American International University- Bangladesh

CSC 3215: Web Technologies

CO2 and CO4 Evaluation
Finished Project Report
Spring 2021-22

Project Title: Hospital Management System
Section: E

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Hospital Management System

Project Description:

Hospital management system: A unique cloud based hospital management system for both patients and hospital stuffs (Doctors, Management). The primary target of this design is to make hospital experience better than we currently have. Hospital is a place where no one willingly wants to visit but there are times when we need to. The old system of hospitals are not very user friendly. The first big stem is waiting in the queue for long hours. There are lots of other problems that makes your hospital experience bad. Our main focus is to make peoples life easier in the hour of need. We are working to design such a system that will reduce a lot of paperwork and save peoples time.

To overcome those limitation we are trying to build a social networking like site for hospitals that will help everyone working in the hospital and their patients.

Project Folder Structure:
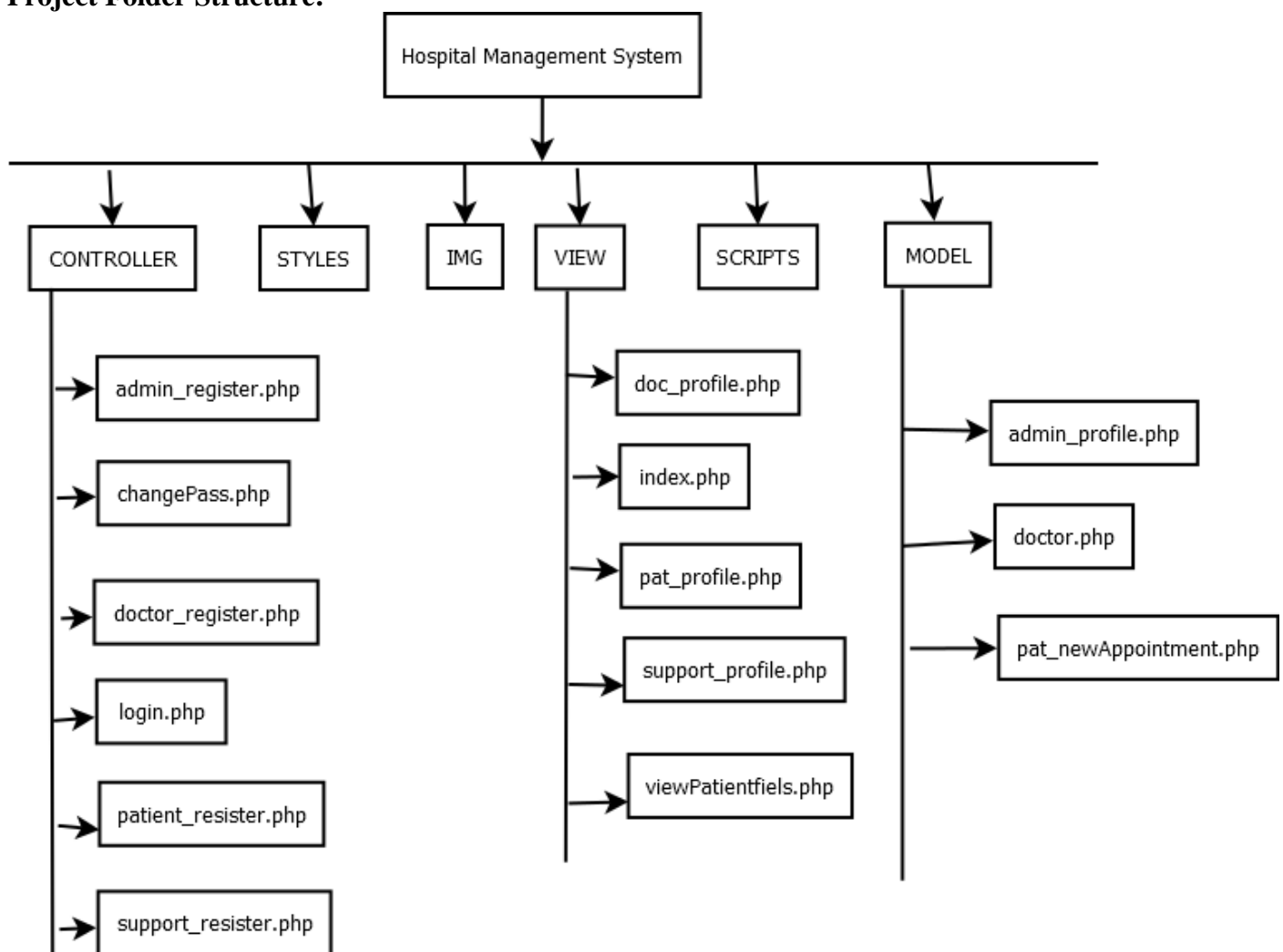
Core Modules of the Project:

Three core modules of project:

1. adminAppt.php
2. login.php
3. pat_files.php

American International University-Bangladesh (AIUB)

Hospital Management System

adminAppt.php

```php
<?php

session_start();

//--- SESSION VALIDATION---\\


if(!isset($_SESSION['utype']))
  {
  header("location:login.php");
  }

  else
  {
    if($_SESSION['utype']!="admin"){
      header("location:login.php");
    }
    else
    {

    }
}

//--- SESSION VALIDATION---\\


require "includes/db_connect.inc.php";

$sql_table = "select * from appointments ORDER BY dateTime DESC ";
$result = mysqli_query($conn, $sql_table);


if($_SERVER["REQUEST_METHOD"]=="POST")
  {

    if(isset($_POST['logOut']))
    {
      session_destroy();
      header("location:login.php");
    }
    else{
        if (isset($_POST['cancel'])) {
            $sql = "UPDATE `appointments` SET `status` = '5' WHERE `appointments`.`id` =
".$_POST['cancel'].";";
            mysqli_query($conn,$sql);
```

```php
            //header("Refresh:0");
        }
        elseif (isset($_POST['accept'])) {
            $sql = "UPDATE `appointments` SET `status` = '1' WHERE `appointments`.`id` =
".$_POST['accept'].";";
            mysqli_query($conn,$sql);
            //header("Refresh:0");
        }

    }
  }

?>


<!DOCTYPE html>
<html lang="en">
<head>
  <link rel="shortcut icon" href="" type="">
  <title>Admin Panel</title>

<meta name="viewport" content="width=device-width, initial-scale=1">

<!-- ---fonts S--- -->
<link
href="https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;500;600;700;800;900&di
splay=swap" rel="stylesheet">
<!-- ---fonts E--- -->

<link rel="stylesheet" type="text/css" href="Stylesheet/leftNav.css">
<link rel="stylesheet" type="text/css" href="Stylesheet/footer.css">
<link rel="stylesheet" type="text/css" href="Stylesheet/panel.css">
<link rel="stylesheet" type="text/css" href="Stylesheet/table.css">

</head>


<body>

  <?php include 'includes/leftNav_admin.php'; ?>

  <!-- ------------------------------------------------------------ -->

  <section id="board">

    <h1 class="header">ALL APPOINTMENTS</h1>

    <h2 class="header"> Pending Appointments</h2>
```

