**SOFTWARE REQUIRED**

The minimum software requirements for the new system are;

1. Windows 7,8 or 10 operating system
2. Html/Css
3. MYSQL
4. PHP

**HARDWARE REQUIRED**

The following are the minimum hardware requirement for successful development of the system:

1. Pentium IV processors and above
2. 1GB RAM and above
3. 80 GB Hard Disk

**SOURCE OF DATA**

Data source is a name given to the connection set up to a [Database](https://en.wikipedia.org/wiki/Database) from a server. The name is commonly used when creating a query to the database.

**DESIGNING THE FILE**

Files held in this project are made up of different data types. These types are integer, Character, Double, Date, etc. Some of the files used are developed and linked with database.

Table 1, table 2 and Table 3 depict the data base specification for the files used.

**1 Database structure for File “Student Registration”**

|  |  |  |
| --- | --- | --- |
| **Field Name** | **Data Type** | **Size** |
| ID | Voucher | 40 |
| First Name | Voucher | 40 |
| Last Name | Voucher | 40 |
| Email | Voucher | 40 |
| Matric Number | Voucher | 40 |
| Password | Voucher | 40 |

**2 Database Structure for file “ Student Login”**

|  |  |  |
| --- | --- | --- |
| **Field Name** | **Data Type** | **Size** |
| Matric Number | Voucher | 200 |
| Password | Voucher | 200 |

**3 Database Structure for file “ Placement Info ”**

|  |  |  |
| --- | --- | --- |
| **Field Name** | **Data Type** | **Size** |
| ID | Voucher | 45 |
| Full Name | Voucher | 45 |
| Matric Number | Voucher | 45 |
| Gender | Voucher | 45 |
| Department | Voucher | 45 |
| Faculty | Voucher | 45 |
| Address | Voucher | 45 |
| Supervisor | Voucher | 45 |
| Phone Number | Voucher | 45 |
| Email Address | Voucher | 45 |
| Level | Voucher | 45 |

**PROCEDURE OF IMPLEMENTATION**

The tools for developing are the necessary requirement tools used during the design to enable us achieve the system design. The E-SIWESS Portal was designed with **HTML/CSS, PHP and MYSQL**.

1. **HTML/CSS:** Hypertext Markup Language (HTML), the standard text-formatting language for documents on the interconnected computing network known as the World Wide Web.

HTML documents are text files that contain two parts: content that is meant to be rendered on a computer screen; and *markup* or *tags,* encoded information that directs the text format on the screen and is generally hidden from the user. Some tags in an HTML document determine the way certain text, such as titles, will be formatted. Other tags cue the computer to respond to the user's actions on the keyboard or mouse. For instance, the user might click on an *icon* (a picture that represents a specific command), and that action might call another piece of software to display a graphic, play a recording, or run a short movie. Another important tag is a *link,* which may contain the Uniform Resource Locator (URL) of another document. HTML also includes markups for *forms,* that let the user fill out information and electronically send, or e-mail, the data to the document author, initiate sophisticated searches of information on the Internet, or order goods and services.

1. **PHP:** PHP is a server-side scripting language that allows your Web site to be truly dynamic. PHP stands for *PHP: Hypertext Preprocessor* Its flexibility and relatively small learning curve (especially for programmers who have a background in C, Java, or Perl) make it one of the most popular scripting languages around. PHP’s popularity continues to increase as businesses, and individuals everywhere embrace it as an alternative to Microsoft’s ASP language and realize that PHP’s benefits most certainly outweigh the costs.
2. **MySQL Database Server:** MySQL is a popular choice of database for use in web applications and is a central component of the widely used LAMP open source web application software stack LAMP is an acronym for "Linux, Apache, MySQL, Perl/PHP/Python". The MySQL Database powers the most demanding Web, E-commerce and Online Transaction Processing (OLTP) applications. It is a fully integrated transaction-safe, ACID compliant database with full commit, rollback, crash recovery and row level locking capabilities. MySQL delivers the ease of use, scalability, and performance that has made MySQL the world's most popular open source database.

**AUTHENTICATION AND AUTHORIZATION**

The software is incorporated making most of the pages secured or protected which demands only approved users gaining access to such pages. The secured pages comprises of the staff pages, the user pages and the administrator page. The software utilized the PHP membership to validate and store user credentials which help manage user authentication. Authentication is the process of inputting a user name and password to gain access to a specified secured page. The software also utilizes the PHP role management to manage authorization allowing the ability to specify the resources users are allowed to access. It enables the treatment of group of users as a unit by assigning users to specific roles and creating access rules for them. When a user requests for a protected resource, take for instance, the staff page, the website will redirect the user to logon page where he has to enter the required credentials, usually a name and password. The membership―validate user method in the code-behind file checks the name entered and compares it will all the names in the membership store, when it finds a match, it compares the password entered with the password of the match found in the store. If they are both the same, it attaches an authentication ticket to the response that represents the use credentials (the password not included) and if not, returns the user to the logon page with an access denied message. If the user is authenticated, the―Isuser\_In\_Role method further checks if that name entered has authority to access the resource requested. It does this by checking the access rule if the user’s role can access the resource requested for. If it comes out with boolean ―true, then the user is given access and the page or resource requested for opens and if it comes out with boolean ―false, the user is returned to the logon page with an access denied message. This procedure helps to ensure that a user does not log in as an administrator and vice-versa thereby viewing resources that are not meant to. It is also important to note that the authentication ticket issued to an authenticated user remains active until the user logs out or the session expires.

**ALGORITHM/PSEUDO CODES**

The Algorithm utilized in this study is made up of flowchart diagrams. It shows the various stages involved in the operation of the system. The organization of the program flowchart describes the directional path in which the E-SIWES Portal is implemented and executed.

**USE CASE DIAGRAM**

The use case model of the UML is used to specify the functionality of the system from the user’s point of view and show the way the system and the users interact to achieve its stated functions and perform its goal. Fig 2 shows the use case diagram for the SIWES portal.

**Figure 1 Depicts the Use case Diagram of the E-SIWESS Portal**



**Fig 1: Use Case Diagram**

**Source:** Adetiba et al. (2012). Development of e-SIWES Portal

**SEQUENCE DIAGRAM**

Sequence diagrams show the relationships between the objects participating in a given use case and they help to identify interaction between objects. Figure 2 describes the sequence diagram of the student (a use case actor), the portal system and the database.

In Figure 2, for the student to log into the portal, the database checks for user authentication and grants the user access into the system. He can then register for SIWES, fill his logbook, view the logbook or send and receive messages.

**Figure 2 Depict the Sequence Diagram of the E-SIWES Portal**



**Figure 4.2: Sequence Diagram**

**Source:** Adetiba et al. (2012). Development of e-SIWES Portal

**ACTIVITY DIAGRAM**

Activity diagram is another important diagram in UML to describe dynamic aspects of the system. Activity diagram is basically a flow chart to represent the flow from one activity to another. The activity can be described as an operation of the system; therefore, the control flow is drawn from one operation to another. This flow can be sequential, branched or concurrent. **Figure 4** shows the activity diagram of a student navigating through the SIWES portal.

**Figure 3 Depicts the activity diagram of the E-SIWES Portal**



**Figure 3: Activity Diagram**

**Source:** Adetiba et al. (2012). Development of e-SIWES Portal

**DATA FLOW DIAGRAM**

A Data Flow Diagram (DFD) is a graphical representation of the flow of “E-SIWES Portal”. A data Flow diagram can also be used for the visualization of Data Processing. DFD shows the interaction between the system and outside entities. This context-level DFD is then “exploded” to show more detail of the system being modelled. A DFD represents flow of data through a system. Data flow diagrams are commonly used during problem analysis. It views a system as function that transforms the given input into required output.

