A Project Report on

Course Information Monitoring System

Submitted in partial fulfillment of requirement for the award of the degree

MASTER of COMPUTER APPLICATIONS

Of

Visvesvaraya Technological University

By

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This is to certify that the project entitled "Course Information Monitoring System" is a bonafide work carried out by Abhijith B.S. 1PI13MCA01 & Joshua Fernandes 1PI13MCA31 submitted in partial fulfillment of the requirement of Fourth semester course work of MCA during the academic session Jan-May 2015.

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Professor & Head Department of MCA PES Institute of Technology Bangalore **DECLARATION**

We **Abhijith B. S.** bearing University seat number **1PI13MCA01** and

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Semester, PESIT, hereby declare that the project entitled "Course

Information Monitoring System" has been carried out by us under the

supervision of Project Guide Lolika Padmanabhan, Assistant Professor,

Department Of MCA, PES Institute Of Technology, Bangalore is to be

submitted in partial requirements for the award of the Degree Of Master Of

Computer Applications by Visvesvaraya Technological University

during the academic year 2015. This report has been not submitted to any

other organization/university for any award or degree certificate.

Date:

Place: Bangalore

Abhijith B. S.

Date:

Place: Bangalore

Joshua Fernandes

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ABSTRACT

The Course Information Management System(CIMS) will provide the head of Department, teachers and students an online application that will allow them to track the workflow of the syllabus. It will provide teachers and students with information on how much of the course has been completed and how much is left. It will be driven by three interfaces; one for the head of the department, who will be able to keep of track of every subject and teacher and how much progression has been made. A second interface for teachers to update and keep track of how much of the syllabus is complete, and a third interface for students to check how much is completed based on which semester they are in.

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1. Introduction

1.1 Purpose

The Course Management System(CMS) is a system which integrates itself with the educational department, automating the task of monitoring the progress carried out by the faculties and staff and helps the head of the department monitor the progress and help him/her make decisions and evaluate the staff performance.

1.2 Product Perspective

The product to be developed is a first of its kind, envisioned and required by the department to help monitor the faculties' progress which was not possible manually and was unfeasible to do manually.

This product is a self-contained and can be extended further to provided new services to the department.

This SRS describes the requirements of the system as a whole and each of the services provided by the product.

It also lists the interfaces to be implemented and their inter-connections.

1.3 Product Functions

It will be driven by three interfaces;

- 1. One for the head of the department, who will be able to keep of track of every subject and teacher and how much progression has been made.
- 2. A second interface for teachers to update and keep track of how much of the syllabus is complete.
- 3. Third interface for students to check how much is completed based on which semester they are in.
- 4. It provides a facility for the faculties to publish notifications for the students, like the assignments and their deadlines.

1.4 User Classes and Characteristics

HOD- this type of user will be able to track the progress of the faculties and run queries and generate report against the DB

Faculty- This type of user will be able to add/update/edit the chapters and units completed and publish notifications for the students.

Students- This type of user will be able to see the state of the completion of the Course topics.

2. REQUIREMENTS ANALYSIS

2.1 Operating Environment

Apache Server, Linux OS, MySQL DB

2.2 Design and Implementation Constraints

- 1. GUI is only in English.
- 2. Login and password is used for the identification of users.
- 3. Only registered Faculties and HOD will be authorized to use the services to add and edit.
- 4. Any student will be able to view only.
- 5. Limited to HTTP/HTTPS.
- 6. This system works on single server.

2.3 User Documentation

The Documentation of the project and the manual will be provided with the software along with the deployment.

2.4 Assumptions and Dependencies

The project assumes that the faculties will maintain up-to-date information about the course progress that they make.

The project depends on the Apache server and the server up time to make the resource available 99.9%

3. SOFTWARE REQUIREMENTS SPECIFICATION

3.1 Users

3.1.1 Head Of the Department

Allow the hod to select faculty member that will display overall progress of the teacher with respect to every subject. In the same interface will allow them to select a semester along with the subject to keep track of specific subject. Will also include a button to refresh the database for the next semester. An additional interface for the hod will provide a view of the test portion for each semester with respect to the test number.

3.1.2 Faculty

Will present the faculty member with its overall report in the first page, along with the ability to either add a new subject, edit a subject, update current date's progress, set test portions or select particular semester/subject.

The Add new subject will allow the faculty the ability to add a subject based on semester and subject name and provide texts boxes with chapter name and number of hours.

The edit a subject will allow the faculty to edit either the number of hours or the chapter description along with feature to add more chapters or delete existing ones.

The update current date's progress will allow them to update what chapter was completed today and how many hours was taken for which semester/subject.

Set test portions will allow them to select chapter from a list of completed portions to include in a particular test.

Selecting a particular semester/subject will provide them a view of their current progress; by generating reports of how much time has passed and how much progress has been made.

3.1.3 Student

Students will be able to enter their semester and track all the subjects progress and view Test portions for the subject if available.

3.2 Functional Requirements

3.2.1 Ability for the HOD to monitor and generate reports.

The HOD will be able to keep of track of every subject and teacher and how much progression has been made. And he/she will be able to generate reports against the database which helps her in decision making and in evaluation of faculties.

