

GLOBAL JOURNAL OF ENGINEERING SCIENCE AND RESEARCHES DEVELOPMENT DETAILS USING SCREENSHOTS OF 'TEACHER STUDENT PORTAL' AN FOSS APPLICATION UPLOADED ON <http://kumarsushil.com/>

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ABSTRACT

Free and open source softwares like PHP are very useful to develop FOSS applications. This and other such platforms are costfree and easily available on Internet. Developers can develop versatile applications using such softwares. Such a case study has been performed by self developing a web application. A teacher can supply the teaching learning material to the students by this Application. The students can study large number of subjects. And students can be in large number not necessarily of same class but they can be of defferent classes also. Using this application the teacher can upload the study material easily and students can view as well as download the study material by going to web on <http://kumarsushil.com/>.

1. INTRODUCTION

Details of Development using Screenshots

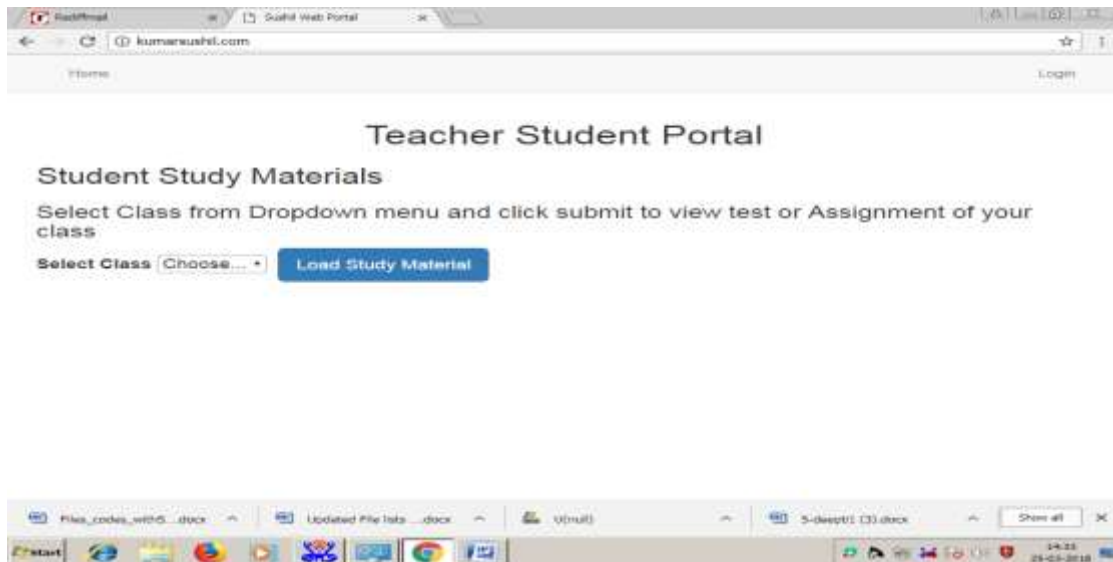
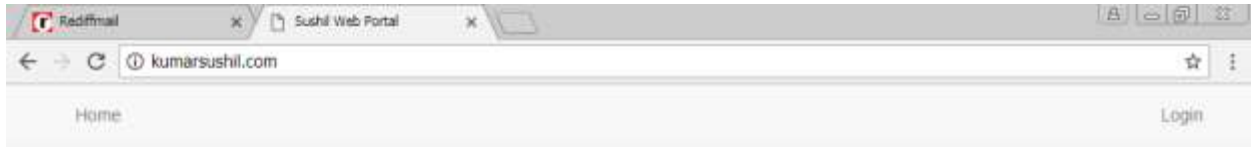


Fig 1.1



Teacher Student Portal

Student Study Materials

Select Class from Dropdown menu and click submit to view test or Assignment of your class

