is located at the bottom of the form.

Figure 6.15 Infection Form

Event: Submission of infection form

The screenshot shows a web browser window with the URL `localhost/miniproject/infection.php`. The page is titled "Welcome to Immunization Reports" and features a blue link "Submit Infection Form". Below the link, it says "Please upload the report here : Upload Report". A yellow sidebar on the left contains links: "Go Back Home", "Submit Vaccination Form", and "Submit Infection Form". The main form area includes the following fields:

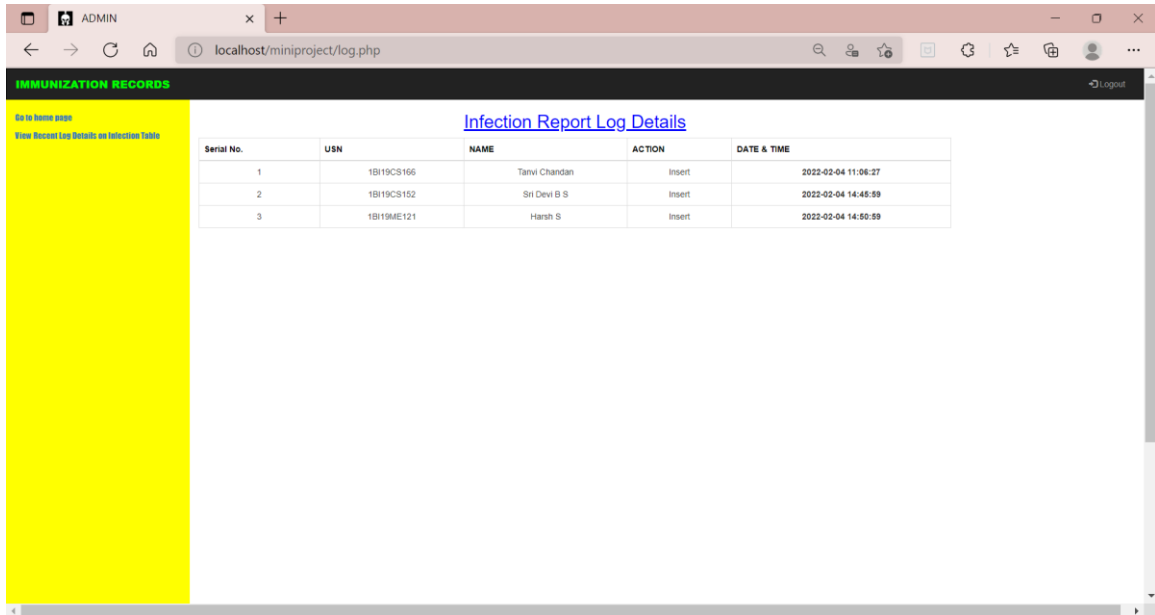
- * USN: Enter Your USN
- * NAME: Enter Your Name
- * DEPARTMENT: N/A (dropdown)
- * ADMISSION YEAR: N/A (dropdown)
- * INFECTED WITH: N/A (dropdown)
- * INFECTED AFTER DOSE: 1 (dropdown)
- * Date of Infection: dd-mm-yyyy
- * Positive Report Number: Enter Report Number
- * Positive Report Link: Enter Report Link

A green "Submit" button is located at the bottom of the form.

The screenshot shows a web browser window with the URL `localhost/miniproject/afterinfection.php`. The page is titled "Welcome to Immunization Records" and "Welcome Student". A green success message bar reads "Success! SUBMISSION SUCCESSFUL!!". Below the message are two buttons: "Submit Another Form" and "GO TO HOME". A yellow sidebar on the left contains links: "Submit Vaccination Form" and "Submit Infection Form". The footer of the page displays "@covid vaccination records".

Figure 6.16 Infection Form Trigger

6. Trigger: Insertion of logs in STULOGS table which can be viewed by the admin



The screenshot shows a web browser window with the URL `localhost/miniproject/log.php`. The page has a header bar with the text 'IMMUNIZATION RECORDS' and a 'Logout' button. On the left, there is a yellow sidebar with the text 'Go to home page' and 'View Recent Log Details on Infection Table'. The main content area displays a table titled 'Infection Report Log Details' with the following data:

Serial No.	USN	NAME	ACTION	DATE & TIME
1	1BI19CS166	Tanvi Chandan	Insert	2022-02-04 11:06:27
2	1BI19CS152	Sri Devi B S	Insert	2022-02-04 14:48:59
3	1BI19ME121	Harsh S	Insert	2022-02-04 14:50:59

Figure 6.17 Student Infection Form Log Report

Database

Filters

Containing the word:

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> admin		1	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> infection		3	InnoDB	utf8mb4_general_ci	32.0 KiB	-
<input type="checkbox"/> report		19	InnoDB	utf8mb4_general_ci	16.0 KiB	-
<input type="checkbox"/> student		8	InnoDB	utf8mb4_general_ci	32.0 KiB	-
4 tables Sum		31	InnoDB	utf8mb4_general_ci	96.0 KiB	0 B

☐ Check all

6.18

Server: 127.0.0.1 » Database: vaccinationdatabase » Table: admin

[Browse](#)
[Structure](#)
[SQL](#)
[Search](#)
[Insert](#)
[Export](#)
[Import](#)
[Privileges](#)
[Operations](#)
[Track](#)