**CLASS DIAGRAM**

Class diagrams are the most popular UML diagrams used by the object-oriented community. It describes the objects in a system and their relationships. Class diagram consists of attributes and functions. A single class diagram describes a specific aspect of the system and the collection of class diagrams represents the whole system. Basically, the class diagram represents the static view of a system. The class diagram for the SIWES portal is shown in Fig 4



**Fig 4** Class Diagram

**Source:** Adetiba et al. (2012). Development of e-SIWES Portal

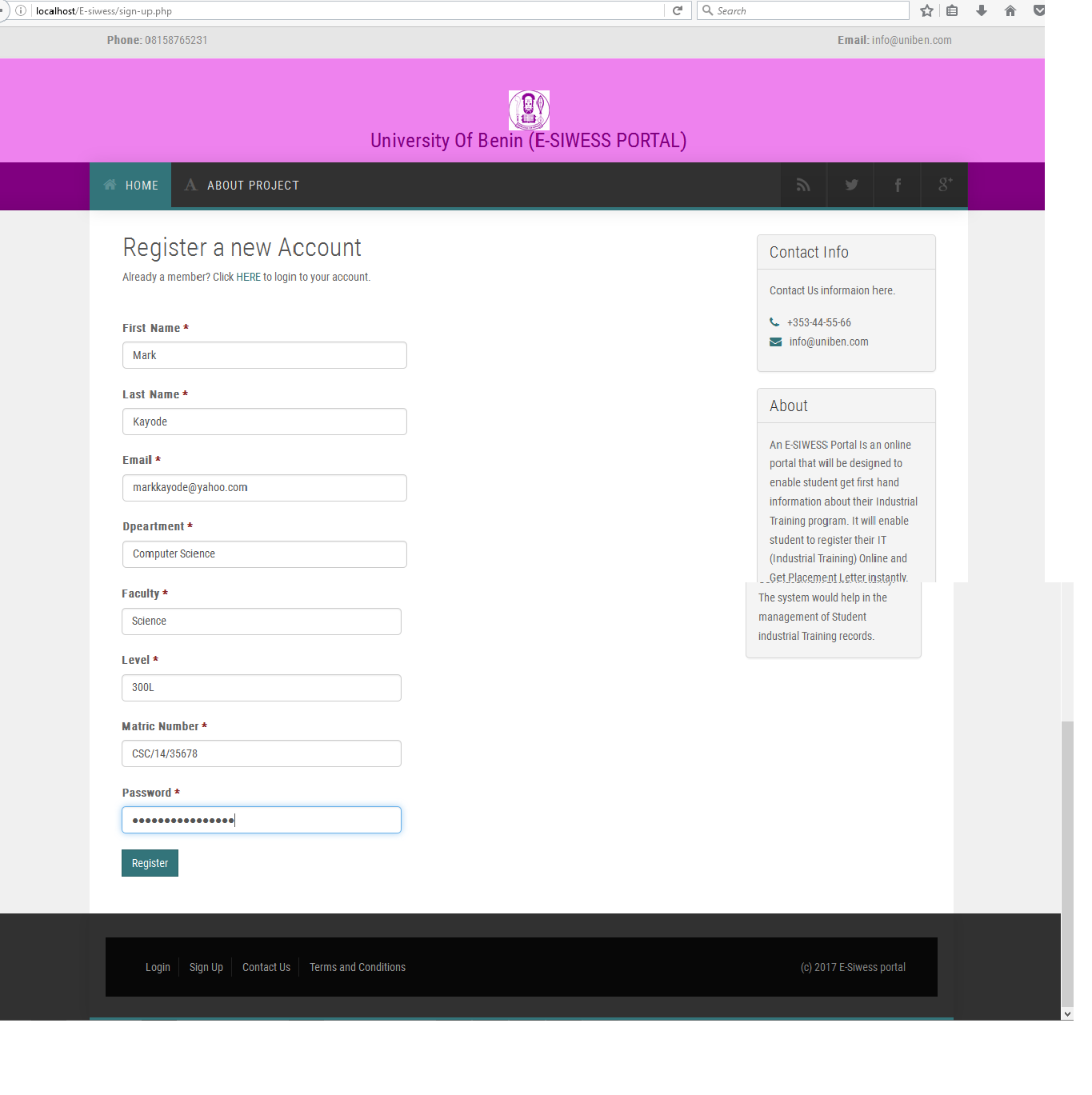
**System Implementation**

Implementation is the realization of an application or execution of a plan, idea, model, design, specification, standard, algorithm or policy. It is also the realization of a technical specification or algorithm as a program, software component or other computer system through programming and deployment. The purpose of system implementation is to make the new system available to a prepared set of staff of the University, and also positioning an on-going support and maintenance of the system within the University. This entails that all steps would be taken to educate both the students, staffs etc. on the use of the new system and confirming that all data required at the start of operations is available and accurate, and validating that the business functions that interact with the new system are functioning properly

**SAMPLE IMPLEMENTATION INPUT SNAPSHOT STUDENT REGISTRATION PAGE**

User registration system and login systems enables a system to personalize itself. Registration necessarily provides more personal information to a system than it would have otherwise have. The student registration page enables student due for IT to register on the E-SIWES portal. Before a student would be able to login to the E-SIWES Portal, he/she must first register on the website. To register, a student has to inputs his first name, last name, email address, Department, faculty, level matric number and password. Upon successful registration, an account will be created for the user.

**Fig 5 Depicts the Student registration page**

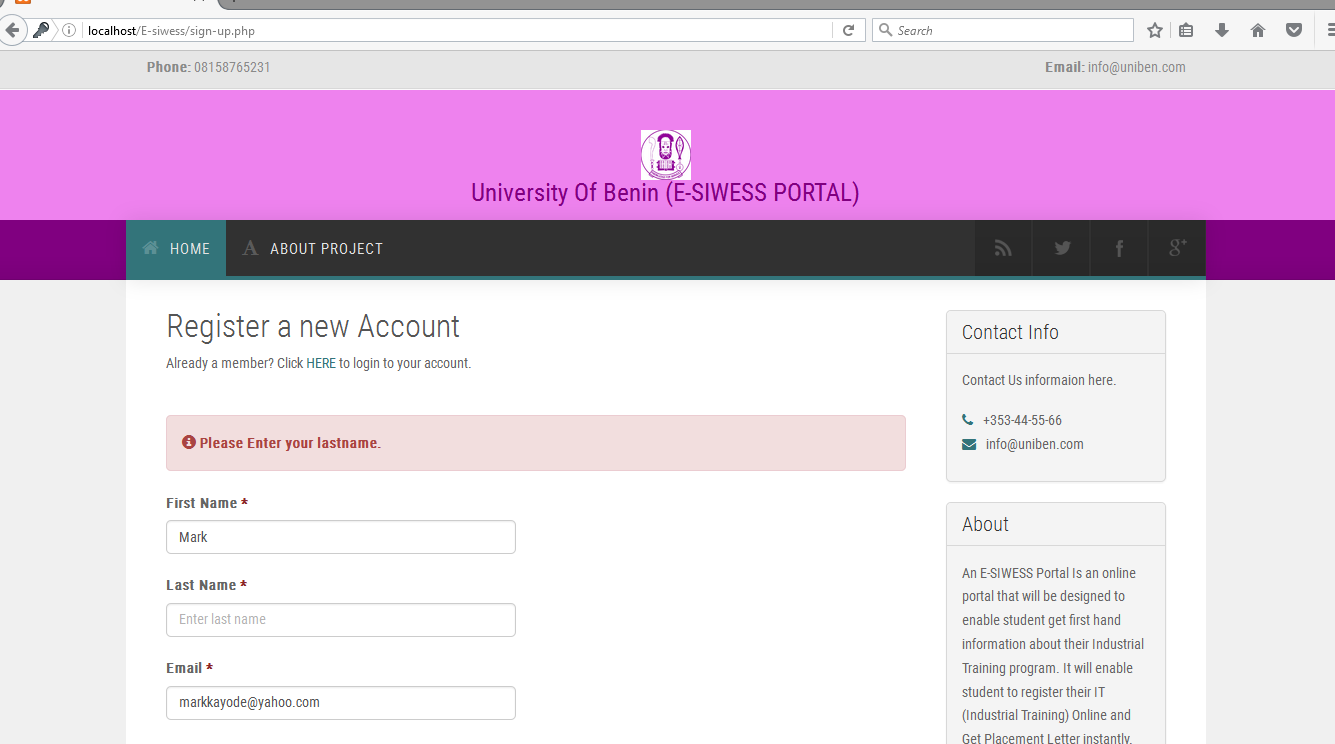


**Fig 5**: Student Registration Page

**REGISTRATION ERROR PAGE**

The registration error page is used to validate user’s inputs. If the user mistakenly omits any field in the form, he/she would be prompted by the system to please enter the field he/she omitted. For example, in the figure below, the user mistakenly omitted his last name, so an error message was returned to the user to please enter his last name.