Select Class

- Choose...
- BCA
- BSC
- MSC
- MCA

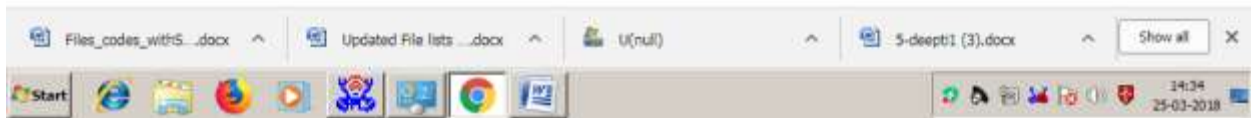


Fig 1.2

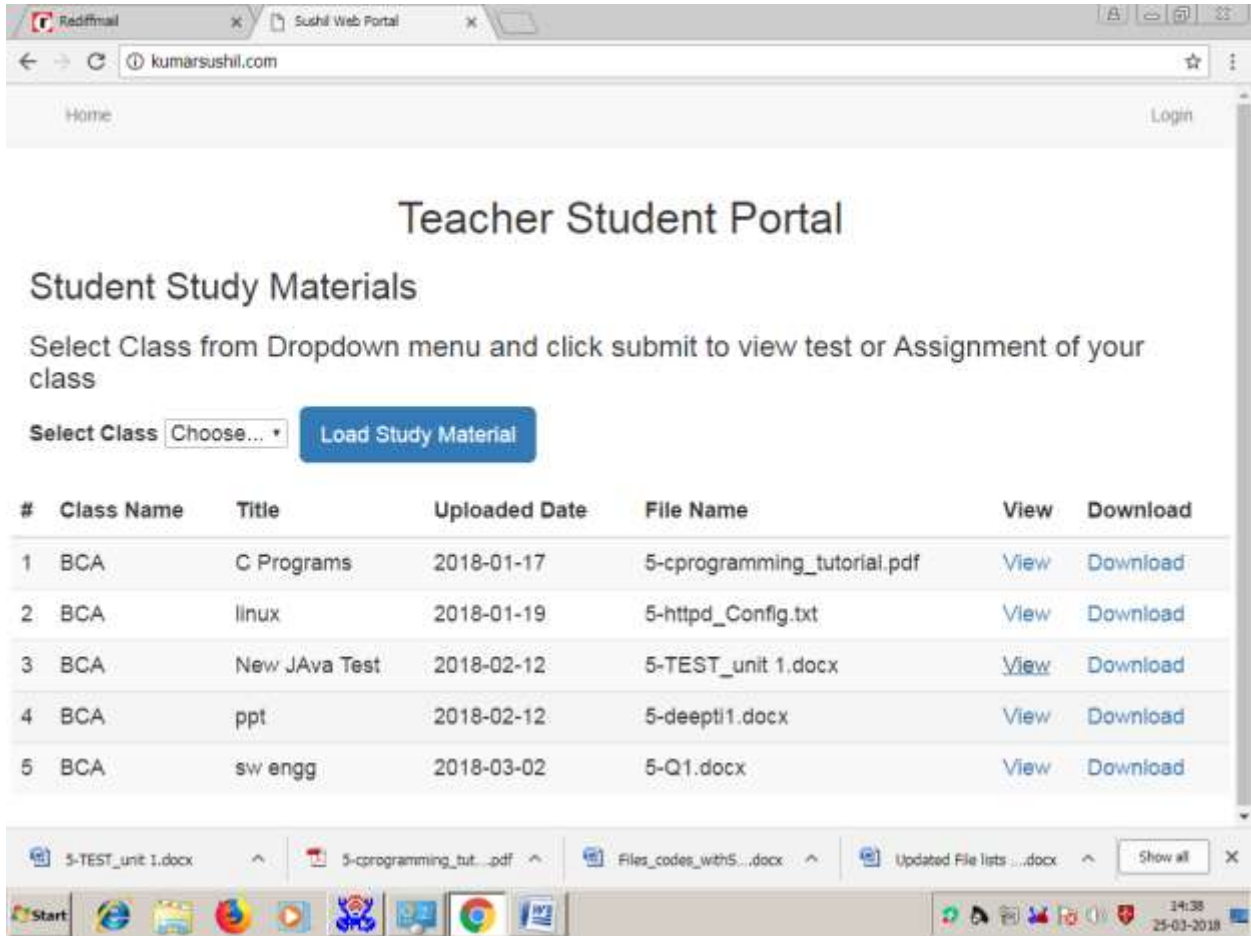


Fig 1.3

index.php=>

```

1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="utf-8">
5 <meta http-equiv="X-UA-Compatible" content="IE=edge">
6 <meta name="viewport" content="width=device-width, initial-scale=1">
7 <title>Jatinder Web Portal</title>
8 <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css
  /bootstrap.min.css">
9 <script src="https://ajax.googleapis.com/ajax/libs/jquery/1.12.4/jquery.min.js"
  ></script>
10 <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/js/bootstrap.min
  .js"></script>
11 <style type="text/css">
12     body{
13         padding-top: 70px;
14     }
15 </style>
16 </head>
17 <body>
18 <nav class="navbar navbar-default navbar-fixed-top">
19     <div class="container">
20         <!-- Brand and toggle get grouped for better mobile display -->
21         <div class="navbar-header">
22             <button type="button" data-target="#navbarCollapse" data-toggle
  ="collapse" class="navbar-toggle">
23                 <span class="sr-only">Toggle navigation</span>
24                 <span class="icon-bar"></span>
25                 <span class="icon-bar"></span>
26                 <span class="icon-bar"></span>
27             </button>
28             <!--<a href="http://www.jatinderdeveloper.com" class="navbar-brand"
  >Jatinder Web</a-->
29         </div>
30         <!-- Collection of nav links and other content for toggling -->
31         <div id="navbarCollapse" class="collapse navbar-collapse">
32             <ul class="nav navbar-nav">
33                 <li><a href="http://.">Home</a></li>
  
```

Fig 1.4

This is main index page which has following functionalities: -

- 1) Provide the lists of assignments tests for the respective classes. Student or user has to select a class from the dropdown list to find these files. These files are downloadable.
- 2) Shows a menu bar having two options (a) Login (b) Home page. In this case login option is for the teachers or lecturers who can login and upload the assignments or test for different classes.

Home.html =>

```

<html lang="en">
<head>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
<meta name="description" content="">
<meta name="author" content="">
<title>Teacher Student Portal</title>

<link href="css/bootstrap.min.css" rel="stylesheet">

<link href="css/signin.css" rel="stylesheet">
</head>

<body>

<div class="container">
<h1 align="center"> Welcome to Teacher Student Portal </h1><hr/><br/>
<form class="form-signin" method="POST" action="login_process.php" >
<h2 align="center" class="form-signin-heading">Login Screen</h2>
<label for="inputEmail" class="sr-only">Email address</label>
<input type="email" name="inputEmail" id="inputEmail" class="form-control" placeholder="Email address" required autofocus>
<br/>
<label for="inputPassword" class="sr-only">Password</label>
<input type="password" id="inputPassword" name="inputPassword" class="form-control" placeholder="Password" required>
<div class="checkbox">
<select name="user_type" id="user_type" class="form-control" required>
<option value="Teacher"> Teacher</option>
<option value="Student"> Student</option>
</select>
</div>
<input class="btn btn-lg btn-primary btn-block" type="submit" value="Login" name="go">
</form>
<hr/><br/>
</div> <!-- /container -->

<script src="js/ie10.js"></script>
</body>
</html>

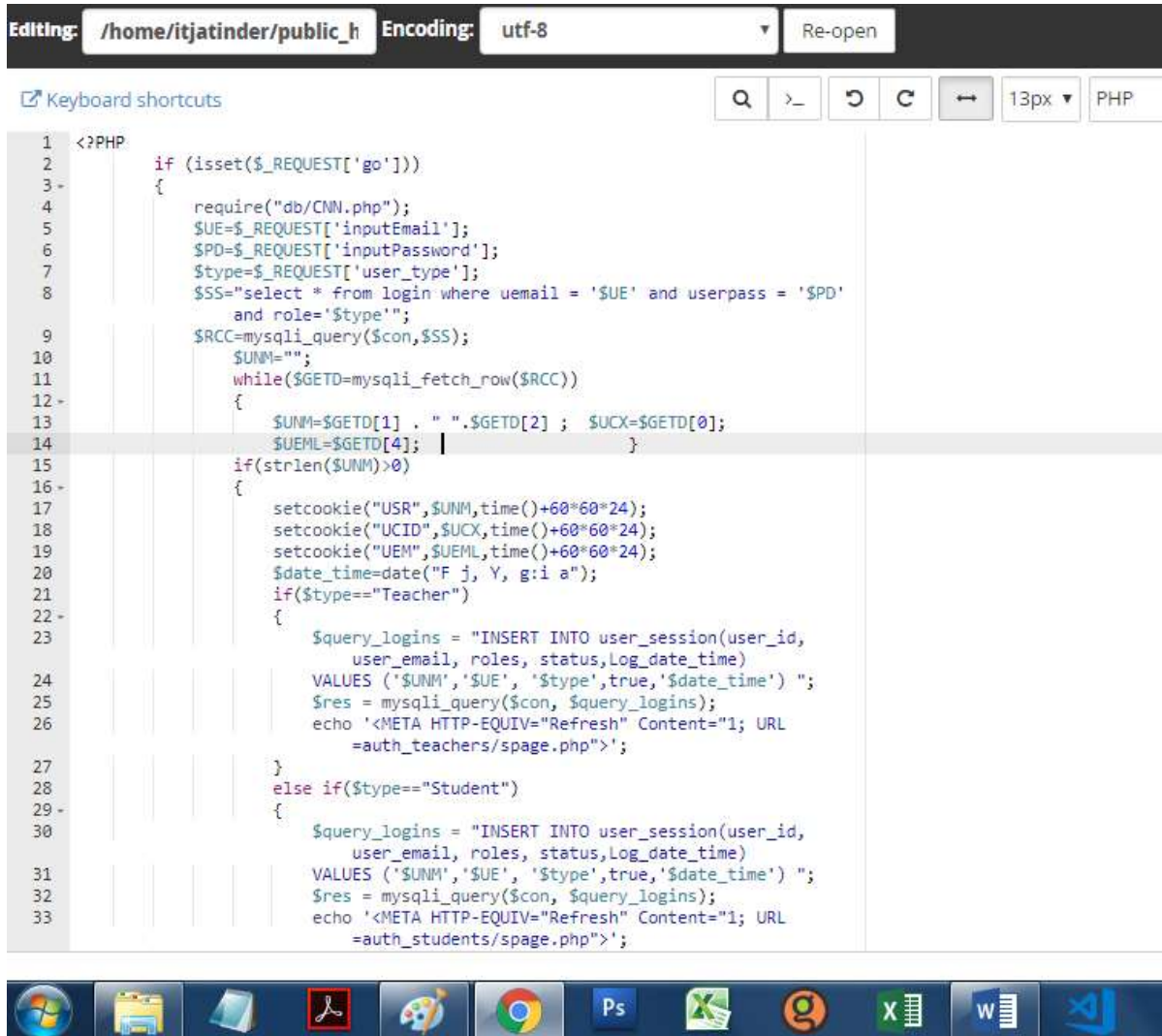
```