Hospital Management System

```php
<table class ="blueTable">
        <thead>
         <tr>
           <th>ID</th>
           <th>Appointment Information</th>
           <th>Date & Time</th>
           <th>Patient Name</th>
           <th>Doctor Name</th>
           <th>Status</th>
           <th>Action</th>


         </tr>
        </thead>
        <tbody>
         <?php
          $result = mysqli_query($conn, $sql_table);
          while($row = mysqli_fetch_assoc($result))
          {
            if($row['status']==0){
            echo "<tr>";

            echo "<td>".$row['id']."</td>";
            echo "<td>".$row['appointment_query']."</td>";

            echo "<td>".$row['dateTime']."</td>";

            $innerQuery = "Select name from patient where id
='".$row['patientId']."';";
            $innerQueryRes = mysqli_query($conn,$innerQuery );

            if($res = mysqli_fetch_assoc($innerQueryRes))
            {
              echo "<td>".$res['name']."</td>";
            }

            $innerQuery = "Select name from doctor where id
='".$row['doctorId']."';";
            $innerQueryRes = mysqli_query($conn,$innerQuery );

            if($res = mysqli_fetch_assoc($innerQueryRes))
            {
              echo "<td>".$res['name']."</td>";
            }
```

```php
                echo "<td>Pending</td>";

                echo "<td><form method=\"post\"><button type=\"submit\" name=\"cancel\"
value=\"".$row['id']."\">Cancel</button>
                    <button type=\"submit\" name=\"accept\"
value=\"".$row['id']."\">Accept</button>
                    </form>
                        </td>";


                echo "</tr>";
            }
            }

        ?>
        </tbody>
    </table>


    <h2 class="header">Doctor Requested to Cancel</h2>

    <table class ="blueTable">
        <thead>
          <tr>
            <th>ID</th>
            <th>Appointment Information</th>
            <th>Date & Time</th>
            <th>Patient Name</th>
            <th>Doctor Name</th>
            <th>Status</th>
            <th>Action</th>

          </tr>
        </thead>
        <tbody>
          <?php
            $result = mysqli_query($conn, $sql_table);
            while($row = mysqli_fetch_assoc($result))
            {
              if($row['status']==3){
              echo "<tr>";

              echo "<td>".$row['id']."</td>";
              echo "<td>".$row['appointment_query']."</td>";
```

Hospital Management System

```php
            echo "<td>".$row['dateTime']."</td>";

            $innerQuery = "Select name from patient where id
='".$row['patientId']."';";
            $innerQueryRes = mysqli_query($conn,$innerQuery );

            if($res = mysqli_fetch_assoc($innerQueryRes))
            {
              echo "<td>".$res['name']."</td>";
            }

            $innerQuery = "Select name from doctor where id
='".$row['doctorId']."';";
            $innerQueryRes = mysqli_query($conn,$innerQuery );

            if($res = mysqli_fetch_assoc($innerQueryRes))
            {
              echo "<td>".$res['name']."</td>";
            }

            echo "<td>Doctor Requested To Cancel</td>";

            echo "<td><form method=\"post\"><button type=\"submit\" name=\"cancel\"
value=\"".$row['id']."\">Agree</button>
                <button type=\"submit\" name=\"accept\"
value=\"".$row['id']."\">Deny</button>
                </form>
                    </td>";



            echo "</tr>";
          }
          }

        ?>
      </tbody>
    </table>

  <h2 class="header">Patient Requested to Cancel</h2>

  <table class ="blueTable">
      <thead>
        <tr>
          <th>ID</th>
          <th>Appointment Information</th>
```

Hospital Management System

```php
            <th>Date & Time</th>
            <th>Patient Name</th>
            <th>Doctor Name</th>
            <th>Status</th>
            <th>Action</th>

        </tr>
    </thead>
    <tbody>
      <?php
        $result = mysqli_query($conn, $sql_table);
        while($row = mysqli_fetch_assoc($result))
        {
          if($row['status']==4){
          echo "<tr>";

          echo "<td>".$row['id']."</td>";
          echo "<td>".$row['appointment_query']."</td>";

          echo "<td>".$row['dateTime']."</td>";

          $innerQuery = "Select name from patient where id
='".$row['patientId']."';";
          $innerQueryRes = mysqli_query($conn,$innerQuery );

          if($res = mysqli_fetch_assoc($innerQueryRes))
          {
            echo "<td>".$res['name']."</td>";
          }

          $innerQuery = "Select name from doctor where id
='".$row['doctorId']."';";
          $innerQueryRes = mysqli_query($conn,$innerQuery );

          if($res = mysqli_fetch_assoc($innerQueryRes))
          {
            echo "<td>".$res['name']."</td>";
          }

          echo "<td>Patient Requested To Cancel</td>";

          echo "<td><form method=\"post\"><button type=\"submit\" name=\"cancel\"
value=\"".$row['id']."\">Agree</button>
              <button type=\"submit\" name=\"accept\"
value=\"".$row['id']."\">Deny</button>
              </form>
```