**Fig 6: Depicts the registration error page**

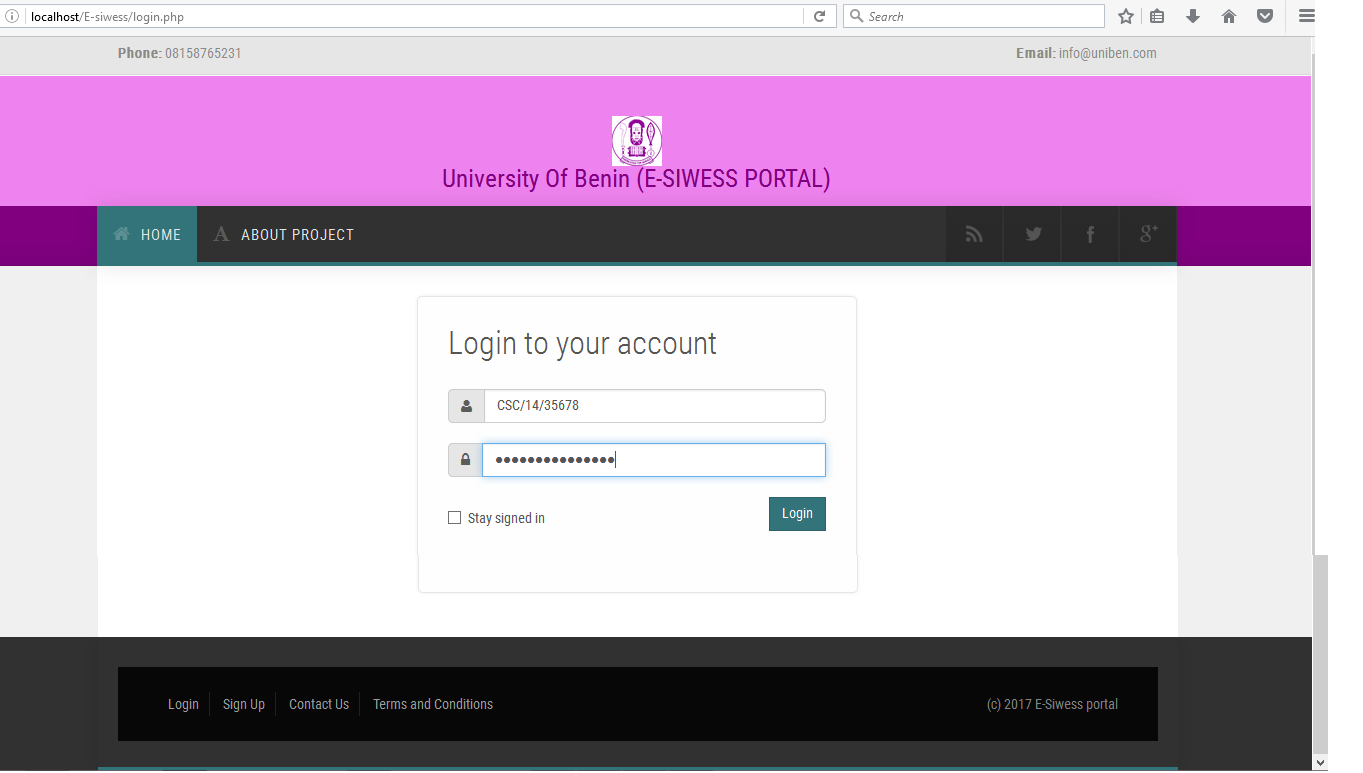


**Fig 7**: Registration Error Page

**LOGIN PAGE**

On successful registration the user would be taken to the login page as shown below. To login to the system, the user would enter his matric number and password.

**Fig 7: Depicts the IT Student Login Page**

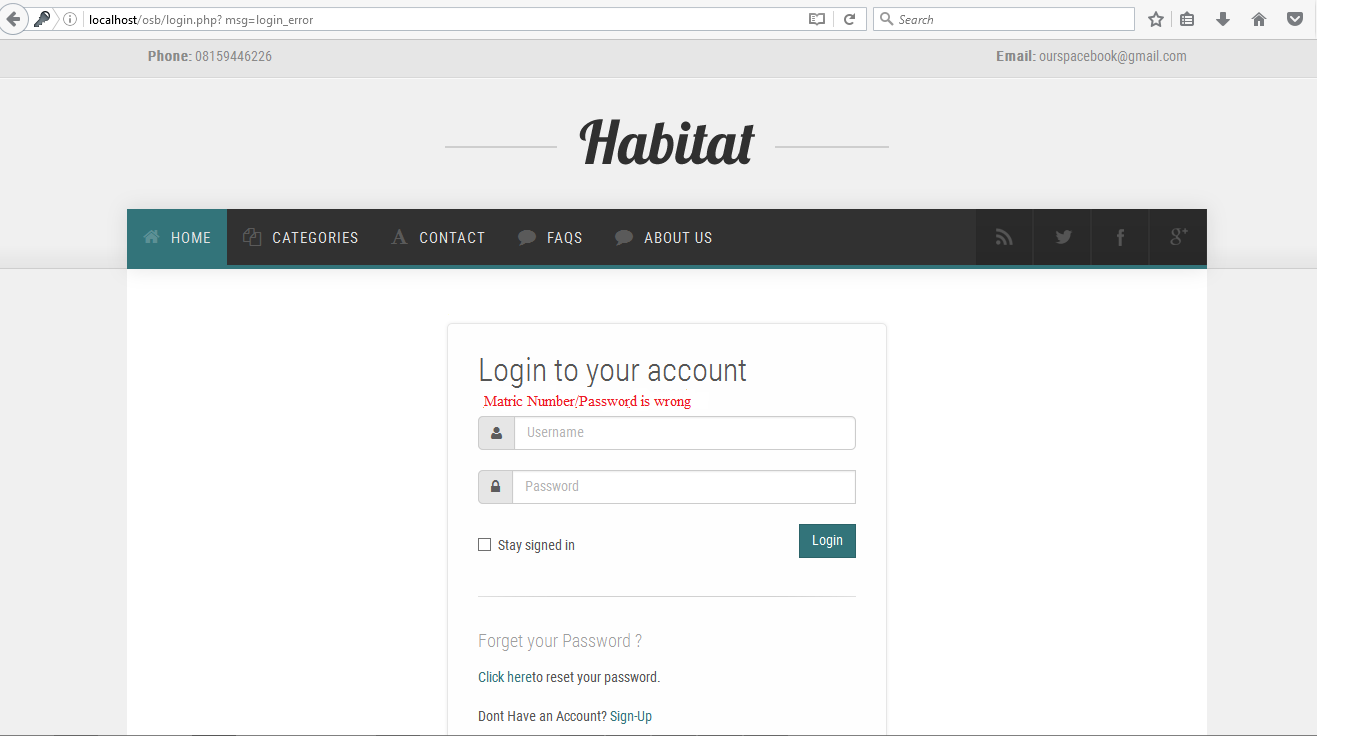


**Fig 7:**  IT Login Page

**LOGIN ERROR PAGE**

If the matric number/password is incorrect, and error message would be displayed to the user indicating the matric number and password entered by the user is wrong.

**Fig 8 Depicts the Login Error Page**

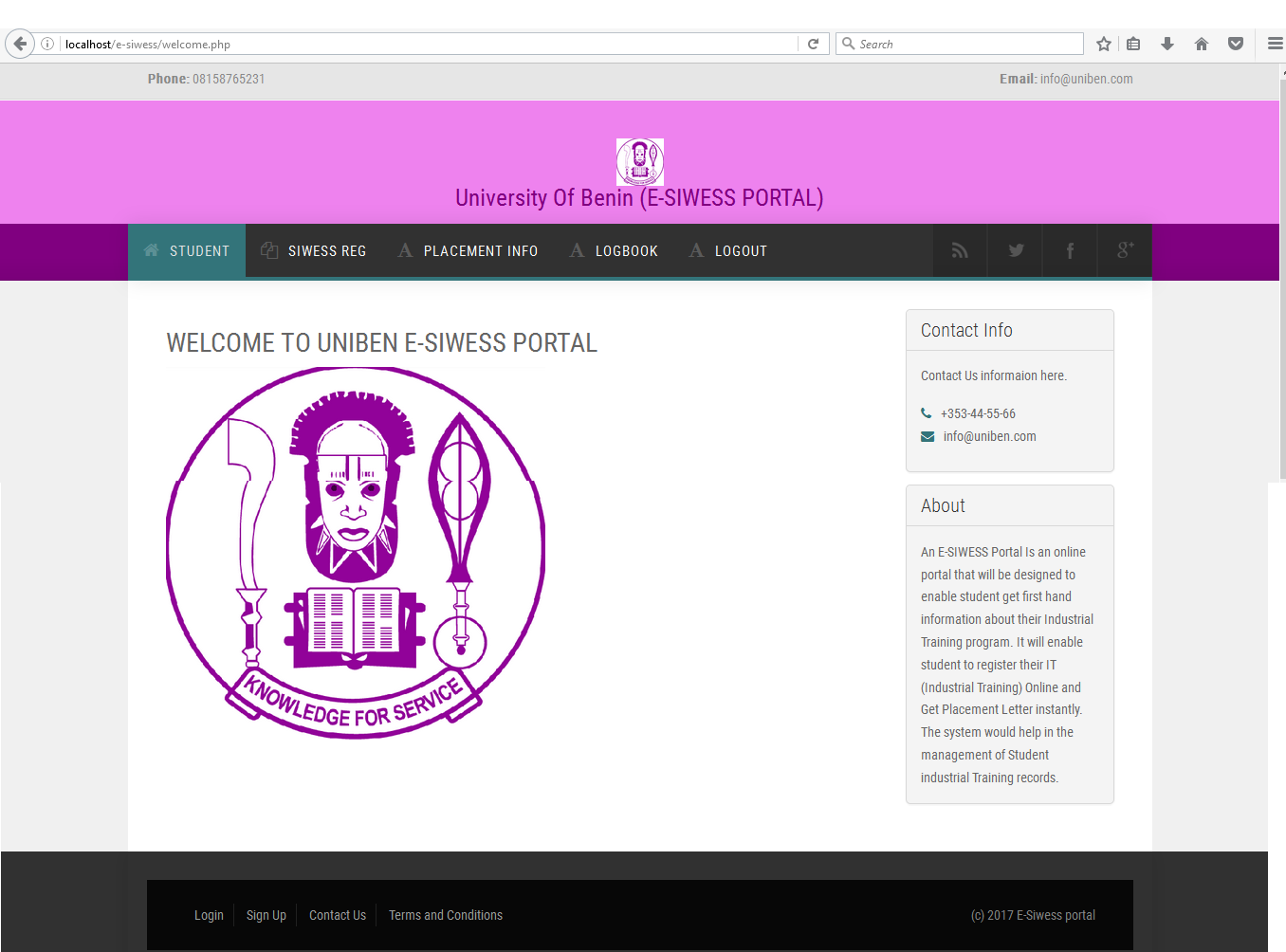


**Fig 8: L**ogin Error Page

**WELCOME PAGE**

The figure below explains and shows the various menus of the website This welcome page background has access to all files and data. It is divided into categories like student, SIWESS registration, Patient Info. It is an Interface for accessing other pages on the website