[Table structure](#)
[Relation view](#)

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	admin_id	varchar(20)	utf8mb4_general_ci		No	None			
<input type="checkbox"/> 2	name	varchar(40)	utf8mb4_general_ci		No	None			
<input type="checkbox"/> 3	apwd	varchar(20)	utf8mb4_general_ci		No	None			

☐ Check all

[Browse](#)

[Print](#)
[Propose table structure](#)
[Track table](#)
[Move columns](#)
[Normalize](#)

Figure 6.19 Admin

Server: 127.0.0.1 » Database: vaccinationdatabase » Table: student

[Browse](#)
[Structure](#)
[SQL](#)
[Search](#)
[Insert](#)
[Export](#)
[Import](#)
[Privileges](#)
[Operations](#)
[Tracking](#)

[Table structure](#)
[Relation view](#)

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	USN	varchar(10)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 2	Name	varchar(20)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 3	Pwd	varchar(20)	utf8mb4_general_ci		No	None			Change Drop More

☐ Check all
 With selected:
 [Browse](#)
[Change](#)
[Drop](#)
[Primary](#)
[Unique](#)
[Index](#)
[Spatial](#)
[Fulltext](#)

[Print](#)
[Propose table structure](#)
[Track table](#)
[Move columns](#)
[Normalize](#)

[Add](#)

column(s)
 after Pwd
 [Go](#)

Figure 6.20 Student

Server: 127.0.0.1 » Database: vaccinationdatabase » Table: report

[Browse](#)
[Structure](#)
[SQL](#)
[Search](#)
[Insert](#)
[Export](#)
[Import](#)
[Privileges](#)
[Operations](#)
[Tracking](#)

[Table structure](#)
[Relation view](#)

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/> 1	rusn	varchar(10)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 2	rname	varchar(40)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 3	rdept	varchar(40)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 4	ryear	year(4)			Yes	NULL			Change Drop More
<input type="checkbox"/> 5	rvaccinationname	varchar(40)	utf8mb4_general_ci		Yes	NULL			Change Drop More
<input type="checkbox"/> 6	dose	varchar(40)	utf8mb4_general_ci		No	None			Change Drop More
<input type="checkbox"/> 7	dosedate	date			Yes	NULL			Change Drop More
<input type="checkbox"/> 8	rCertificateNo	varchar(40)	utf8mb4_general_ci		No	None			Change Drop More

☐ Check all
 With selected:
 [Browse](#)
[Change](#)
[Drop](#)
[Primary](#)
[Unique](#)
[Index](#)
[Spatial](#)
[Fulltext](#)

Figure 6.21 Report

Server: 127.0.0.1 » Database: vaccinationdatabase » Table: infection

Table structure

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	usn	varchar(10)	utf8mb4_general_ci		No	None			Change Drop More
2	name	varchar(40)	utf8mb4_general_ci		No	None			Change Drop More
3	dept	varchar(10)	utf8mb4_general_ci		No	None			Change Drop More
4	year	year(4)			No	None			Change Drop More
5	iname	varchar(40)	utf8mb4_general_ci		No	None			Change Drop More
6	dose	varchar(10)	utf8mb4_general_ci		No	None			Change Drop More
7	idate	date			No	None			Change Drop More
8	rno	varchar(40)	utf8mb4_general_ci		No	None			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext Add to

Print Propose table structure Track table Move columns Normalize

Figure 6.22 Infection

Server: 127.0.0.1 » Database: vaccinationdatabase » Table: studentlogs

Table structure

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			No	None		AUTO_INCREMENT	Change Drop More
2	stu_id	varchar(10)	utf8mb4_general_ci		No	None			Change Drop More
3	name	varchar(30)	utf8mb4_general_ci		No	None			Change Drop More
4	action	varchar(20)	utf8mb4_general_ci		No	None			Change Drop More
5	update	datetime			No	None			Change Drop More

Check all With selected: Browse Change Drop Primary Unique Index Spatial Fulltext Add to central columns Remove from central columns

Print Propose table structure Track table Move columns Normalize

Add 1 column(s) after update Go

Indexes

Figure 6.23 Student Logs

- The webpage can be used by institutes to track the vaccination status of the students and employees.
- The webpage can be used by institutes to track the infection/ covid positive cases among the students and employees.
- The application includes uploading the certificates for confirmation and authenticity.
- Manual verification process features can be added, through which the teacher can scan the QR code in the document and see the certificate verified by the government Cowin app and update the database by either accepting or rejecting the form filled by the student. The action of accepting will trigger an action, which will update the form detail in another table if rejected the status of the same table will be updated. The queries will be executed on another table.
- This application can be introduced to the Bengaluru Institute of Technology data portal, where we students can use our login id and submit a form containing either our vaccination details with proof or infection status with proof. These details can be made accessible to our proctors through the application instead of using other modes for communication.
- It provides an effective system to store data related to COVID-19 infection and vaccination of students and employees. This application is important for the institute to keep track of students' and employers' health.

This project aims in developing an organized system to keep the data regarding COVID-19 vaccination and infection among students and employees. If this application is deployed on a large scale, it will be helpful for institutes to keep track of the data. The stored and collected data will be useful for communication between the college and the government if required. Vaccination Drives and covid related Health programs can be easily conducted.