Fig 1.5

This page is for the login option for staff members. The working of this page is listed as under: -

- 1) Asks three main credentials for verification of user which are
 - a. User id (which is an email id for user)
 - b. Password(secret key for user)
 - c. Role (type of user Teacher or Admin)
- 2) After filling the required details, this information is sent to loginprocess.php file to check and authenticate the user for login in the portal.
- 3) In case credentials are invalid, login_process page will redirect the user to home.html this page

Login_process.php=>



```

1 <?PHP
2     if (isset($_REQUEST['go']))
3     {
4         require("db/CNN.php");
5         $UE=$_REQUEST['inputEmail'];
6         $PD=$_REQUEST['inputPassword'];
7         $type=$_REQUEST['user_type'];
8         $SS="select * from login where uemail = '$UE' and userpass = '$PD'
          and role='$type'";
9         $RCC=mysqli_query($con,$SS);
10        $SUMM="";
11        while($GETD=mysqli_fetch_row($RCC)
12        {
13            $SUMM=$GETD[1] . " " . $GETD[2] ; $UCX=$GETD[0];
14            $UEML=$GETD[4]; |
15        }
16        if(strlen($SUMM)>0)
17        {
18            setcookie("USR",$SUMM,time()+60*60*24);
19            setcookie("UCID",$UCX,time()+60*60*24);
20            setcookie("UEM",$UEML,time()+60*60*24);
21            $date_time=date("F j, Y, g:i a");
22            if($type=="Teacher")
23            {
24                $query_logins = "INSERT INTO user_session(user_id,
25                user_email, roles, status,Log_date_time)
26                VALUES ('$SUMM','$UE', '$type',true,'$date_time') ";
27                $res = mysqli_query($con, $query_logins);
28                echo '<META HTTP-EQUIV="Refresh" Content="1; URL
29                =auth_teachers/spage.php">';
30            }
31            else if($type=="Student")
32            {
33                $query_logins = "INSERT INTO user_session(user_id,
34                user_email, roles, status,Log_date_time)
35                VALUES ('$SUMM','$UE', '$type',true,'$date_time') ";
36                $res = mysqli_query($con, $query_logins);
37                echo '<META HTTP-EQUIV="Refresh" Content="1; URL
38                =auth_students/spage.php">';

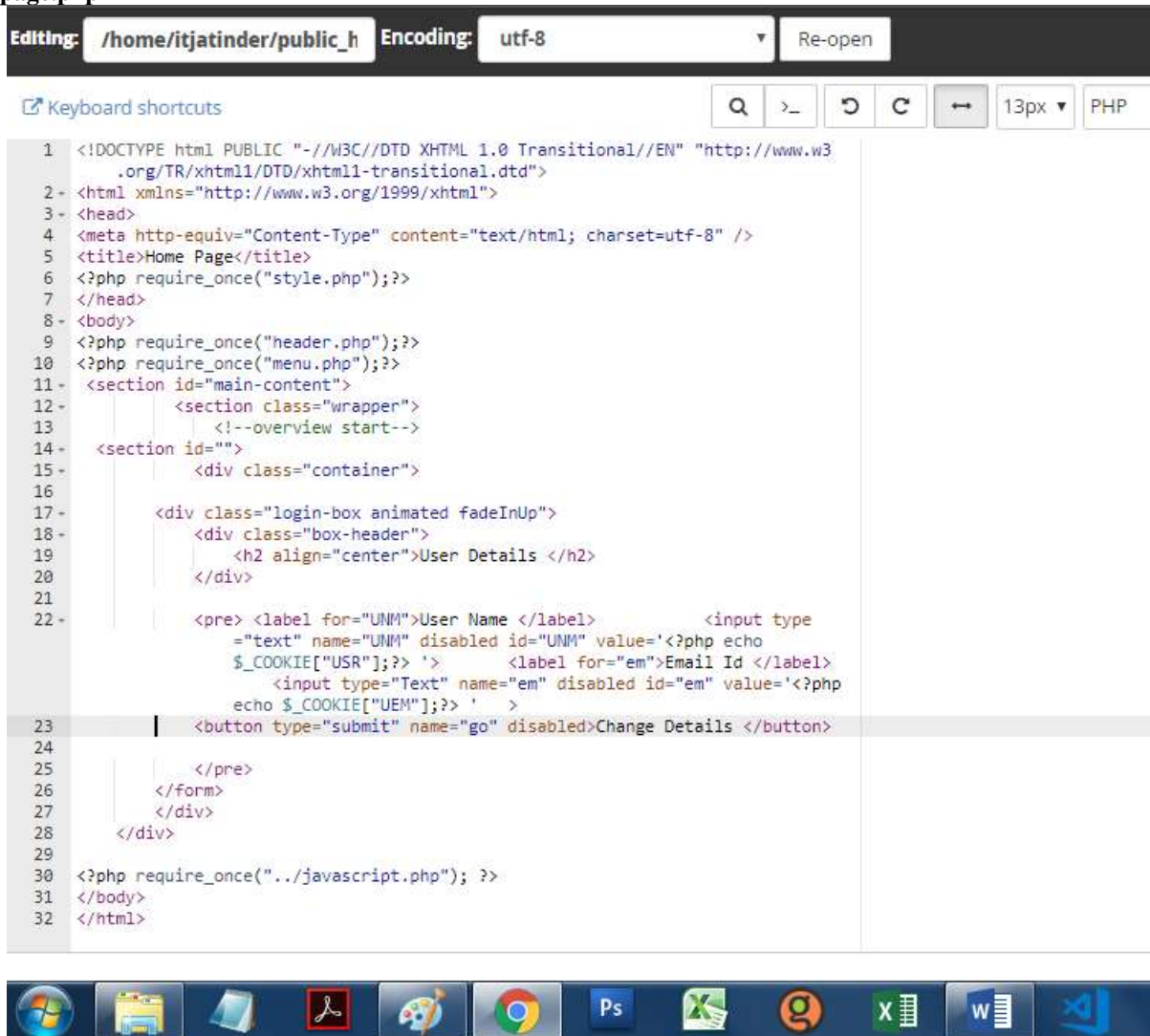
```