**Fig 9 Depicts the welcome page**

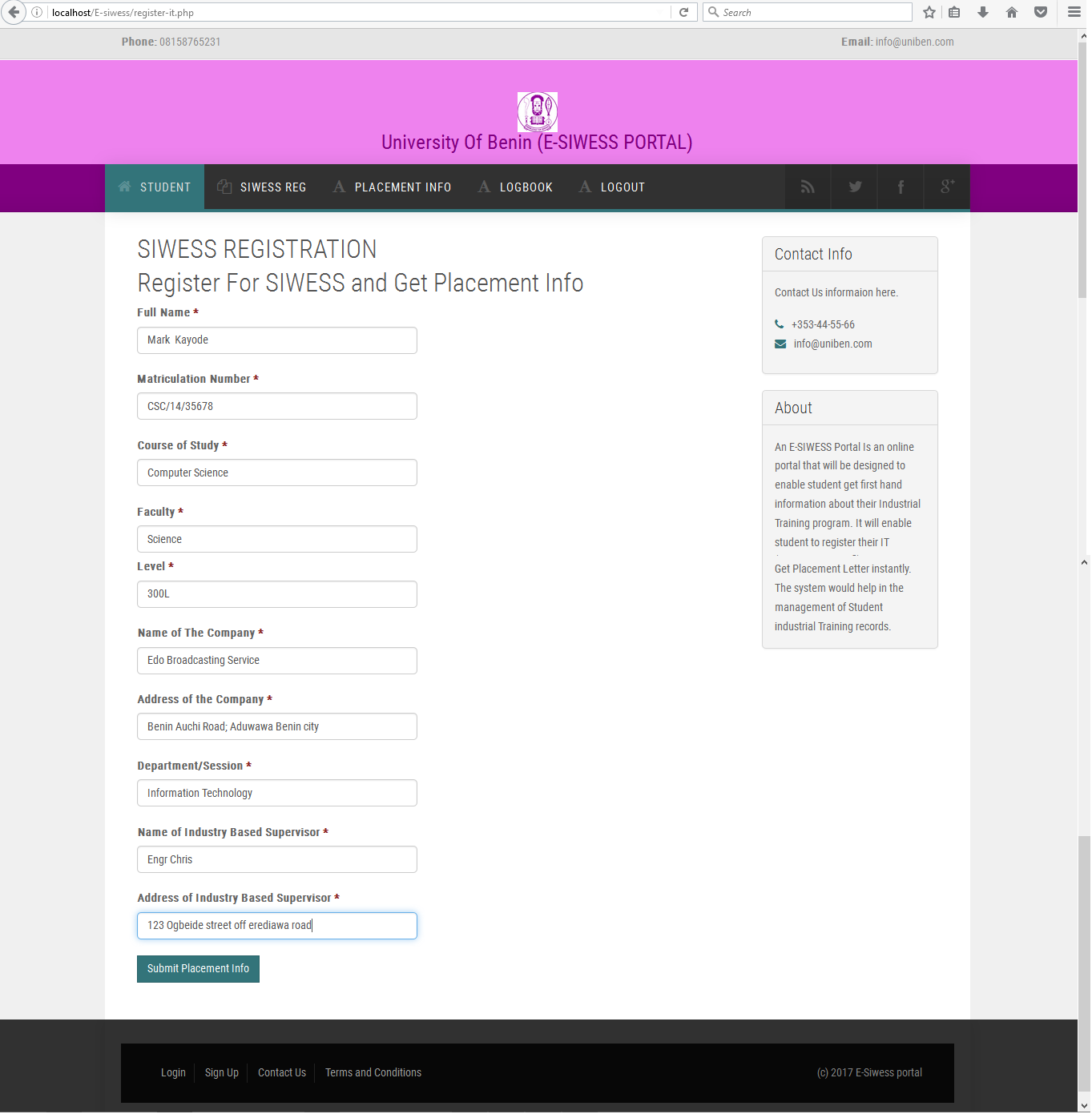


**Fig 9: Welcome Page**

**REGISTER FOR IT PLACEMENT PAGE**

This page enables the student to register for their Industrial training program me and get placement info. The student would have to fill the required fields which include full name, matriculation number, course of study, faculty, level, name of the company, address of the company, department/session, name of industry-based supervisor, and the address of the industry-based supervisor.

**Fig 10 Depicts the register for IT placement page**

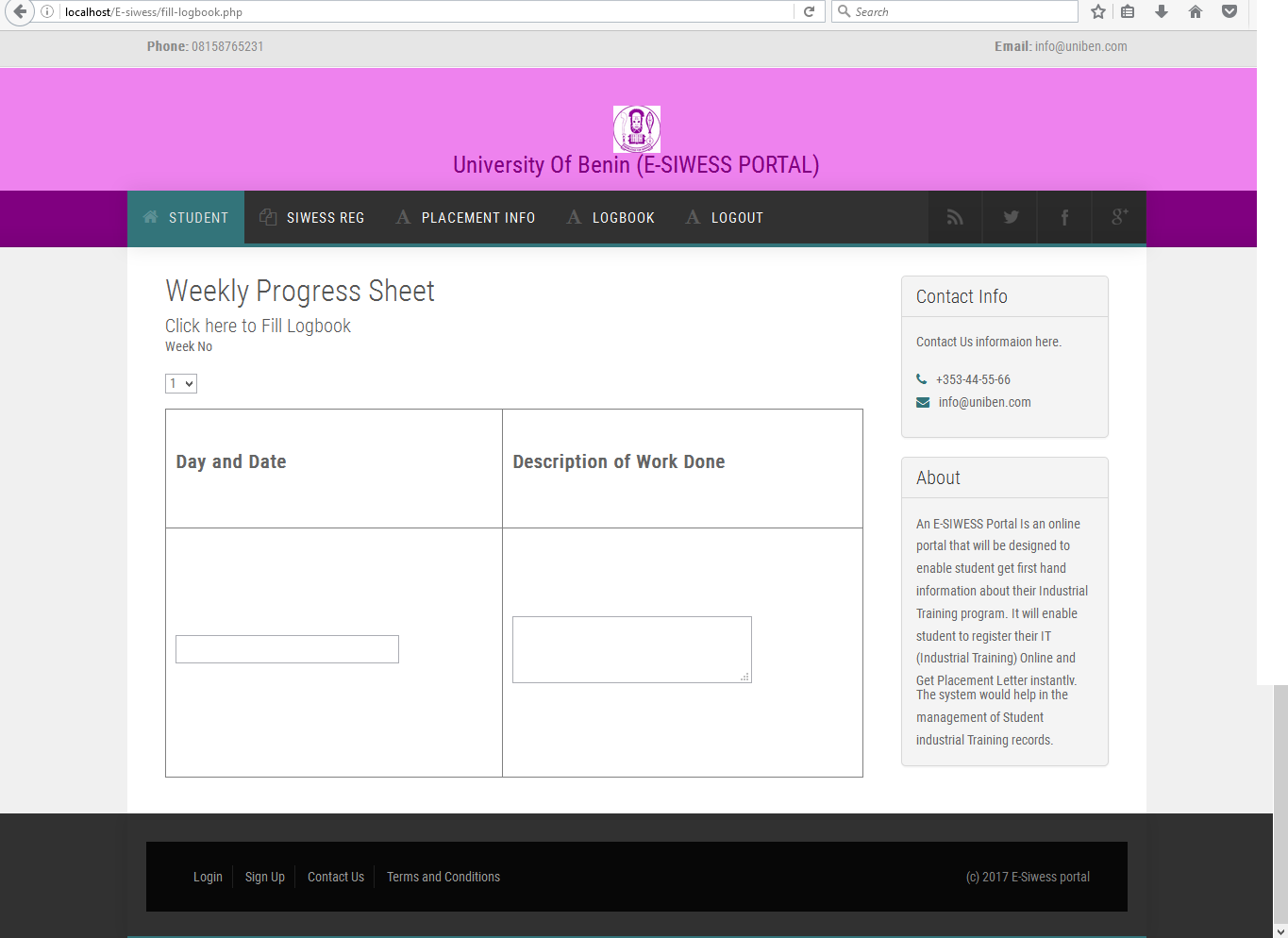


**Fig 10: Register for IT placement Page**

**FILL LOGBOOK PAGES**

Industrial training logbook is used by Industrial training student to document the various work activities carried out by them at their place of Industrial training. It contains the date and the description of the work carried out by the student. In The E-SIWESS portal an online logbook page was created for the student, this would enable the student to fill their logbook online unlike the manual system which requires the student to fill their logbook on paper. The fill logbook page enables the student to fill his/her logbook online. To fill logbook online, student has to enter the week number, the day and date and the description of work he/she did for that day.

