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Research

The research methodology is simply managed by the earlier simulations with the fact that the earlier approaches [4] (Kaur & Gupta, 2016) are simply the ones that are to be gone through thoroughly and the facts that have come to the notice are the ones that have been listed below:

- The student utilized the offline method for the course registration, and this employs the filling of a different form termed as a yellow form that has to be filled each for the course that has to be selected [2]. (Bailey, 2016).
- The earlier methodology required the student to get these filled forms to get signed by the respective authorities and then the simply the form needed to be filled accordingly by the students and correct as being prescribed by the advisor or authorities.
- The signing is the last stage as after this the form is to be submitted by the students along with the fees for the course to be registered in the administrative block and the fact that came to the notice is the simple reception of one of the copies of the yellow form that were being filled by the student as well as the fee receipt for the submission of the fees.
- Finally, the remaining formalities are accomplished by the faculties and the students as they are already annoyed till the completion of the form is achieved [1]. (Al-Hawari, 2017).

As it can be seen that this whole procedure is both typical and excruciating both for the students as well as the faculties so the new system of online registration [7] (Uko, 2018) is being proposed.

The new system includes:

1. Admin: This is the fact that implies that the admin board must be granted over the students so that the user can be specified as well as the management of the same can be established in the same field and the fact that these are no longer in the existence will simply rule out the application. It might be best for the application to have such boundaries such that the deployment of services can be specified. The fact that the more services are supplied to the user like the student then it might cause havoc in the situation. The most important aspect is to first identify as well as arrange whether the services are to be deployed to the user or

not. This can be achieved by the simple classification of the users with priorities such that the implications such as above can be reduced.

2. Masters: It is the simple handling of the services as well as SQL-based database management such that the priorities remain dignified. The important aspect that the students have to select their courses can be accomplished mostly by the utilization of the same policy and the fact that the more is the number of utilizations the more are the implications in the simple aspect of the tables. The more are the tables the more is the utilization of the calculation-based procedures is required in the application leading to a super qualified web-application capable enough to maintain and record the specific set of courses as well as student details.
3. Transactions: These are the look-out posts. These posts are utilized just in case an application is being threatened and this can be taken care of by the simple check-up of the activities being carried out by the students as well as the faculty as well as the department coordinators. The activities that have been carried out by the same will be kept under the track such that the implication of activities can be held with precision and the one responsible for the same can be given with a proper punishment as is being deserved by them.
4. Reports: these are the look-out reports that are being conducted by the transaction, masters as well as the admin such that the security and integrity of the system can be kept under complete check such that there might be not a chance for the demise of the application. The more are the reports the less stable is the application and accordingly the certain and preferable measures can be set up by the admin section such that the activities can be kept under control.
5. Utilities: These are the last and the most prospered one prospect that is to be kept under the check by the same authorities that have been providing the same in the time being. The fact that the more and more utilization of the same will give rise to the other kinds of the simple by-products that are under a similar charge and the fact that the minimal amount reaches the goal it is must that the similar approaches and aspects are utilized. The SQL datasheets are managed in these such that in case of any kind of malfunction the same can come in handy as these are by the name suggests the opportunities that might affect the same. The

fact that the minimized approach is headed for the same is the fact that more and more prospect is to be carried out over and over the eventual defiance of the same. The utilities are the simplest of all and the common of all the abilities to be held under the watch such that same can be approached and the fact that the mediated results for the same can be arranged.

The beginning of the system [3] (KanayoKizito & Nwabueze) that is being proposed for the same and the fact that the organization requires the management and for the same the admin module proposes the addition as well as the deletion of the members that have been allowed inside the system. The admin has the authority to add as well as remove the members from the specified settings on the online platform. The members utilizing their own log-in Identity can simply access the portal and utilize the same for the various processes of the selection as well as the registration of the courses. Currently, the proposed Identities are the students, HODs, Dean, account officer, faculty, and the registrar.