3.2.2 The Faculty should be able to update progress and manipulate Course information of the subject she handles

The Faculty should be able to add Chapters and units under them and manipulate them which are reflected in the DB

3.2.3 The system should provide an interface for students to check their course progress corresponding to their Semester.

The Student enters their semester and section and should be provided with an overall view of their semester, followed by subject wise view.

3.2.4 The system provides a facility for the faculties to publish notifications for the students, like the assignments and their deadlines.

The Faculty should be able to generate notification reminders on their interface which should reflect on the students interface.

3.3 Non- Functional Requirements

3.3.1 Performance Requirements

- (1) Static numerical requirements:
 - (a) The number of terminals to be supported: 20+
 - (b) The number of simultaneous users to be supported: 20+
 - (c) Number of files and records to be handled: 10
 - (d) Sizes of tables and files: 100mb
- (2) The numbers of transactions and tasks will be 5 per second and 95% of the transactions shall be processed in less than 1 s on a normal workload conditions and the numbers of transactions and tasks will be 20 per second and 95% of the transactions shall be processed in less than 5 s on a peak workload conditions

3.3.2 Safety Requirements

Data will be transmitted with the use HTTP protocols and use inbuilt browser security measures.

3.3.3 Security Requirements

Users will be authenticated based on provided login details. Faculty members will not be able to track other faculty member's progress or view reports. Highest clearance will be provided to the hod.

3.3.4 Software Quality Attributes

Availability

Is available anywhere in campus when connected to the intranet. Will display a 404 page in case of loss of connection. No data will be lost and no commits will be made until complete transaction is made to the server.

Usability

The system is easy to handle and navigates in the most expected way with no delays. The system program reacts accordingly and transverses quickly between its states.

3.4 Software and Hardware Requirement

3.4.1 Hardware Interface

Client Side						
Processor RAM Disk Space						
Internet Explorer – 6 or above	All Intel or AMD - 1 GHZ	256 MB	100 MB			

ServerSide						
	Processor	RAM	Disk Space			
Apache Server	All Intel or AMD - 2	2GB	1 GB			
MySql	GHZ	512 MB	500MB(Excluding Data Size)			

3.4.2 Software Interfaces

Client on Internet

Web Browser, Operating System (any)

Client on Intranet

Web Browser, Operating System (any)

Web Server

Apache (WAMP, XAMP), Operating System (any)

Data Base Server

MySQL, Operating System (any)

Development End

LAMP (Linux, Apache, HTML, XML, AJAX, PHP), MySQL, OS (Windows),

3.4.3 Communications Interfaces

- 1. It uses the any Modern Web browser capable of running Java-script on client side.
- 2. It makes use of HTTP Protocol.
- 3. The system services should be accessible throughout the Local Area Network which is available to each of the faculties on their computer systems.

4. ANALYSIS AND DESIGN

4.1 Use Case

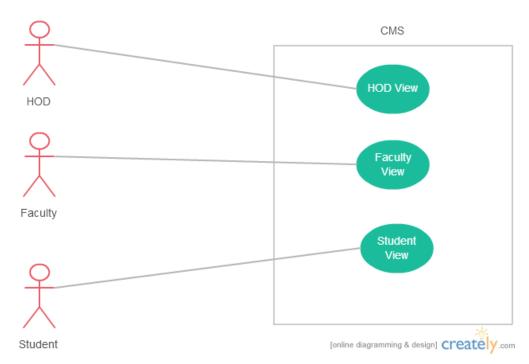


Figure 1 CMIS Use Case

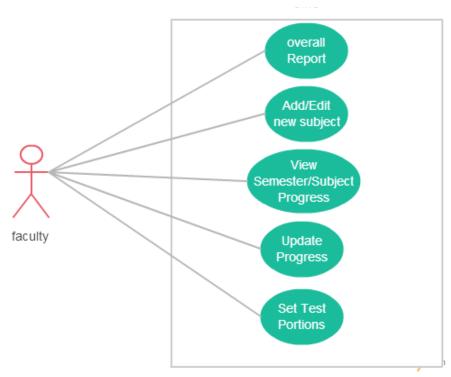


Figure 2 Faculty Use Case

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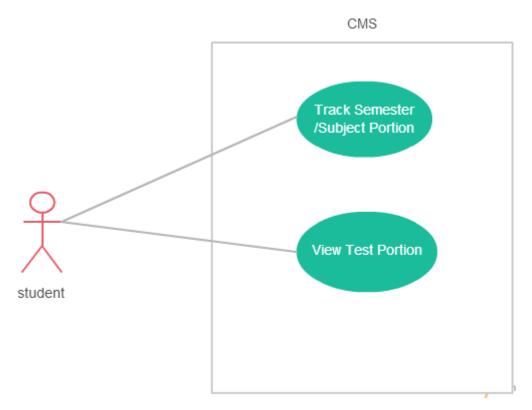
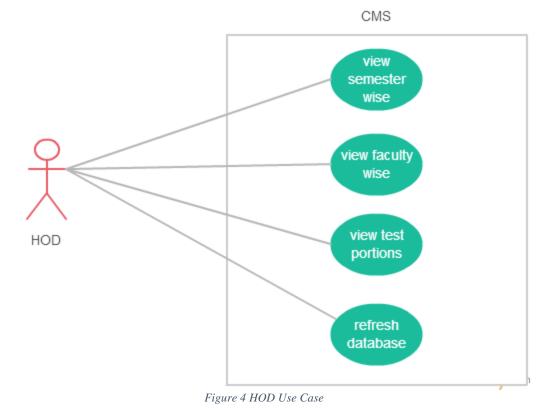