**Fig 11 Depicts the Fill Logbook Page**

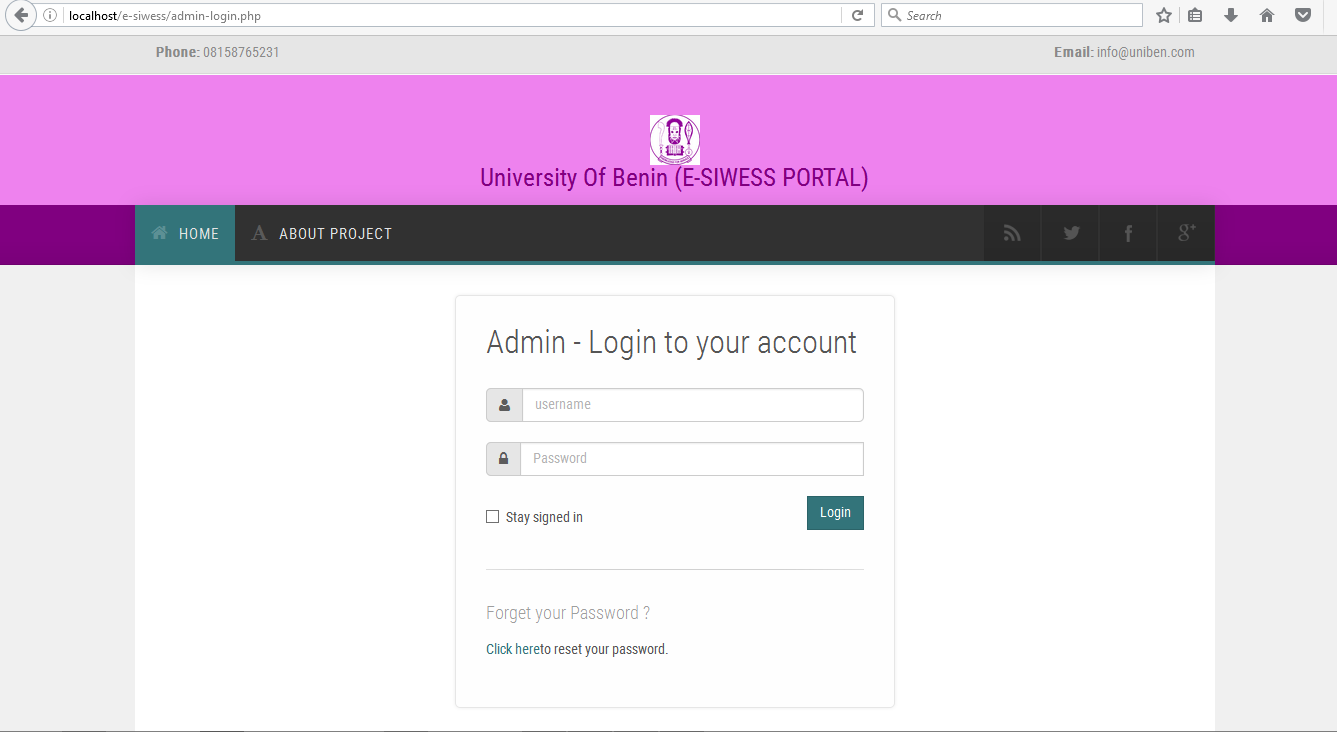


**Fig 11:**  Fill Logbook Page

**ADMIN LOGIN PAGE**

Before admin can create student profile, he/she must first login to the system with his username and password