As is required the next step requires a master classification with categories so that the requirement of the kinds of handles is insisted. The handler has the classification of all kinds of courses as well as the subject and the dates onto which the registration of the same ends and the deadlines for the submission of the same. So basically it consists of and maintains the database tables for the submission of the same.

The transaction module reduces the excruciating insertion of the database on and on every semester and the fact that the more and more implications are there the more typical the works become. That's why the same work is carried out at the beginning of the semester resulting in the simple database being utilized over and over by the student in the same set of semesters.

The next comes the reports module and the fact that the lookout of the database is being managed and the simplification in the kind of database management as well as keeping the track of the activities that are being carried out by the above three modules that consist of the admin, masters, transaction, etc. are one of the facts that are kept for the lookout of the same.

Utilities are the last of the possibilities that have been utilized by the system and the fact that the database tables are being managed in the SQL formats and the simple deduction of the factors in the matter of the same procedures. The utilities require the prospects that might include the feature

outcome in the case scenarios that have been discussed in the same. Similar strategies have been proposed for the management as well as the utilization of the methodologies for the better management of the same aspects.

Introduction

The project includes the establishment of a web-based application system that can be accessed by the students so that they can be able to online registration as well as select the courses for the same. The same selection of the courses are being required by the students to accomplish in each of the semesters and the same can be completed will be handy in the case and the fact that the application can be accessed on any of the platforms whether it be the selection of the course as well as the fees submission can be accomplished in the same platform/portal the most prominent feature that might simply allow the user to access the same in the similar time interval.

The project also requires a complete report to be managed so that the similar methodology can be easily be understood by the user of the system such that the study is being planned to be gone thoroughly over the project and the fact that the major accomplishes of the project can be easily be understood by the others that might utilize the system. The fact that the students are needed to be cautious when filling the form is one of the prominent aspects as the matter is the simple introduction of the SQL for the database tables and the other kinds of management such that the web-application can perform brilliantly among the students and there is not a chance for the miscalculation.

Testing

The testing of the website is carried out using various test cases. With the help of test cases, the validation of various components on the website was achieved. As a result, the website became better and the quality of the interaction was improved. The test cases which were used to improve the website are as follows –

Test case 1

All the forms on the website should be validated. No form should process any empty information in the database. To ensure that no field in any form in the website can be left empty, the ‘required’ attribute is used as shown below –

```
<div class="form-group">
  <label class="form-label">Email ID</label>
  <input type="email" class="form-control" name="emailid" placeholder="Enter your Email ID" tabindex="1" required="">
</div>
<div class="form-group">
  <label class="form-label">Password</label>
  <input type="password" class="form-control" name="password" placeholder="Enter your password" tabindex="3" required="">
</div>
```

This is the code of the login form. As seen above, the required attribute is used so that no empty information could be processed. An example of the message shown if a field is left empty is shown below –

Login Here

Email ID

Password

! Please fill out this field.

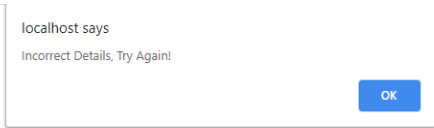
Login

Test case 2

The login form on the main page of the website should grant access to both students and administrators and also provide validation. The following code was used to achieve the test case results –

```
$loginusername=$_POST['emailid'];
$loginpassword=$_POST['password'];
$adminsqli="select * from admin where emailid='".$loginusername."' and password='".$loginpassword."'";
$adminresult = mysqli_query($conn,$adminsqli);
$admincount = mysqli_num_rows($adminresult);
$studentsqli="select * from students where emailid='".$loginusername."' and password='".$loginpassword."'";
$studentresult = mysqli_query($conn,$studentsqli);
$studentcount = mysqli_num_rows($studentresult);
if($admincount==1){
    $_SESSION['loggedadmin']=$loginusername;
    $row = mysqli_fetch_array($adminresult,MYSQLI_ASSOC);
    $_SESSION['loggedadminname']=$row['fullname'];
    echo "<script>alert('Admin Login Successful!'); window.location = 'admin/index.php';</script>";
}
else if($studentcount==1){
    $_SESSION['loggedstudent']=$loginusername;
    $row = mysqli_fetch_array($studentresult,MYSQLI_ASSOC);
    $_SESSION['loggedstudentname']=$row['fullname'];
    echo "<script>alert('Student Login Successful!'); window.location = 'students/index.php';</script>";
}
else {
    echo "<script>alert('Incorrect Details, Try Again!'); window.location = 'index.php';</script>";
}
```