Fig 1.6

This file requires cn.php file for database access. This page is responsible to authenticate the user and create a session. Following are the main points which beneath or reflect the working of this page:-

- 1) Receive the user email id and password as well as role for user.
- 2) Connect with the database through cn.php file. Which provides database access for sending queries to tables and get the results.
- 3) Verify the user entry in the database table and get the details from table. Details like user full name, secret questions and secret answer. These details are further used in creating cookies values.
- 4) After successful verification , user data is temporary stored in a temp database table for login session of user.
- 5) On creating user session in table, the page session is redirected to the spage.php file.

Spage.php



```

1 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3
  .org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
2 <html xmlns="http://www.w3.org/1999/xhtml">
3 <head>
4 <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
5 <title>Home Page</title>
6 <?php require_once("style.php");?>
7 </head>
8 <body>
9 <?php require_once("header.php");?>
10 <?php require_once("menu.php");?>
11 <section id="main-content">
12 <section class="wrapper">
13 <!--overview start-->
14 <section id="">
15 <div class="container">
16
17 <div class="login-box animated fadeInUp">
18 <div class="box-header">
19 <h2 align="center">User Details </h2>
20 </div>
21
22 <pre><label for="UNM">User Name </label> <input type
  ="text" name="UNM" disabled id="UNM" value='<?php echo
  $_COOKIE["USR"];?> '> <label for="em">Email Id </label>
  <input type="Text" name="em" disabled id="em" value='<?php
  echo $_COOKIE["UEM"];?> ' >
23 <button type="submit" name="go" disabled>Change Details </button>
24
25 </pre>
26 </form>
27 </div>
28 </div>
29
30 <?php require_once("../javascript.php"); ?>
31 </body>
32 </html>

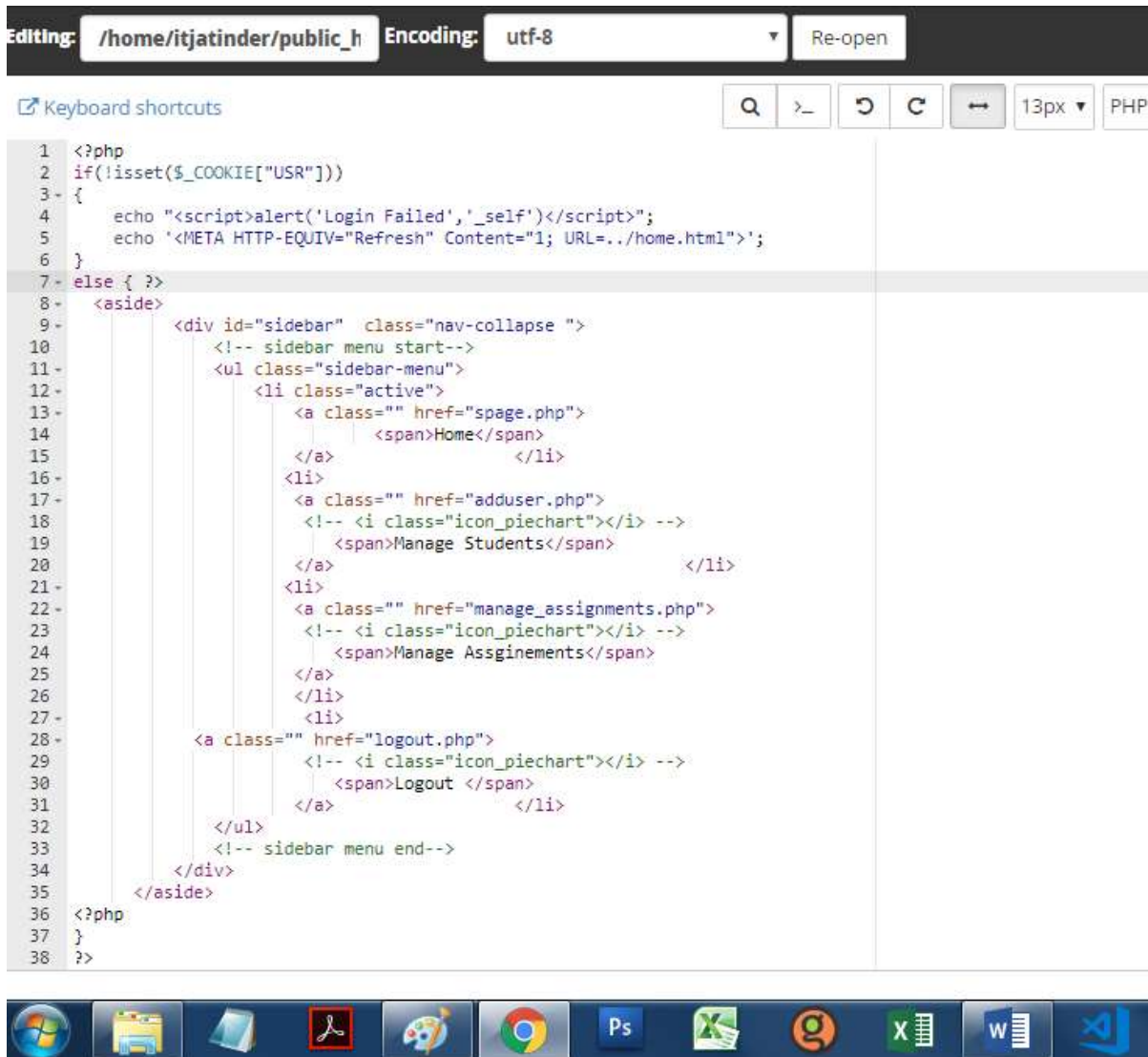
```

Fig 1.7

This page fetches or uses two other pages (a) menu.php (b) cn.php. This page has following functionalities.

- 1) Receive the data of user from cookies variables. Also shows user full name on the top bar which has been got from cookies.
- 2) Ensure that the user session has not been expired by checking the values of cookies in every links.
- 3) Shows the menu options like (a)Manage Users (b) Manage assignments (c) logout.
- 4) Redirects to other page which have been under sub menus of manage user and Manage Assignments options.