**Fig 12 Depicts the Student record page**

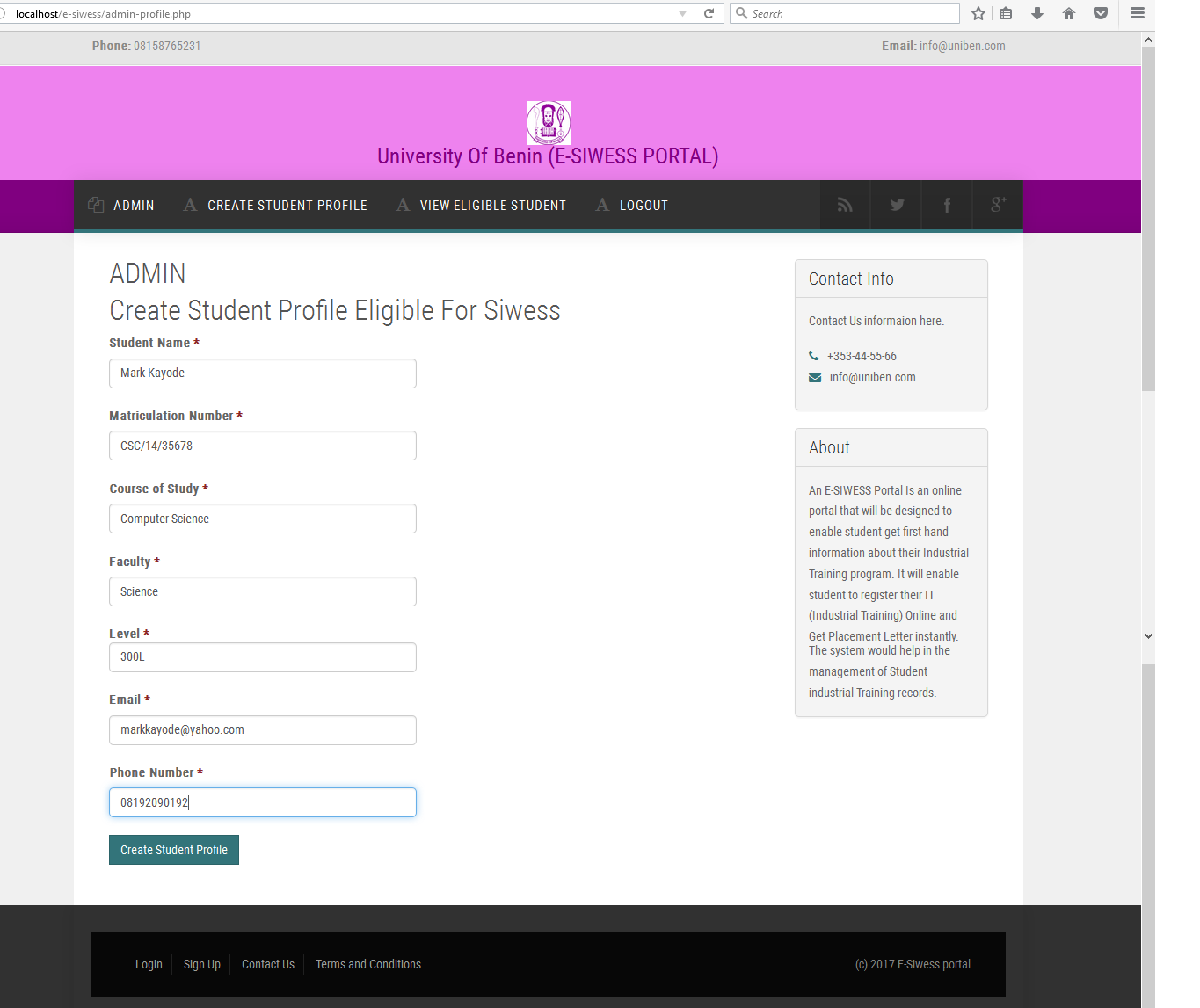


**Fig 12:** Admin Login Page

**ADMIN CREATE STUDENT PROFILE PAGE**

This page enables the admin to create student eligible for SIWESS

**Fig 13 Depicts the create student eligible for SIWESS Page**



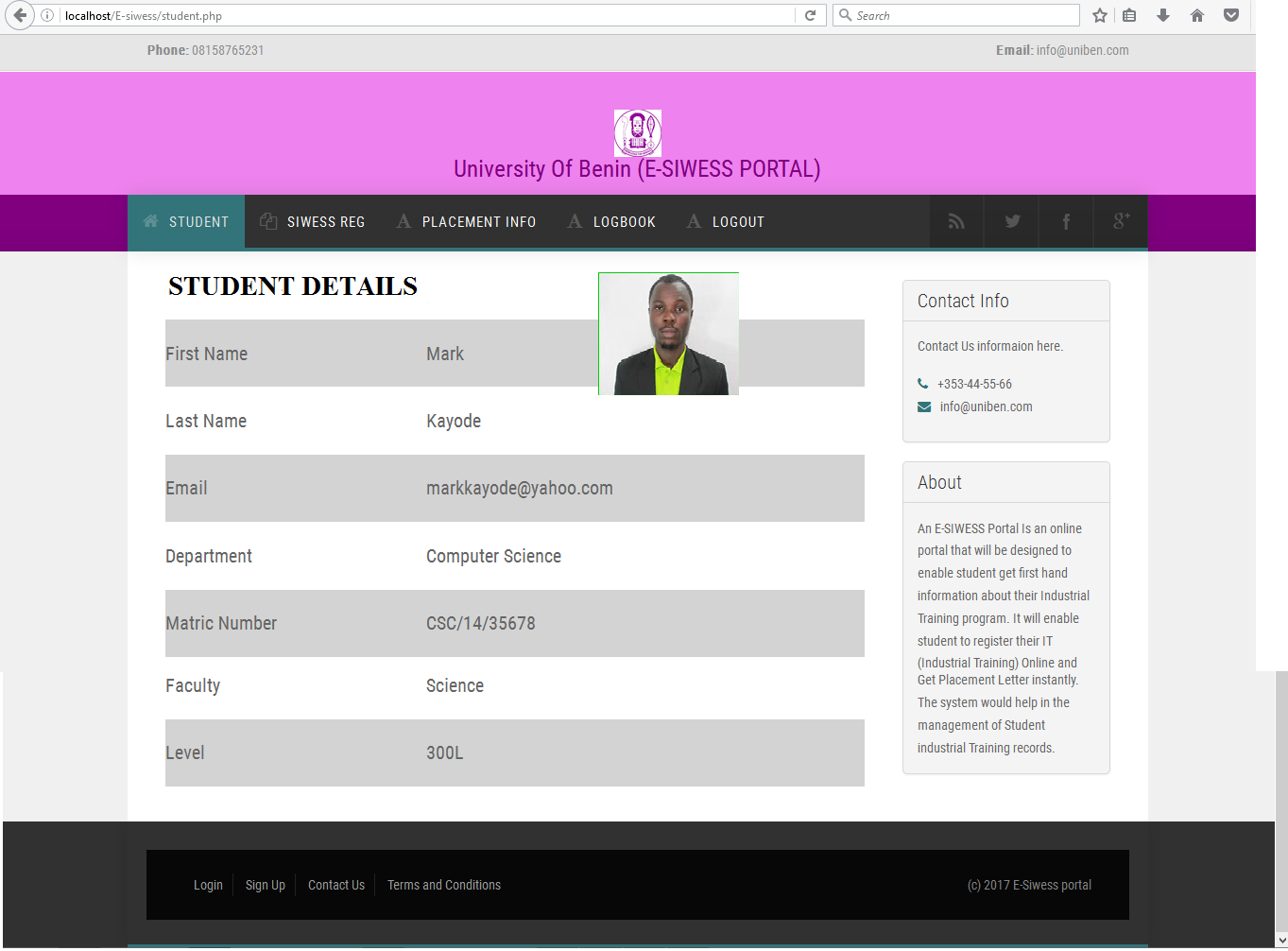
**Fig 13:** Create Student eligible for SIWESS

**SAMPLE IMPLEMENTATION OUTPUT SNAPSHOT**

**STUDENT RECORD PAGE**

The page shows the record of the student after successful registration and login

**Fig 14 Depicts the Student record page**

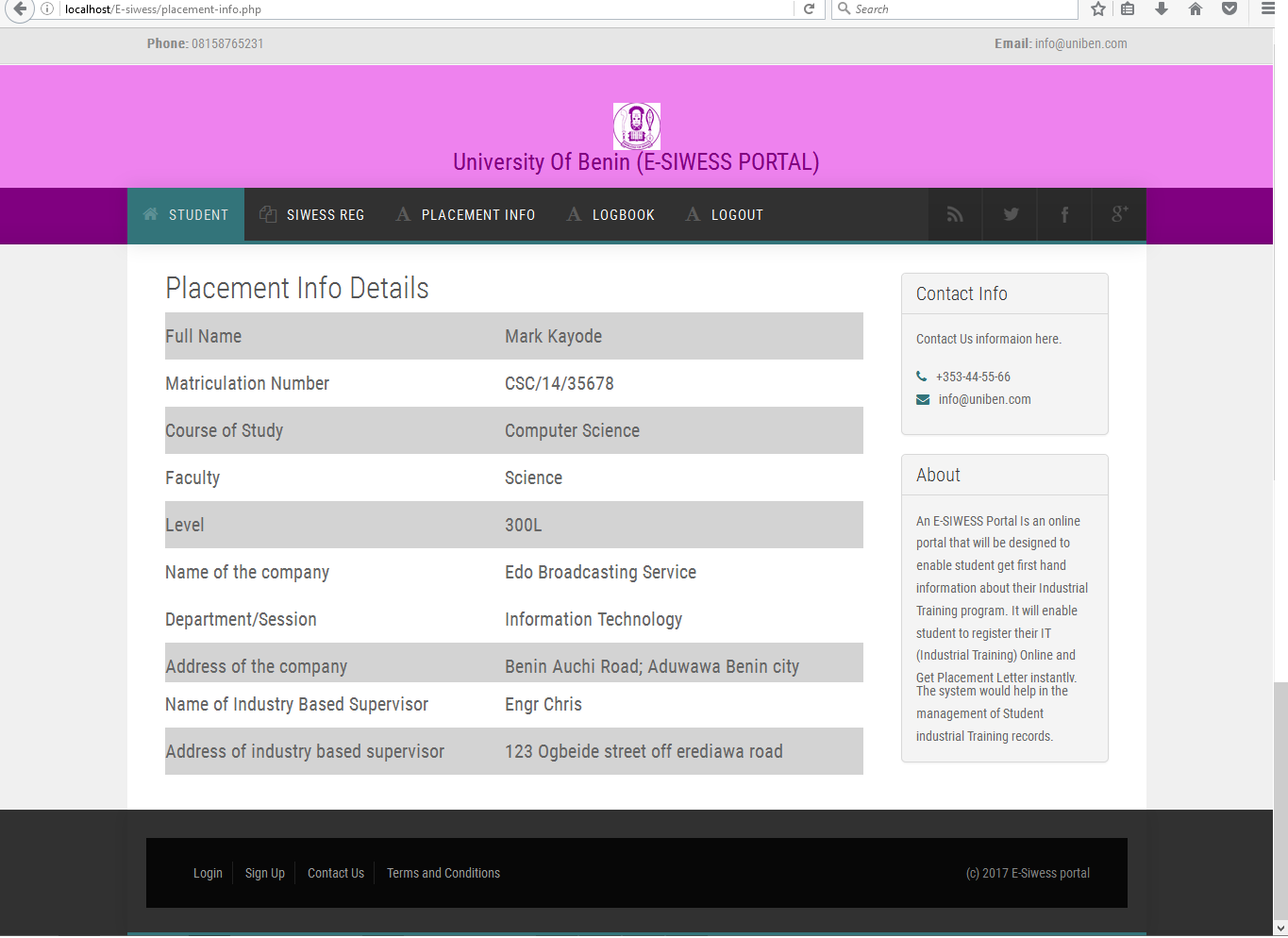


**Fig 14:** Student Record page

**IT PLACEMET INFORMATION PAGE**

This page shows the new shows the student Industrial training placement info. It includes the name of the student, the matriculation number course of study, faculty, level, name of company assigned to the student based on his/her choice, department /session the student was placed in the company, the name of the industry-based supervisor, and the address of the industry-based supervisor.