In this code, the email id and password which are submitted using the login form are stored in two variables. The admin table and students table are checked if the details match any record in both the tables. If any record matches in the admin table, the user is redirected to the administrator dashboard but if it matches in the students table, the user is redirected to the student dashboard. If the submitted details are incorrect, an alert message is generated as shown below –



localhost says
Incorrect Details, Try Again!

OK

Test case 3

No user could access the administrator dashboard or the student dashboard without logging in. For administrator, the following code was used on top of every webpage to ensure that no user could enter without logging in –

```
if(!isset($_SESSION['loggedadmin'])){  
    echo "<script>alert('Kindly Login First!'); window.location = '../index.php';</script>";  
    die();  
}
```

For students, the following code was used on top of every webpage to ensure that no user could enter without logging in –

```
if(!isset($_SESSION['loggedstudent'])){  
    echo "<script>alert('Kindly Login First!'); window.location = '../index.php';</script>";  
    die();  
}
```

The session values seen above in both the screenshots are assigned on successful login. The session values are different for administrators and students. If anyone tries to access any dashboard without logging in, an alert message is shown and he/she is redirected to the login page immediately. The alert message is shown below –



Evaluation

The application can be utilized in the minimal faction that the web-based platforms [5] (Kumar, 2016) are to be initialized in the same procedure and the more are the implications during the simulations the best way the application is made capable of the process to be held during the real-time sessions being employed by the users in the real world.

The fact that the application is based on that fact that the database managed as well as deduced during the procedure is well established and the fact that the same can be accomplished by the tedious simulations over the online platform [6] (Manita) and the server requirements of the web-application must also be kept under check. The fact that the minimized track of the server is required to be kept under the check as the simplified check might help improve the concept of the same application and the minimal advantage is gained over which the lag or delay in the server can be coped in the tedious conditions such that the minimal growth is being overcome by the dignified reporting that have been obtained by the close keeping of the clock.

The factor that affects the application the most is the session timing as these are the ones that befall in the wrong and opposite conditions that can't be kept under watch unless a 24-hour basis watch is assigned for the same as many students want to access the server in the same time duration and the some of the late approaching students who want an extension in the deadlines also cause effects over the application.

These features are the ones that are affecting the application in more than several ways and treating the same with the hook or crook bias. This bias will lead to the implication of the exact computation of the same database that has been assigned in the order that the methodology remains malleable and there might not be any chance of any miscalculation in the variables leading to the defect in the web-based application.

The constant and consistent delays provided to the web-application might sound a bit tenacious but they are best for the simplification of the same methodology and the procedures that have been realized as well as the incorporation of those factors influences the web-application. The consistent fact that has yet to be realized is the simple amplification in the number of students over time and