Menu.php



```

1 <?php
2 if(!isset($_COOKIE["USR"]))
3 {
4     echo "<script>alert('Login Failed','_self')</script>";
5     echo '<META HTTP-EQUIV="Refresh" Content="1; URL=./home.html">';
6 }
7 else { ?>
8     <aside>
9         <div id="sidebar" class="nav-collapse ">
10            <!-- sidebar menu start-->
11            <ul class="sidebar-menu">
12                <li class="active">
13                    <a class="" href="spage.php">
14                        <span>Home</span>
15                    </a>
16                </li>
17                <li>
18                    <a class="" href="adduser.php">
19                        <!-- <i class="icon_piechart"></i> -->
20                        <span>Manage Students</span>
21                    </a>
22                </li>
23                <li>
24                    <a class="" href="manage_assignments.php">
25                        <!-- <i class="icon_piechart"></i> -->
26                        <span>Manage Assignments</span>
27                    </a>
28                </li>
29                <li>
30                    <a class="" href="logout.php">
31                        <!-- <i class="icon_piechart"></i> -->
32                        <span>Logout </span>
33                    </a>
34                </li>
35            </ul>
36            <!-- sidebar menu end-->
37        </div>
38    </aside>
39 <?php
40 }
41 ?>

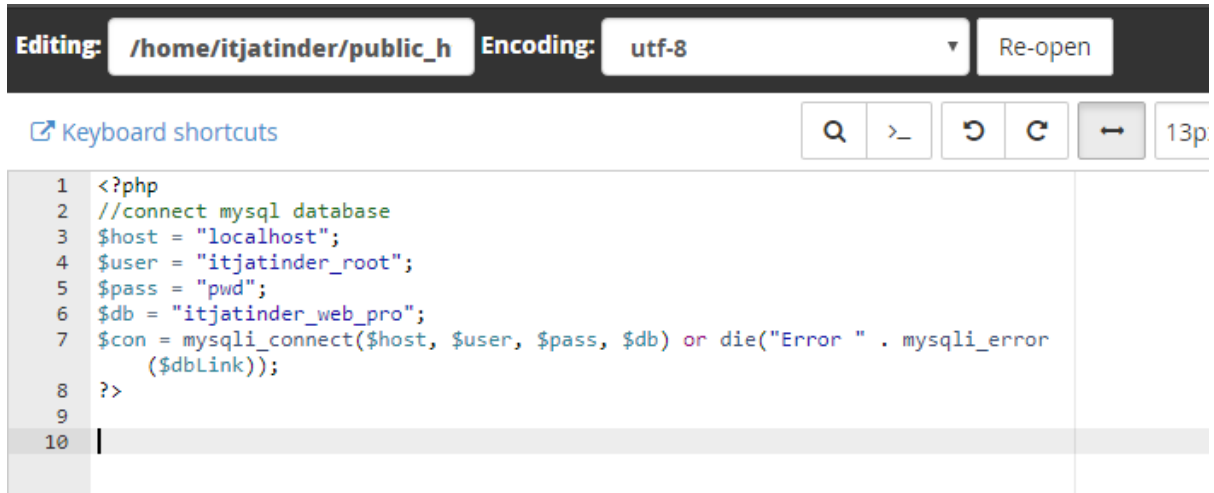
```

Fig 1.8

This file requires cn.php file for database access. This page is responsible for following functionalities: -

- 1) To check the cookies and session for user.
- 2) To provide sub menus for managing user and managing assignments as well as logout pages.
- 3) Manage user option calls manage_user.php page.
- 4) Manage assignment option calls Manage_assignments.php page.
- 5) Logout option calls Logout.php page.

Cn.php



The screenshot shows a code editor interface. At the top, there is a dark header bar with the text "Editing: /home/itjatinder/public_h" and "Encoding: utf-8" with a dropdown arrow, and a "Re-open" button. Below the header, there is a toolbar with icons for search, line numbers, undo, redo, and a "13p" indicator. The main area contains PHP code for connecting to a MySQL database. The code is as follows:

```
1 <?php
2 //connect mysql database
3 $host = "localhost";
4 $user = "itjatinder_root";
5 $pass = "pwd";
6 $db = "itjatinder_web_pro";
7 $con = mysqli_connect($host, $user, $pass, $db) or die("Error " . mysqli_error
8 ($dbLink));
9 ?>
10 |
```

Fig 1.9

This page connects to database server with database user and password. In this page database session is created which is further used in different pages for getting data from the tables.

This file is used in Login_process.php, Manage_user.php and Manage_assignments.php pages.