**Fig 15 Depicts the IT Placement information page**

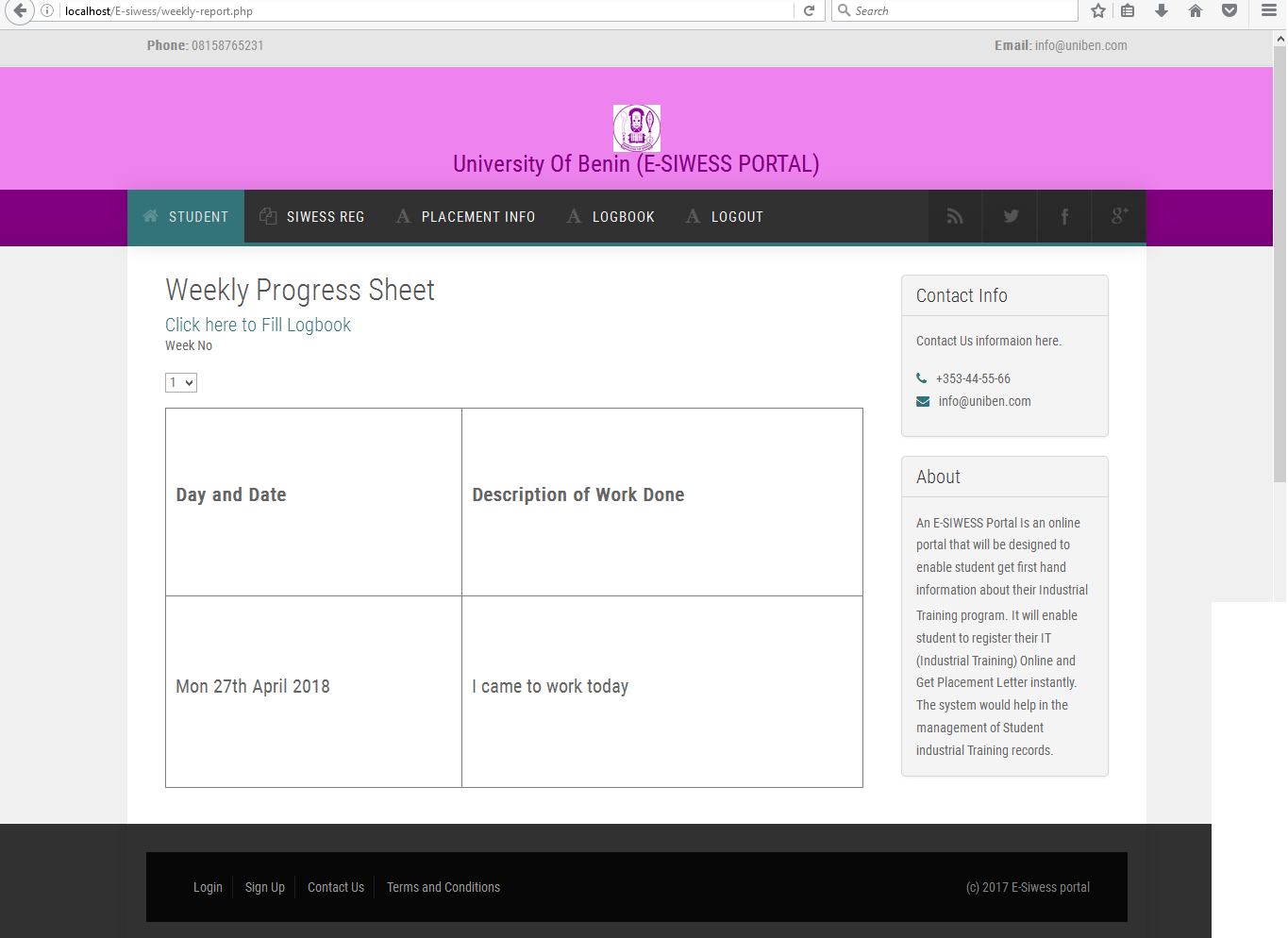


**Fig 15:** IT Placement Information Page

**WEEKLY PROGRESS REPORT PAGE**

This page shows the output of weekly progress report of the student.

**Fig 16: Depicts the Weekly progress report Page**

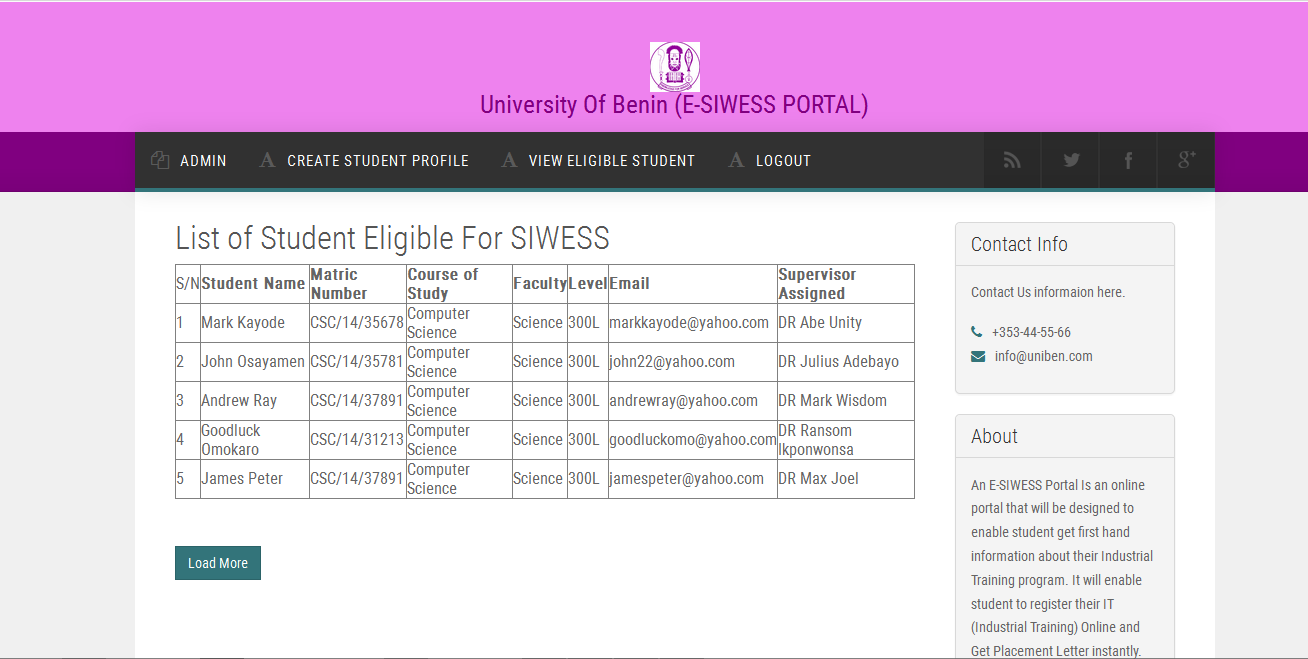


**Fig 16:**  Weekly progress report

**ADMIN VIEW STUDENT ELIGIBLE FOR SIWESS**

This page Admin to view the list of students eligible for SIWESS

**Fig 17: Depicts the view list of students eligible for SIWESS**



**Fig 17:** View List of Student eligible for IT

**(SOURCE CODE)**

<html>

<?php

@ob\_start();

session\_start();

if(isset($\_POST['submitted']))

{

$username = $\_POST['username'];

$password = $\_POST['password'];

$DB\_HOST = 'localhost';

$DB\_USER = 'root';

$DB\_PASS = '';

$DB\_NAME = '';

$db = mysql\_connect($DB\_HOST,$DB\_USER,$DB\_PASS, "my\_db");

mysql\_select\_db("osb",$db);

$sql ="SELECT count(\*) FROM user WHERE username ='$username' and password ='$password'";

$result = mysql\_query($sql);

$check = mysql\_fetch\_array($result);

if($check['count(\*)'] ==1)

{

header('Location: http://localhost/osb/upload-form.php');

$\_SESSION['login'] = 1;

}

else

{

header ('Location: http://localhost/osb/login.php? msg=login\_error');

$\_SESSION['login'] = 0;

}

}

?>

<?php

include "osbheader.php";

?>

<!-- === BEGIN CONTENT === -->

<div id="content">

<div class="container background-white">

<div class="container">

<div class="row margin-vert-30">

<!-- Login Box -->

<div class="col-md-6 col-md-offset-3 col-sm-offset-3">

<form class="login-page" method ="POST" action ="">

<div class="login-header margin-bottom-30">

<h2>Admin - Login to your account</h2>

</div>

<div class="input-group margin-bottom-20">

<span class="input-group-addon">

<i class="fa fa-user"></i>

</span>

<input placeholder="username" name="username" id="username"class="form-control" type="text">

</div>

<div class="input-group margin-bottom-20">

<span class="input-group-addon">

<i class="fa fa-lock"></i>

</span>

<input placeholder="Password" name="password" id="password" class="form-control" type="password">

<input type ="hidden" name ="submitted">

</div>

<div class="row">

<div class="col-md-6">

<label class="checkbox">

<input type="checkbox">Stay signed in</label>

</div>

<div class="col-md-6">

<button class="btn btn-primary pull-right" type="submit">Login</button>

</div>

</div>

<hr>

<h4>Forget your Password ?</h4>

<p>

<a href="#">Click here</a>to reset your password.</p>

</form>

</div>

<!-- End Login Box -->

</div>

</div>

</div>

</div>

<!-- === END CONTENT === -->

<?php

require\_once('footer.php');