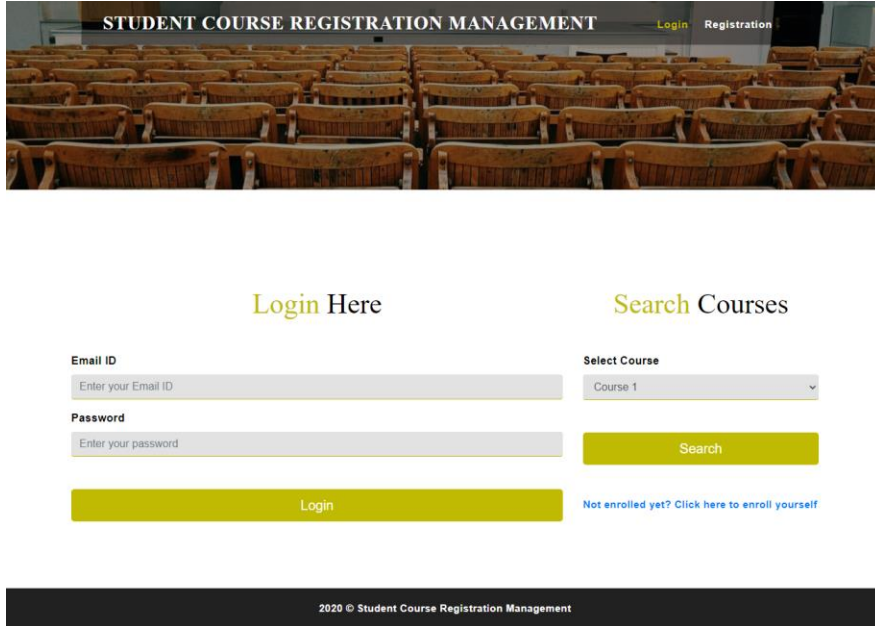
the more are the students there are more chances for the inadequacy of the system to act as a mishandled web application.

References

- [1] Al-Hawari, F., 2017. MyGJU student view and its online and preventive registration flow. *International Journal of Applied Engineering Research*, 12(1), pp.119-133.
- [2] Bailey, T.L. and Brown, A., 2016. Online student services: Current practices and recommendations for implementation. *Journal of Educational Technology Systems*, 44(4), pp.450-462.
- [3] KanayoKizito, U. and Nwabueze, E.E., Web Based Students' Record Management System for Tertiary Institutions.
- [4] KAUR, H. and GUPTA, O., 2016. Development of Online Student Course Registration System.
- [5] Kumar, B.A., 2016. Layered Architecture for Mobile Web Based Application: A Case Study of FNU Student Registration System. *International Journal of Software Innovation (IJSI)*, 4(3), pp.51-64.
- [6] Manita, I.H., Software Architecture and Design for Online Registration System.
- [7] Uko, O.E., 2018. Universal Electronic Student Course Registration Model (U-ESCRM). *American Scientific Research Journal for Engineering, Technology, and Sciences (ASRJETS)*, 40(1), pp.1-5.

Appendix

Home page –



The screenshot shows the home page of the Student Course Registration Management system. The header features the title "STUDENT COURSE REGISTRATION MANAGEMENT" and navigation links for "Login" and "Registration". The background image is a lecture hall with rows of wooden chairs. The main content area is divided into two sections: "Login Here" and "Search Courses". The "Login Here" section includes input fields for "Email ID" and "Password", a "Search" button, and a "Login" button. The "Search Courses" section includes a "Select Course" dropdown menu, a "Search" button, and a link for "Not enrolled yet? Click here to enroll yourself". The footer contains the copyright notice "2020 © Student Course Registration Management".