Manage_assignments.php

```

41- <section id="main-content">
42-   <section class="wrapper">
43-     <!--overview start-->
44-     <section id="">
45-       <section class="wrapper">
46-         <section class="panel">
47-           <section class="panel">
48-             <header class="panel-heading tab-bg-primary">
49-               <ul class="nav nav-tabs">
50-                 <li class="">
51-                   <a href="manage_assignments.php">Upload
52-                     New </a>
53-                 </li>
54-                 <li class="">
55-                   <a href="view_assignment.php">View
56-                     Classwise </a>
57-                 </li>
58-                 <li class="">
59-                   <a href="#srchusr.php">Search </a>
60-                 </li>
61-               </ul>
62-             </header>
63-           </section>
64-           <header class="panel-heading" align='center'>
65-             <h3> Upload New Assignment/Test </h3>
66-           </header>
67-           <div class="panel-body">
68-             <table border="2" align="center">
69-               <form action="upload.php" method="post" enctype="multipart/form
70-                 -data">
71-                 <tr>
72-                   <td> Title </td>
73-                   <td> <input type="text" name="title" class="form-control"
74-                     placeholder="Provide Ttitle" required autofocus > </td>
75-                 </tr>
76-                 <tr>
77-                   <td> Date </td>
78-                   <td> <input type="date" name="udate" class="form-control"
79-                     placeholder="Test Date" required autofocus value=""> </td>
80-                 </tr>
81-               </form>
82-             </table>
83-           </div>
84-         </section>
85-       </section>
86-     </section>
87-   </section>
88- </section>

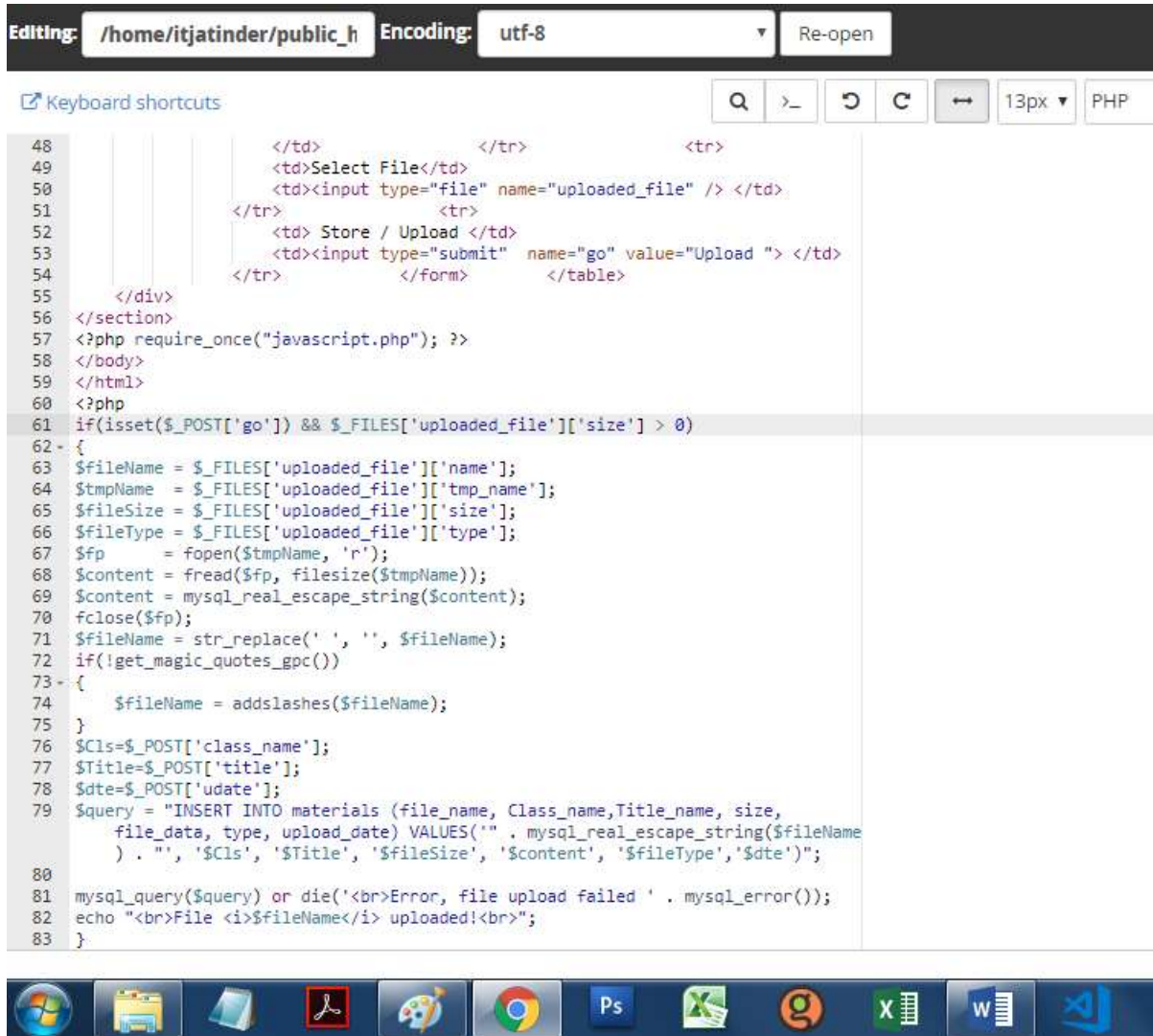
```

Fig 1.10

This file requires cn.php file for database access. It also requires Menu.php file for providing sub menus options. This file provides a sub options which is helpful in managing assignments. This page is responsible for following activities: -

View_assignments this option is linked with View_assignments.php file which is providing the lists of files or assignments stored in database table.

View_assignments.php



```

48         </td> </tr> </tr>
49         <td>Select File</td>
50         <td><input type="file" name="uploaded_file" /> </td>
51     </tr> </tr>
52     <td> Store / Upload </td>
53     <td><input type="submit" name="go" value="Upload "> </td>
54 </tr> </form> </table>
55 </div>
56 </section>
57 <?php require_once("javascript.php"); ?>
58 </body>
59 </html>
60 <?php
61 if(isset($_POST['go']) && $_FILES['uploaded_file']['size'] > 0)
62 {
63     $fileName = $_FILES['uploaded_file']['name'];
64     $tmpName = $_FILES['uploaded_file']['tmp_name'];
65     $fileSize = $_FILES['uploaded_file']['size'];
66     $fileType = $_FILES['uploaded_file']['type'];
67     $fp = fopen($tmpName, 'r');
68     $content = fread($fp, filesize($tmpName));
69     $content = mysql_real_escape_string($content);
70     fclose($fp);
71     $fileName = str_replace(' ', '', $fileName);
72     if(!get_magic_quotes_gpc())
73     {
74         $fileName = addslashes($fileName);
75     }
76     $Cls=$_POST['class_name'];
77     $Title=$_POST['title'];
78     $dte=$_POST['update'];
79     $query = "INSERT INTO materials (file_name, Class_name,Title_name, size,
80         file_data, type, upload_date) VALUES(' . mysql_real_escape_string($fileName)
81         . ', ' . $Cls, '$Title', '$fileSize', '$content', '$fileType','$dte')";
82     mysql_query($query) or die('<br>Error, file upload failed ' . mysql_error());
83     echo "<br>File <i>$fileName</i> uploaded!<br>";
84 }

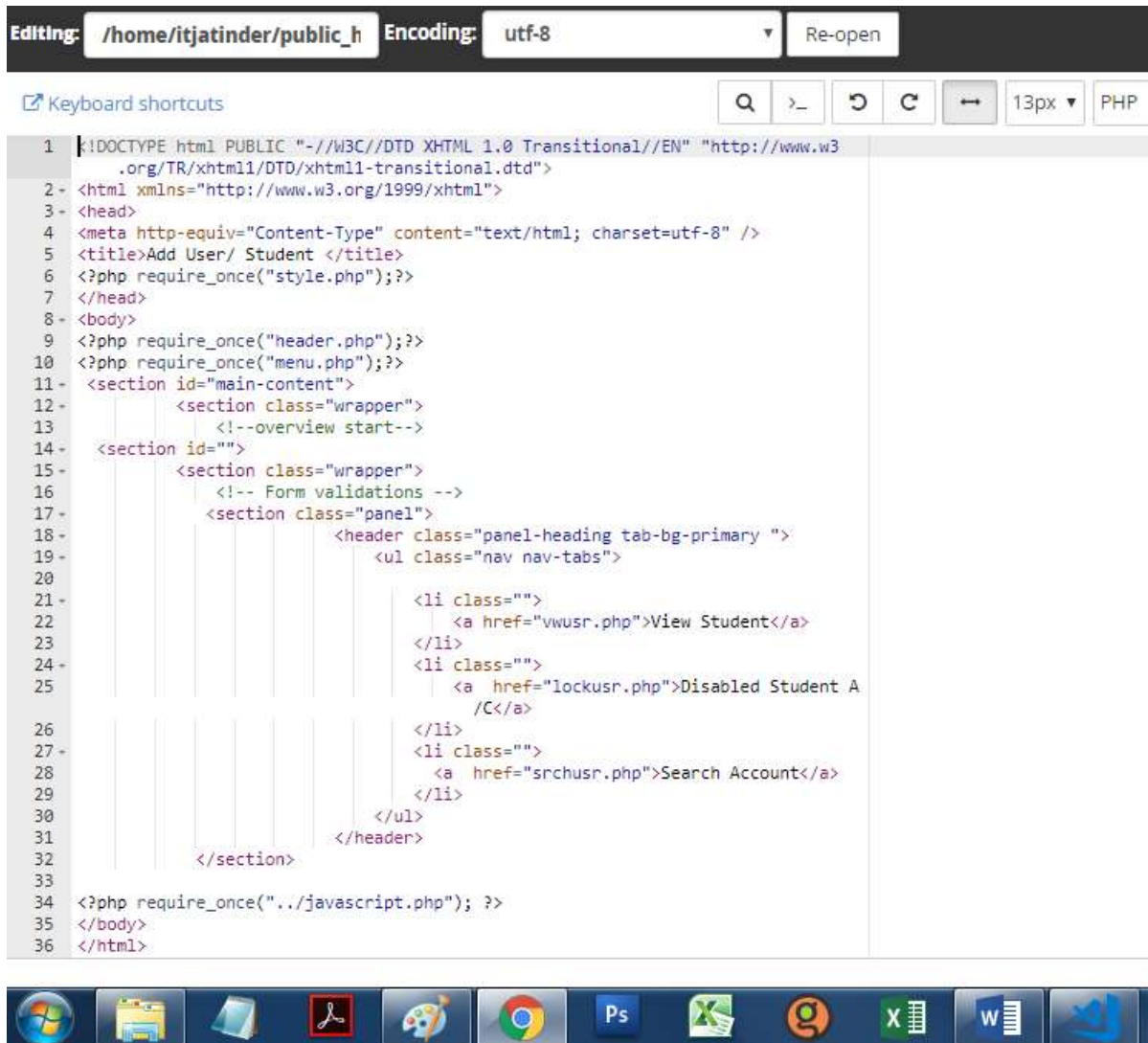
```