?>

<html>

<html>

<!-- === BEGIN HEADER === -->

<!DOCTYPE html>

<!--[if IE 8]> <html lang="en" class="ie8"> <![endif]-->

<!--[if IE 9]> <html lang="en" class="ie9"> <![endif]-->

<!--[if !IE]><!-->

<html lang="en">

<!--<![endif]-->

<head>

<!-- Title -->

<title>E-SIWESS Portal</title>

<!-- Meta -->

<meta http-equiv="content-type" content="text/html; charset=utf-8" />

<meta name="description" content="">

<meta name="author" content="">

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

<!-- Favicon -->

<link href="favicon.ico" rel="shortcut icon">

<!-- Bootstrap Core CSS -->

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

<!-- Template CSS -->

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

<script src="bootstrap/js/bootstrap.min.js"></script>

<link rel="stylesheet" href="assets/css/animate.css" rel="stylesheet">

<link rel="stylesheet" href="assets/css/font-awesome.css" rel="stylesheet">

<link rel="stylesheet" href="assets/css/nexus.css" rel="stylesheet">

<link rel="stylesheet" href="assets/css/responsive.css" rel="stylesheet">

<link rel="stylesheet" href="assets/css/custom.css" rel="stylesheet">

<!-- Google Fonts-->

<link href="http://fonts.googleapis.com/css?family=Roboto+Condensed:400,300" rel="stylesheet" type="text/css">

</head>

<body>

<div id="body-bg">

<!-- Phone/Email -->

<div id="pre-header" class="background-gray-lighter">

<div class="container no-padding">

<div class="row hidden-xs">

<div class="col-sm-6 padding-vert-5">

<strong>Phone:</strong>&nbsp;08158765231

</div>

<div class="col-sm-6 text-right padding-vert-5">

<strong>Email:</strong>&nbsp;info@uniben.com

</div>

</div>

</div>

</div>

<!-- End Phone/Email -->

<!-- Header -->

<div id="header" style ="background-color:violet;">

<div class="container">

<div class="row">

<!-- Logo -->

<div class="logo">

<a href="index.html" title="">

<img src="Uniben.png" alt="Logo" width="50" height ="50" />

<p style ="font-size:25px;color:purple;">University Of Benin (E-SIWESS PORTAL) </p>

<p style ="font-size:18px;color:black;">E-SIWESS PORTAL </p>

</a>

</div>

<!-- End Logo -->

</div>

</div>

</div>

<!-- End Header -->

<!-- Top Menu -->

<div id="hornav" class="bottom-border-shadow" style ="background-color:purple;">

<div class="container no-padding border-bottom">

<div class="row">

<div class="col-md-8 no-padding">

<div class="visible-lg">

<ul id="hornavmenu" class="nav navbar-nav">

<li>

<a href="student.php" class="fa-home active">Student</a>

</li>

<li>

<span class="fa-copy "><a href ="register-it.php" style ="color:white;">SIWESS Reg</a></span>

</li>

</li>

<li>

<span class="fa-font "><a href ="placement-info.php" style ="color:white;">Placement Info</a></span>

</li>

<li>

<span class="fa-font "><a href ="weekly-report.php" style ="color:white;">Logbook</a></span>

</li>

<li>

<span class="fa-font "><a href ="login.php" style ="color:white;">Logout</a></span>

</li>

</div>

</div>

<div class="col-md-4 no-padding">

<ul class="social-icons pull-right">

<li class="social-rss">

<a href="#" target="\_blank" title="RSS"></a>

</li>

<li class="social-twitter">

<a href="#" target="\_blank" title="Twitter"></a>

</li>

<li class="social-facebook">

<a href="#" target="\_blank" title="Facebook"></a>

</li>

<li class="social-googleplus">

<a href="#" target="\_blank" title="Google+"></a>

</li>

</ul>

</div>

</div>

</div>

</div>

<!-- End Top Menu -->

<!-- === END HEADER === -->

</html>

<?php

require\_once('osbheader3.php');

?>

<?php

<?php

require\_once('reg.php');

?>

<?php

<!-- === BEGIN CONTENT === -->

<div id="content">

<div class="container background-white">

<div class="row margin-vert-30">

<!-- Main Column -->

<div class="col-md-9">

<!-- Main Content -->

<div class="headline">

<h2>SIWESS REGISTRATION</h2>

<h2>Register For SIWESS and Get Placement Info</h2>

</div>

<!-- Contact Form -->

<?php

if(isset($errMSG)){

?>

<div class="alert alert-danger">

<span class="glyphicon glyphicon-info-sign"></span> <strong><?php echo $errMSG; ?></strong>

</div>

<?php

}

else if(isset($successMSG)){

?>

<div class="alert alert-success">

<strong><span class="glyphicon glyphicon-info-sign"></span> <?php echo $successMSG; ?></strong>

</div>

<?php

}

?>

<script type ="text/javascript">

function placementinfo(){

alert ("Placement info Successfully Submitted");

}

</script>

<form method="post" enctype="multipart/form-data">

<label>Full Name

<span class="color-red">\*</span>

</label>

<div class="row margin-bottom-20">

<div class="col-md-6 col-md-offset-0">

<input class="form-control" type="text" name="firstname" value="<?php echo $firstname; ?>" />

</div>

</div>

<label>Matriculation Number

<span class="color-red">\*</span>

</label>

<div class="row margin-bottom-20">

<div class="col-md-6 col-md-offset-0">

<input class="form-control" type="text" name="email" value="<?php echo $email; ?>" />

</div>

</div>

<label>Course of Study

<span class="color-red">\*</span>

</label>

<div class="row margin-bottom-20">

<div class="col-md-6 col-md-offset-0">

<input class="form-control" type="text" name="department" value="<?php echo $username; ?>" />

</div>

</div>

<label>Faculty

<span class="color-red">\*</span>

</label>

<div class="row margin-bottom-20">

<div class="col-md-6 col-md-offset-0">

<input class="form-control" type="text" name="faculty" value="<?php echo $username; ?>" />

</div>

</div>

<label>Level

<span class="color-red">\*</span>

</label>

<div class="row margin-bottom-20">

<div class="col-md-6 col-md-offset-0">

<input class="form-control" type="text" name="level" value="<?php echo $username; ?>" />

</div>

</div>

<label>Name of The Company

<span class="color-red">\*</span>

</label>

<div class="row margin-bottom-20">

<div class="col-md-6 col-md-offset-0">

<input class="form-control" type="text" name="matric number" value="<?php echo $username; ?>" />

</div>

</div>

<label>Address of the Company

<span class="color-red">\*</span>

</label>

<div class="row margin-bottom-20">

<div class="col-md-6 col-md-offset-0">

<input class="form-control" type="text" name="address" value="<?php echo $username; ?>" />

</div>

</div>

<label>Department/Session

<span class="color-red">\*</span>

</label>

<div class="row margin-bottom-20">

<div class="col-md-6 col-md-offset-0">

<input class="form-control" type="text" name="department" value="<?php echo $username; ?>" />

</div>

</div>

<label>Name of Industry Based Supervisor

<span class="color-red">\*</span>

</label>

<div class="row margin-bottom-20">

<div class="col-md-6 col-md-offset-0">

<input class="form-control" type="text" name="nov" value="<?php echo $username; ?>" />

</div>

</div>

<label>Address of Industry Based Supervisor

<span class="color-red">\*</span>

</label>

<div class="row margin-bottom-20">

<div class="col-md-6 col-md-offset-0">

<input class="form-control" type="text" name=aos" value="<?php echo $username; ?>" />

</div>

</div>

<p>

<button type="submit" class="btn btn-primary" name="btnsave" onclick ="placementinfo();">Submit Placement Info</button>

</p>

</form>

<!-- End Contact Form -->

<!-- End Main Content -->

</div>

<!-- End Main Column -->

<!-- Side Column -->

<div class="col-md-3">

<!-- Recent Posts -->

<div class="panel panel-default">

<div class="panel-heading">

<h3 class="panel-title">Contact Info</h3>

</div>

<div class="panel-body">

<p>Contact Us informaion here.</p>

<ul class="list-unstyled">

<li>

<i class="fa-phone color-primary"></i>+353-44-55-66</li>

<li>

<i class="fa-envelope color-primary"></i>info@uniben.com</li>

</ul>

</div>

</div>

<!-- End recent Posts -->

<!-- About -->

<div class="panel panel-default">

<div class="panel-heading">

<h3 class="panel-title">About</h3>

</div>

<div class="panel-body">

An E-SIWESS Portal Is an online portal that will be designed to enable student get first hand information about their Industrial Training program. It will enable student to register their IT (Industrial Training) Online and Get Placement Letter instantly. The system would help in the management of Student industrial Training records.

</div>

</div>

<!-- End About -->

</div>

<!-- End Side Column -->

</div>

</div>

</div>

<!-- === END CONTENT === -->

<?php

require\_once ('footer.php');

?>

h1>WELCOME TO UNIBEN E-SIWESS PORTAL</h1>

<p><img src ="Uniben.png" width="400" height ="400"></p>

<!-- End Contact Form -->

<!-- End Main Content -->

</div>

<!-- End Main Column -->

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</html>

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