Hospital Management System

```php
                    </td>";


            echo "</tr>";
        }
        }

    ?>
  </tbody>
</table>

<h2 class="header">Accepted</h2>

<table class ="blueTable">
  <thead>
    <tr>
      <th>ID</th>
      <th>Appointment Information</th>
      <th>Date & Time</th>
      <th>Patient Name</th>
      <th>Doctor Name</th>
      <th>Status</th>
      <th>Action</th>

    </tr>
  </thead>
  <tbody>
    <?php
    $result = mysqli_query($conn, $sql_table);
    while($row = mysqli_fetch_assoc($result))
    {
      if($row['status']==1){
      echo "<tr>";

      echo "<td>".$row['id']."</td>";
      echo "<td>".$row['appointment_query']."</td>";

      echo "<td>".$row['dateTime']."</td>";

      $innerQuery = "Select name from patient where id
='".$row['patientId']."';";
      $innerQueryRes = mysqli_query($conn,$innerQuery );

      if($res = mysqli_fetch_assoc($innerQueryRes))
      {
```

```php
            echo "<td>".$res['name']."</td>";
        }

        $innerQuery = "Select name from doctor where id
='".$row['doctorId']."';";
        $innerQueryRes = mysqli_query($conn,$innerQuery );

        if($res = mysqli_fetch_assoc($innerQueryRes))
        {
            echo "<td>".$res['name']."</td>";
        }

        echo "<td>Accepted Waiting for visit</td>";

        echo "<td><form method=\"post\"><button type=\"submit\" name=\"cancel\"
value=\"".$row['id']."\">Cancel</button>

        </form>
                </td>";



        echo "</tr>";
        }
        }

    ?>
    </tbody>
    </table>

    <h2 class="header">Completed</h2>

    <table class ="blueTable">
        <thead>
            <tr>
                <th>ID</th>
                <th>Appointment Information</th>
                <th>Date & Time</th>
                <th>Patient Name</th>
                <th>Doctor Name</th>
                <th>Status</th>
                <th>Action</th>

            </tr>
        </thead>
        <tbody>
```

Hospital Management System

```php
        <?php
        $result = mysqli_query($conn, $sql_table);
        while($row = mysqli_fetch_assoc($result))
        {
          if($row['status']==2){
          echo "<tr>";

          echo "<td>".$row['id']."</td>";
          echo "<td>".$row['appointment_query']."</td>";

          echo "<td>".$row['dateTime']."</td>";

          $innerQuery = "Select name from patient where id
='".$row['patientId']."';";
          $innerQueryRes = mysqli_query($conn,$innerQuery );

          if($res = mysqli_fetch_assoc($innerQueryRes))
          {
            echo "<td>".$res['name']."</td>";
          }

          $innerQuery = "Select name from doctor where id
='".$row['doctorId']."';";
          $innerQueryRes = mysqli_query($conn,$innerQuery );

          if($res = mysqli_fetch_assoc($innerQueryRes))
          {
            echo "<td>".$res['name']."</td>";
          }

          echo "<td>Appointment Done (Confirmed By Doctor)</td>";

          echo "<td>No Action Available</td>";
          echo "</tr>";
        }
        }

      ?>
    </tbody>
  </table>

  <h2 class="header">Canceled</h2>

  <table class ="blueTable">
    <thead>
      <tr>
```

```php
            <th>ID</th>
            <th>Appointment Information</th>
            <th>Date & Time</th>
            <th>Patient Name</th>
            <th>Doctor Name</th>
            <th>Status</th>
            <th>Action</th>

        </tr>
      </thead>
      <tbody>
        <?php
        $result = mysqli_query($conn, $sql_table);
        while($row = mysqli_fetch_assoc($result))
        {
          if($row['status']==5){
          echo "<tr>";

          echo "<td>".$row['id']."</td>";
          echo "<td>".$row['appointment_query']."</td>";

          echo "<td>".$row['dateTime']."</td>";

          $innerQuery = "Select name from patient where id
='".$row['patientId']."';";
          $innerQueryRes = mysqli_query($conn,$innerQuery );

          if($res = mysqli_fetch_assoc($innerQueryRes))
          {
            echo "<td>".$res['name']."</td>";
          }

          $innerQuery = "Select name from doctor where id
='".$row['doctorId']."';";
          $innerQueryRes = mysqli_query($conn,$innerQuery );

          if($res = mysqli_fetch_assoc($innerQueryRes))
          {
            echo "<td>".$res['name']."</td>";
          }

          echo "<td>Appointment Canceled</td>";

          echo "<td>No Action Available</td>";
          echo "</tr>";
        }
```

```
                }

            ?>
          </tbody>
        </table>

    <h1><br>-------------------------------------------</h1>


  </section>


</body>
</html>
```