Fig 1.11

This file requires cn.php file for database access. It also requires Menu.php file for providing sub menus options.

This page is responsible for following activities: -

- 1) Lists all the assignments class wise which are loaded in database.
- 2) Here user can download the uploaded materials.
- 3) Also helps or provides an option to add new assignment for a class.
- 4) Here a file is being uploaded to database server and an entry is made in the database table.

Aduser.php


```

1 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3
2 .org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
3 <html xmlns="http://www.w3.org/1999/xhtml">
4 <head>
5 <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
6 <title>Add User/ Student </title>
7 <?php require_once("style.php");?>
8 </head>
9 <body>
10 <?php require_once("header.php");?>
11 <?php require_once("menu.php");?>
12 <section id="main-content">
13 <section class="wrapper">
14 <!--overview start-->
15 <section id="">
16 <section class="wrapper">
17 <!-- Form validations -->
18 <section class="panel">
19 <header class="panel-heading tab-bg-primary ">
20 <ul class="nav nav-tabs">
21 <li class="">
22 <a href="vwusr.php">View Student</a>
23 </li>
24 <li class="">
25 <a href="lockusr.php">Disabled Student A
26 /C</a>
27 </li>
28 <li class="">
29 <a href="srchusr.php">Search Account</a>
30 </li>
31 </ul>
32 </header>
33 </section>
34 <?php require_once("../javascript.php"); ?>
35 </body>
36 </html>

```

Fig 1.12

This file requires cn.php file for database access. It also requires Menu.php file for providing sub menus options.

This page is responsible for following activities: -

- 1) Provides a form for creating new login account for students and teachers.
- 2) Helps to lock or unlock user account.
- 3) View or lists all locked users details.
- 4) When a new user has been created, users' details are stored in database table and provides a message of success or failure in case of error in user addition.

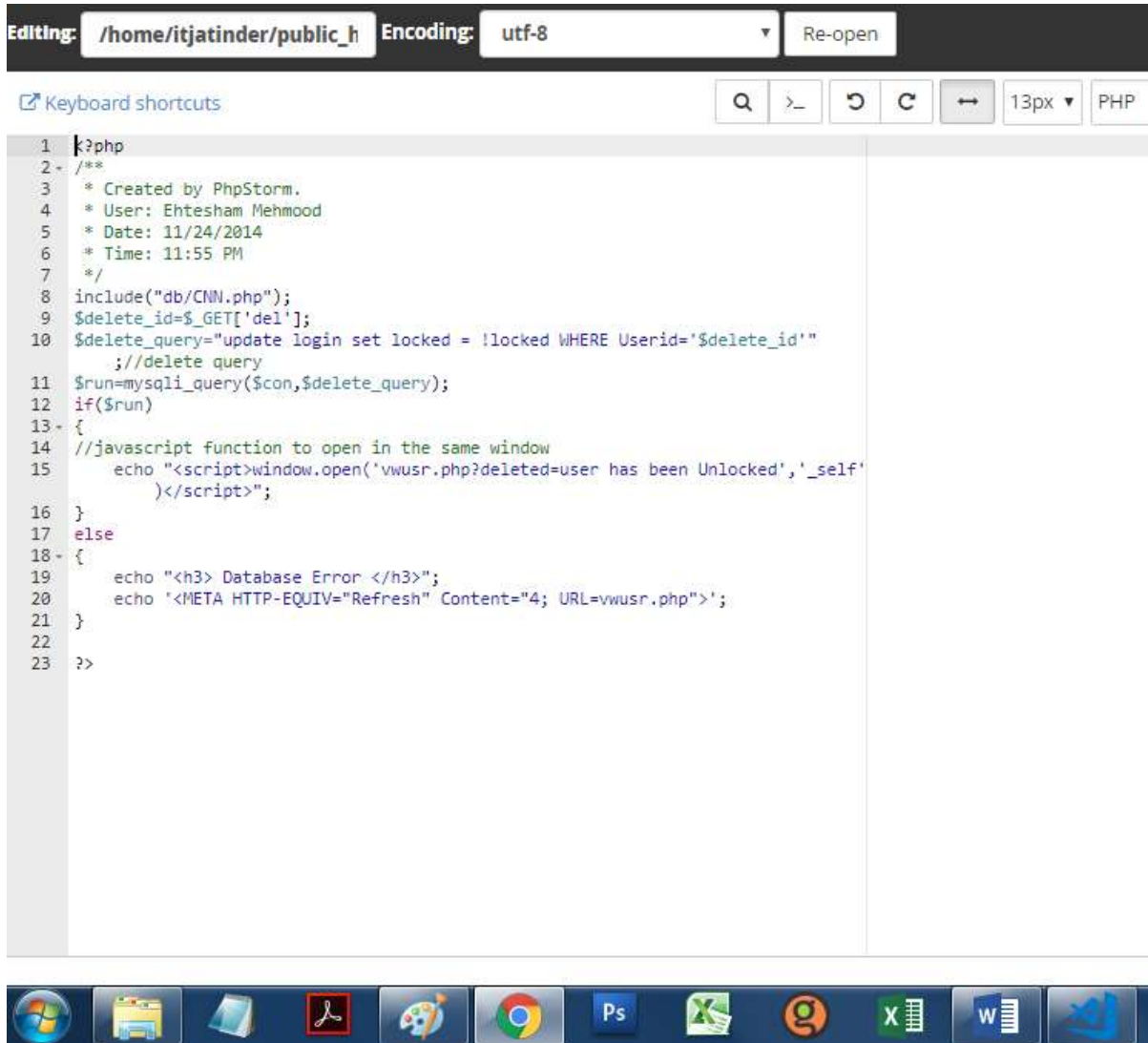
Vwusr.php

This file requires cn.php file for database access. It also requires Menu.php file for providing sub menus options.