STUDENT COURSE REGISTRATION MANAGEMENT

Login Registration

Login Here

Search Courses

Email ID

Enter your Email ID

Password

Enter your password

Select Course

Course 1

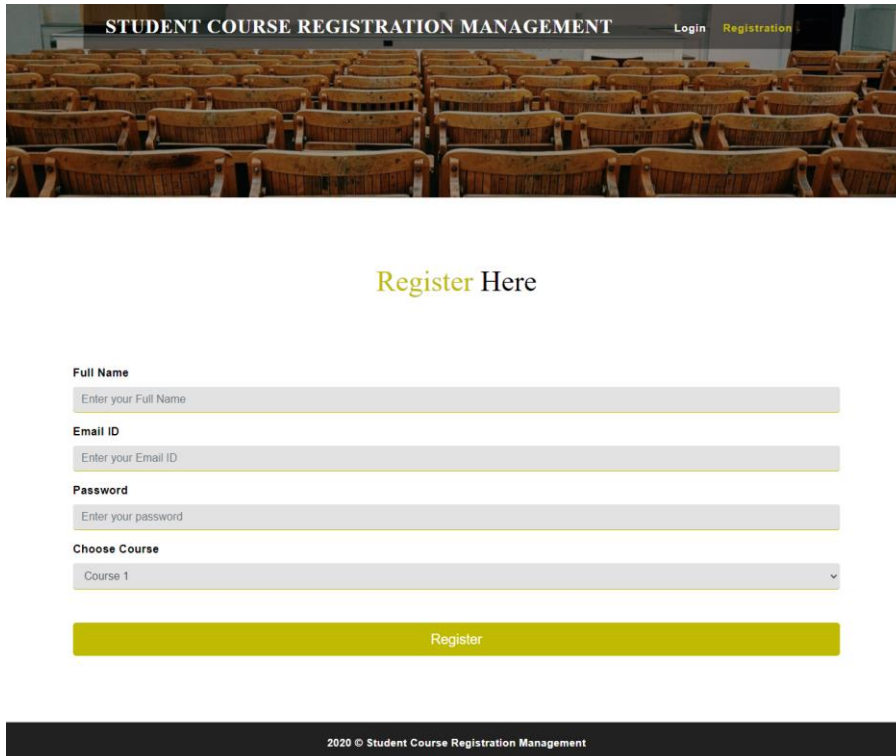
Search

Login

Not enrolled yet? Click here to enroll yourself

2020 © Student Course Registration Management

Registration page –



The screenshot shows the registration page of the Student Course Registration Management system. The header features the title "STUDENT COURSE REGISTRATION MANAGEMENT" and navigation links for "Login" and "Registration". The background image is a lecture hall with rows of wooden chairs. The main content area is divided into two sections: "Register Here" and "Choose Course". The "Register Here" section includes input fields for "Full Name", "Email ID", and "Password", and a "Register" button. The "Choose Course" section includes a dropdown menu for "Course 1". The footer contains the copyright notice "2020 © Student Course Registration Management".

STUDENT COURSE REGISTRATION MANAGEMENT

Login Registration

Register Here

Full Name

Enter your Full Name

Email ID

Enter your Email ID

Password

Enter your password

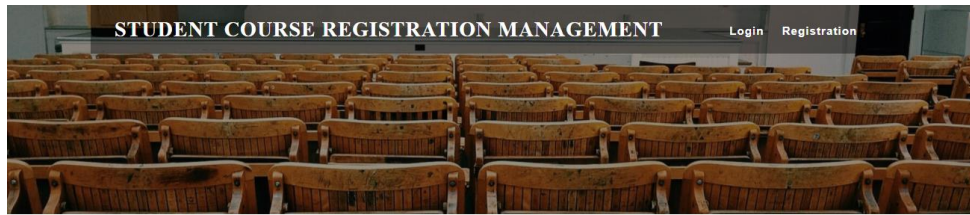
Choose Course

Course 1

Register

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Search result page –



Course Information

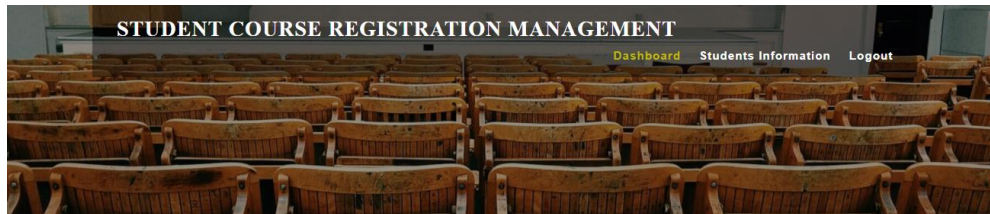
COURSE NAME: COURSE 2

Details of the modules in this course -

1. Module I
2. Module J
3. Module K
4. Module L
5. Module M
6. Module N
7. Module O
8. Module P

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Administrator dashboard page –