Login.php

```php
<?php

session_start();




//FROM REG
if (isset($_SESSION["RegSuccessful"])) {
    if ($_SESSION["RegSuccessful"] == 1) {
        $_SESSION["RegSuccessful"] = 0;
        echo '<script>alert("Registration Successful")</script>';
    }
}
//

if (isset($_SESSION['utype'])) {
    if ($_SESSION['utype'] == "admin") {
        header("location:admin.php");
    }
    if ($_SESSION['utype'] == "doctor") {
        header("location:doctor.php");
    }
    if ($_SESSION['utype'] == "patient") {
        header("location:patient.php");
    }
    if ($_SESSION['utype'] == "support") {
        header("location:support.php");
    }
}
```

Hospital Management System

```php
//

require "includes/db_connect.inc.php";

//FIRST TIME OPENING ADMIN CREATION
$sql = "Select * from admin";

$result = mysqli_query($conn, $sql);

if (mysqli_num_rows($result) < 1) {
    date_default_timezone_set('Asia/Dhaka');
    $pass = password_hash("admin", PASSWORD_DEFAULT);
    $today = date('Y-m-d');

    $insert_Query = "INSERT INTO `admin`(`id`, `username`, `name`, `password`, `phone`,
`email`, `hiredate`, `address`) VALUES ( NULL , 'admin', 'admin','" . $pass .
"','00000000000','admin@admin.com','" . $today . "','admin' )";

    mysqli_query($conn, $insert_Query);
}

//-------------------------

$username = $userpass = '';

$errorFlag = 0;


if ($_SERVER["REQUEST_METHOD"] == "POST") {

    $found = 0;
    $errorFlag = 0;
    $username =  mysqli_real_escape_string($conn, $_POST['u_name']);
    $userpass =  mysqli_real_escape_string($conn, $_POST['u_pass']);

    if (empty($username) || empty($userpass)) {

        $errorFlag = 1;
    } else {

        $sql = "Select *from admin where username='" . $username . "' ;";
        $result = mysqli_query($conn, $sql);

        if ($row = mysqli_fetch_assoc($result)) {

            if (is_null($row["username"])) {
```

Hospital Management System

```php
            } else {
                if (!password_verify($userpass, $row['password'])) {
                    $errorFlag = 1;
                } else if (is_null($row['resignDate'])) {

                    $_SESSION['userid'] = $row["id"];
                    $_SESSION['username'] = $row["username"];
                    $_SESSION['utype'] = "admin";

                    header("Location:admin.php");
                } else {
                    $errorFlag = 2;
                }
            }
        }

        $sql = "Select *from doctor where username='" . $username . "';";

        $result = mysqli_query($conn, $sql);

        if ($row = mysqli_fetch_assoc($result)) {

            if (is_null($row["username"])) {
            } else {

                if (!password_verify($userpass, $row['password'])) {
                    $errorFlag = 1;
                } else if (is_null($row['resignDate'])) {

                    $_SESSION['userid'] = $row["id"];
                    $_SESSION['username'] = $row["username"];
                    $_SESSION['utype'] = "doctor";

                    header("Location:doctor.php");
                } else {
                    $errorFlag = 2;
                }
            }
        }

        $sql = "Select *from patient where username='" . $username . "';";

        $result = mysqli_query($conn, $sql);

        if ($row = mysqli_fetch_assoc($result)) {
```

```php
            if (is_null($row["username"])) {
            } else {
                if (!password_verify($userpass, $row['password'])) {
                    $errorFlag = 1;
                } else if (is_null($row['resignDate'])) {

                    $_SESSION['userid'] = $row["id"];
                    $_SESSION['username'] = $row["username"];
                    $_SESSION['utype'] = "patient";

                    header("Location:patient.php");
                } else {
                    $errorFlag = 2;
                }
            }
        }

        $sql = "Select *from support where username='" . $username . "';";

        $result = mysqli_query($conn, $sql);

        if ($row = mysqli_fetch_assoc($result)) {

            if (is_null($row["username"])) {
            } else {
                if (!password_verify($userpass, $row['password'])) {
                    $errorFlag = 1;
                } else if (is_null($row['resignDate'])) {

                    $_SESSION['userid'] = $row["id"];
                    $_SESSION['username'] = $row["username"];
                    $_SESSION['utype'] = "support";

                    header("Location:support.php");
                } else {
                    $errorFlag = 2;
                }
            }
        }
        if ($errorFlag != 2) {
            $errorFlag = 1;
        }
    }
}
?>
```