This page is responsible for following activities: -

- Lists all users stored in database table, the list in the tabular form.

Lockusr.php



```

1 k?php
2 /**
3  * Created by PhpStorm.
4  * User: Ehtesham Mehmood
5  * Date: 11/24/2014
6  * Time: 11:55 PM
7  */
8  include("db/CNN.php");
9  $delete_id=$_GET['del'];
10 $delete_query="update login set locked = !locked WHERE Userid='$delete_id'";
11 //delete query
12 $run=mysqli_query($con,$delete_query);
13 if($run)
14 {
15 //javascript function to open in the same window
16 echo "<script>window.open('vwusr.php?deleted=user has been Unlocked','_self')
17 </script>";
18 }
19 else
20 {
21 echo "<h3> Database Error </h3>";
22 echo '<META HTTP-EQUIV="Refresh" Content="4; URL=vwusr.php">';
23 }
24 ?>

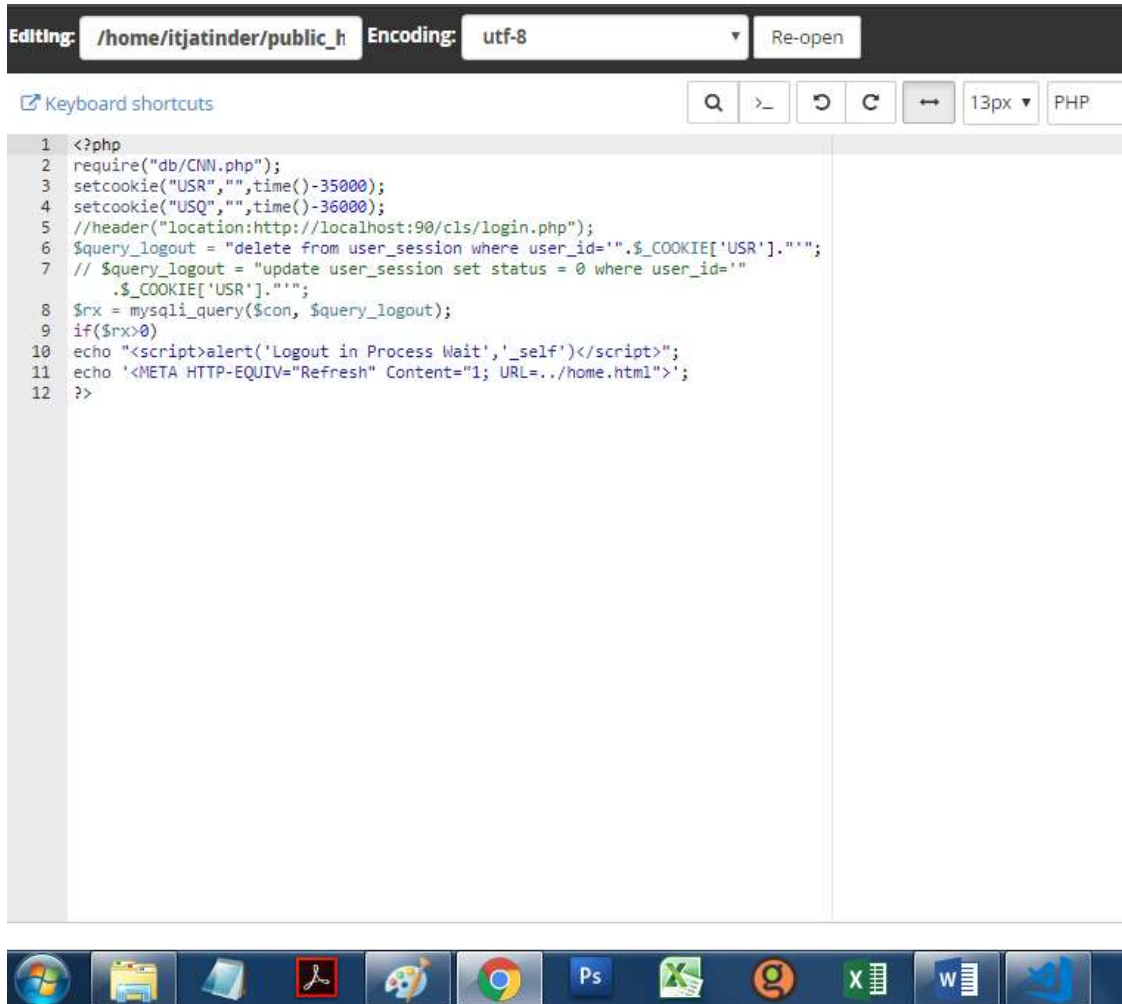
```

Fig 1.13

This file requires cn.php file for database access. It also requires Menu.php file for providing sub menus options.

This page is responsible for following activities: -

- Lists those accounts who's login access has been locked by admin user.

Logout.php


```

1 <?php
2 require("db/CNN.php");
3 setcookie("USR","",time()-35000);
4 setcookie("USQ","",time()-36000);
5 //header("location:http://localhost:90/cls/login.php");
6 $query_logout = "delete from user_session where user_id='".$_COOKIE['USR']."'";
7 // $query_logout = "update user_session set status = 0 where user_id='".$_COOKIE['USR']."'";
8 $rx = mysqli_query($con, $query_logout);
9 if($rx>0)
10 echo "<script>alert('Logout in Process Wait','_self')</script>";
11 echo "<META HTTP-EQUIV='Refresh' Content='1; URL=../home.html'>";
12 ?>

```

Fig 1.14

This file requires cn.php file for database access. It also requires Menu.php file for providing sub menus options.

This page is responsible for following activities: -

- To delete the cookies created in login process.
- Also to delete session created during login process.
- After This user is redirected to home page again.

2. CONCLUSION

Free and open source softwares are very much easy and cost free to use for user friendly interface web applications. These are of versatile nature. Teaching Learning Applications can also be developed using FOSS

REFERENCES

No references has been used