Administrator Profile

Full Name

Cathy Kelly

Email ID

cathykelly@gmail.com

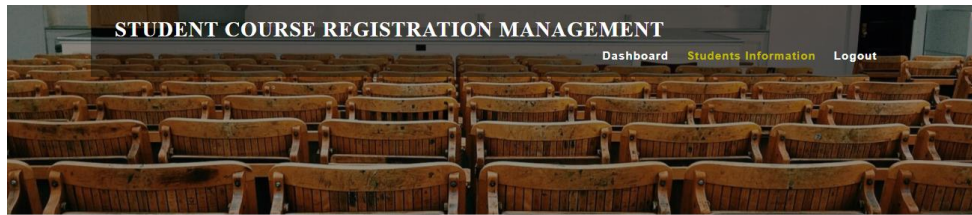
Password

ck@123

Update

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Administration students' information page –

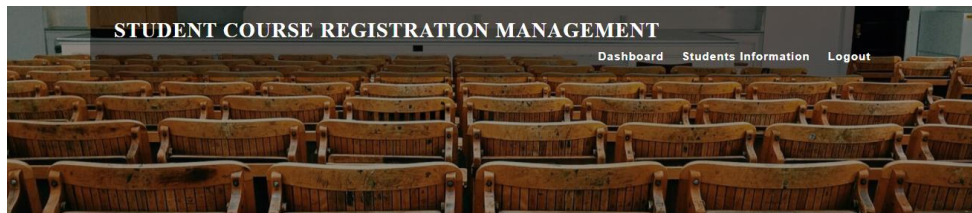


Students Information

Student Name	Student Email ID	Course Enrolled	Delete	Update
Adam Cole	adamcole@gmail.com	Course 1	Delete	Update