Hospital Management System

```html
<!DOCTYPE html>
<html lang="en">

<head>
    <link rel="shortcut icon" href="" type="">
    <title>Login</title>

    <meta name="viewport" content="width=device-width, initial-scale=1">

    <!-- ---fonts S--- -->
    <link
href="https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;500;600;700;800;900&display=swap" rel="stylesheet">
    <!-- ---fonts E--- -->

    <link rel="stylesheet" type="text/css" href="StyleSheet/login.css">
    <link rel="stylesheet" type="text/css" href="StyleSheet/common.css">
</head>


<body>

    <a href="index.php"><img class="logo" src="skins/logo2.png"></a>

    <section class="container">



        <h1>Login</h1>

        <form id="login_form" action="index.phps" method="POST">

            <input class="inputField" type="text" name="u_name" placeholder="Username"
required>
            <input class="inputField" type="password" name="u_pass" placeholder="Password"
required>
            <input class="submit_btn" type="Submit" name="" value="Sign In">
            <?php

            if ($errorFlag == 1) {
                echo "<script type=\"text/javascript\">alert(\"Login Credentials
Error\");</script>";
                $errorFlag = 0;
            }

            if ($errorFlag == 2) {
```

Hospital Management System

```php
            echo "<script type=\"text/javascript\">alert(\"Resigned User Can Not Login
Contact Admin\");</script>";
                $errorFlag = 0;
            }

            ?>
        </form>
    </section>

    <div class="divReg">

        <p>Don't have an account yet ?</p>
        <a href="patient_register.php"><button style="margin-top: 10px;"
class="common_btn">Register as Patient</button></a>

    </div>



    <script>
        document.getElementById("login_form").addEventListener("submit", validate)

        function validate(event) {
            event.preventDefault()
            const uname = document.getElementsByName("u_name")[0].value
            const password = document.getElementsByName("u_pass")[0].value
            if (password.length < 6)
                return alert("Password too short")
            const req = new XMLHttpRequest();
            req.open("POST", "./login.php");
            req.setRequestHeader("Content-Type", "application/x-www-form-urlencoded");
            req.send(`u_name=${uname}&u_pass=${password}`);
        }
    </script>

</body>

</html>
```

pat_files.php

```php
<?php

session_start();
```

Hospital Management System

```php
//--- SESSION VALIDATION---\\

//CREATING DESTINATION

//----

if(!isset($_SESSION['utype']))
  {
  header("location:login.php");
  }

  else
  {
    if($_SESSION['utype']!="patient"){
      header("location:login.php");
    }
    else
    {
      $imageDestination = 'Media/Patient/'.$_SESSION['userid'];

      if(!is_dir($imageDestination))
      {
        mkdir($imageDestination,0777,true);
      }


    }
}

//--- SESSION VALIDATION---\\

if($_SERVER["REQUEST_METHOD"]=="POST")
{

  if(isset($_POST['logOut']))
  {
    session_destroy();
    header("location:login.php");
  }

  if(isset($_POST['submit']))
  {
    $image = $_FILES['image'];
```

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```php
$image_name = $_FILES['image']['name'];
$imageError = $_FILES['image']['error'];
$image_tmpName = $_FILES['image']['tmp_name'];
$image_size = $_FILES['image']['size'];
$imageType = $_FILES['image']['type'];