2020 © Student Course Registration Management

Administrator update student details page –



Update Student

Full Name

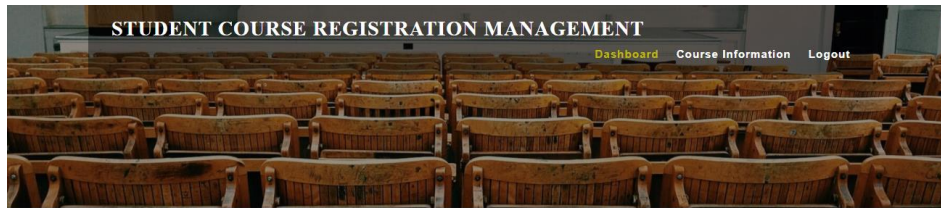
Email ID

Password

Choose Course

2020 © Student Course Registration Management

Student dashboard page –



Student Profile

Full Name
Adam Cole

Email ID
adamcole@gmail.com

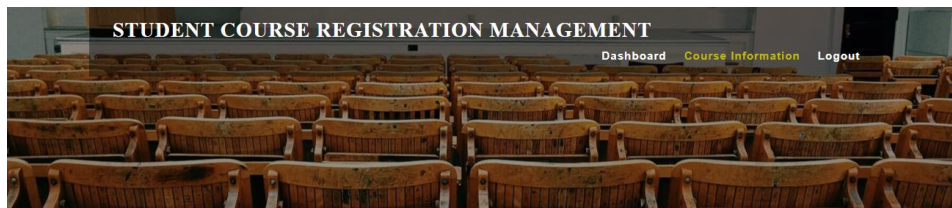
Password
qwerty123456

Choose Course
Course 1

Update

2020 © Student Course Registration Management

Student course information page –



Course Information

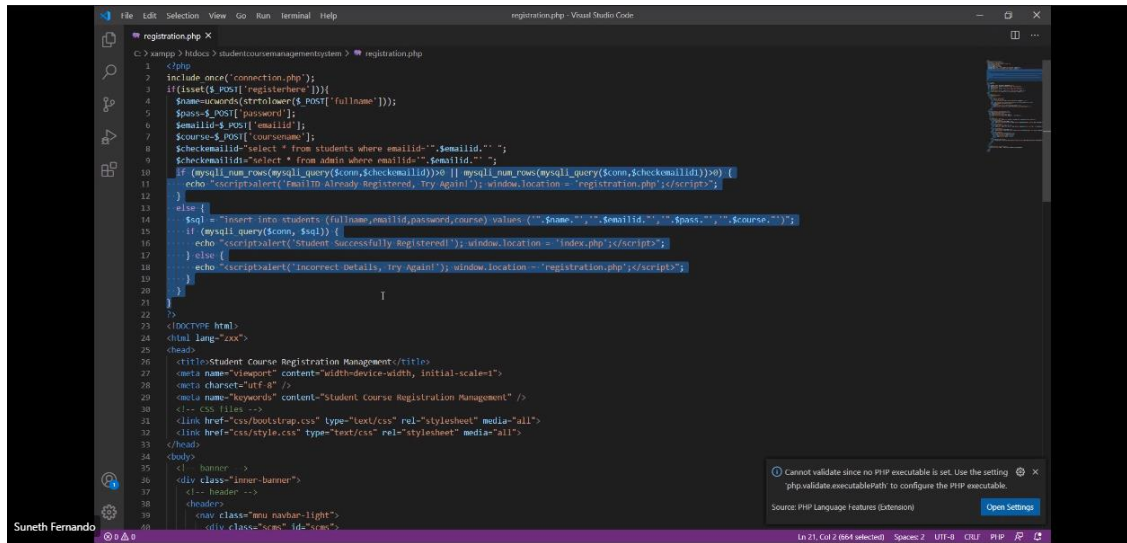
COURSE NAME: COURSE 1

Details of the modules in this course -

1. Module A
2. Module B
3. Module C
4. Module D
5. Module E
6. Module F
7. Module G
8. Module H

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Registration code –



```
1 <?php
2 include_once('connection.php');
3 if(isset($_POST['registerhere'])) {
4     $name=ucwords(strtolower($_POST['fullname']));
5     $pass=$_POST['password'];
6     $email=$_POST['emailid'];
7     $course=$_POST['course'];
8     $checkemailid="select * from admin where emailid='".$emailid."' ";
9     $checkemailid=mysqli_query($conn,$checkemailid);
10    if (mysqli_num_rows(mysqli_query($conn,$checkemailid))>0 || mysqli_num_rows(mysqli_query($conn,$checkemailid))>0) {
11        echo "<script>alert('Email ID Already Registered, Try Again!'); window.location = 'registration.php';</script>";
12    }
13    else {
14        $sql = "insert into students (fullname,emailid,password,course) values ('".$name."','".$emailid."','".$pass."','".$course."')";
15        if (mysqli_query($conn,$sql)) {
16            echo "<script>alert('Student Successfully Registered!'); window.location = 'index.php';</script>";
17        } else {
18            echo "<script>alert('Incorrect Details, try Again!'); window.location = 'registration.php';</script>";
19        }
20    }
21 }
22 ?>
23 <!DOCTYPE html>
24 <html lang="zxx">
25 <head>
26 <title>Student Course Registration Management</title>
27 <meta name="viewport" content="width=device-width, initial-scale=1">
28 <meta charset="utf-8">
29 <meta name="keywords" content="Student Course Registration Management" />
30 <!-- CSS files -->
31 <link href="css/bootstrap.css" type="text/css" rel="stylesheet" media="all">
32 <link href="css/style.css" type="text/css" rel="stylesheet" media="all">
33 </head>
34 <body>
35 <div class="container">
36 <div class="inner-banner">
37 <div class="header">
38 <div class="mu navbar-light">
39 <div class="col">
```

Cannot validate since no PHP executable is set. Use the setting 'php.validate.executablePath' to configure the PHP executable.

Source: PHP Language Features (Extension)

Open Settings

Suneth Fernando

Ln 21, Col 2 (664 selected) Spaces: 2 UTF-8 CRLF PHP