$imageExt = explode('.', $image_name);
$imageActualExt = strtolower(end($imageExt));

$allowedType = array('jpg','jpeg','png');


if (in_array($imageActualExt, $allowedType))
{

  if($imageError===0)
  {

    if($image_size<10000000)
    {

      $imageUploadName = uniqid('',true).".".$imageActualExt;

      $imageDestination = 'Media/Patient/'.$_SESSION['userid'];

      if(!is_dir($imageDestination))
      {
        mkdir($imageDestination,0777,true);
      }

      $imageDestination = 'Media/Patient/'.$_SESSION['userid']."/".$imageUploadName;

      move_uploaded_file($image_tmpName,$imageDestination);

      header("Refresh:0");
    }
    else
    {
      $flag = 2;
    }
  }
  else
  {
    $flag=1;
  }
}
else
```

```php
      {
        $flag = 1;
      }



  }
  if(isset($_POST['delete']))
  {
    unlink($_POST['delete']);
  }


}

?>
```

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <link rel="shortcut icon" href="" type="">
  <title>Doctor Panel</title>

<meta name="viewport" content="width=device-width, initial-scale=1">

<!-- ---fonts S--- -->
<link
href="https://fonts.googleapis.com/css2?family=Poppins:wght@300;400;500;600;700;800;900&display=swap" rel="stylesheet">
<!-- ---fonts E--- -->

<link rel="stylesheet" type="text/css" href="Stylesheet/leftNav.css">
<link rel="stylesheet" type="text/css" href="Stylesheet/footer.css">
<link rel="stylesheet" type="text/css" href="Stylesheet/panel.css">
<link rel="stylesheet" type="text/css" href="Stylesheet/table.css">
<link rel="stylesheet" type="text/css" href="Stylesheet/filesUpDown.css">
<link rel="stylesheet" type="text/css" href="Stylesheet/filesView.css">



</head>


<body>

  <?php include 'includes/leftNav_patient.php'; ?>
```

Hospital Management System

```php
<!-- ------------------------------------------------------------------- -->

<section id="board">

  <h1 class="header">My Files</h1>
  <p class="errorMsg">NOTE: ONLY IMAGES(JPG,PNG) MAXIMUM FILE SIZE: 10MB. UP TO 5
FILES.</p>

  <?php



    $dirOpener = opendir("Media/Patient/".$_SESSION['userid']."/");

    $dirOpener2 = "Media/Patient/".$_SESSION['userid'];

    $fi = new FilesystemIterator($dirOpener2, FilesystemIterator::SKIP_DOTS);

    if(iterator_count($fi)==0)
    {
      echo  "<h1 class=\"header\" align=\"Center\">NO FILES UPLOADED YET</h1>" ;
    }
    else
    {
      $count = 0;
      while(($entry = readdir($dirOpener)) !== false)
      {


        if($entry !='.' && $entry !='..')
        {
          $count++;
          echo "<div class=\"cont_files\"><h1 class=\"filename\">File ".$count."</h1>";
          echo "<a target=\"_blank\"
href=\"Media/Patient/".$_SESSION['userid']."/".$entry."\"> <embed src
=\"Media/Patient/".$_SESSION['userid']."/".$entry."\" style=\"width: 300px;
height:300px;\"></a><br>";

          echo "<form method=\"POST\">"."<button class=\"cancelBtn\" type=\"Submit\"
name=\"delete\"
value=\"Media/Patient/".$_SESSION['userid']."/".$entry."\"".">Delete</button></form>
</div>" ;
        }
      }
    }
```

Hospital Management System

```php
    ?>
    <?php

    $dirOpener2 = "Media/Patient/".$_SESSION['userid'];
    $fi = new FilesystemIterator($dirOpener2, FilesystemIterator::SKIP_DOTS);


    if(iterator_count($fi)>=5)
    {

    }
    else
    {
        echo "<form method=\"POST\" enctype=\"multipart/form-data\">

            <input class =\"submit_btn\" type=\"file\" name=\"image\">

            <button class=\"submit_btn\" type=\"submit\" name=\"submit\">Upload
Image</button>


        </form>";
    }
    ?>

  </section>


</body>
</html>
```