Figure 3 Student Use Case



PES IT Department of MCA

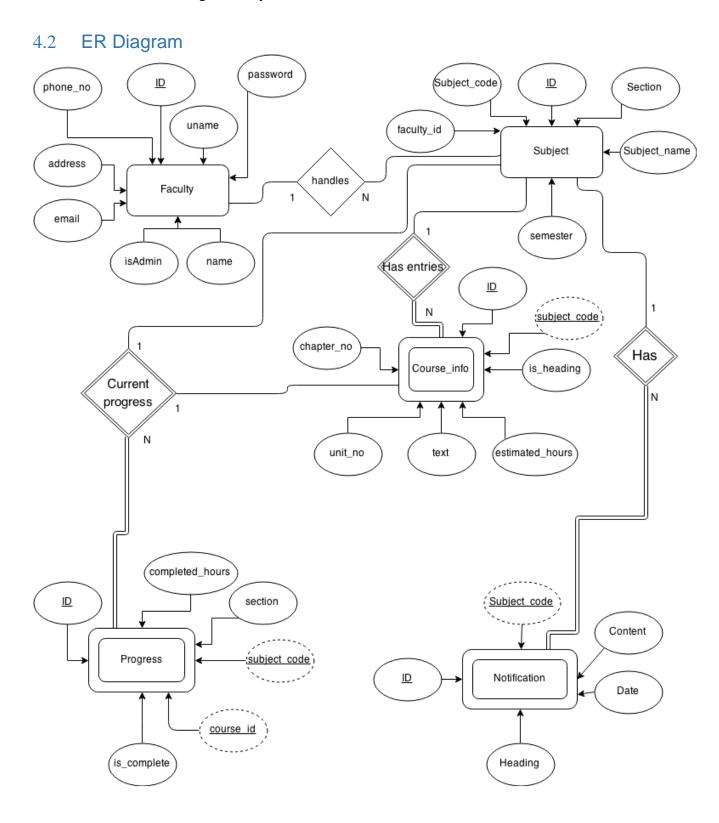


Figure 5 ER Diagram

4.3 DFD Diagram

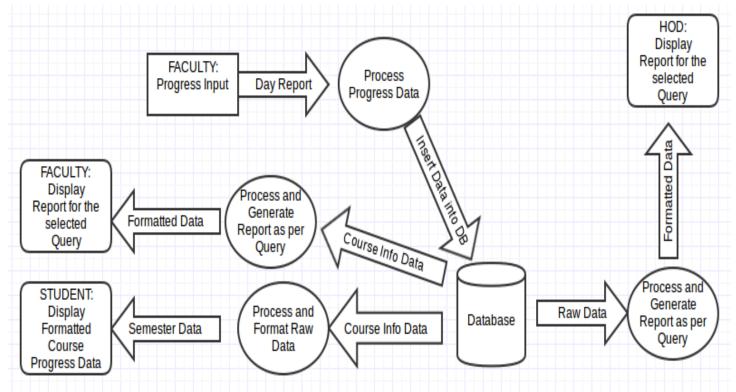


Figure 6 DFD Diagram

4.4 Data Dictionary

Course info

Name	Data type	Comment
Id	int(11)	Primary Key
chap_no	int(2)	
unit_no	int(2)	
Text	varchar(256)	
est_hrs	int(3)	
is_heading	int(1)	Bianary
sub_code	varchar(20)	

Table 1course_info data dictionary

Faculty

Name	Data type	Comment
Id	int(11)	Primary Key
Uname	varchar(30)	Unique
Pword	varchar(18)	
Name	varchar(30)	
isAdmin	int(2)	
email	varchar(50)	
address	varchar(200)	
phone_no	varchar(15)	

Table 2Faculty data dictionary

Notification

Name	Datatype	Comment
id	int(5)	Primary Key
heading	varchar(40)	
content	varchar(500)	
date	date	
subject_code	varchar(15)	

Table 3notification data dictionary

Progress

Name	Datatype	Comment
id	int(5)	Primary Key
completed_hrs	int(3)	
is_complete	int(3)	Binary
subject_code	varchar(20)	
section	varchar(3)	
course_id	int(5)	

Table 4Progress Data Dictionary

Subject

Name	Datatype	Comment
id	int(5)	Primary Key
subject_code	varchar(15)	Unique
section	varchar(4)	
subject_name	varchar(40)	
faculty_id	int(5)	
semester	int(3)	

Table 5Subject Data Dictionary

5. IMPELEMENTATION

5.1 Code

```
Connection.php
```

```
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "cms";
$conn = new mysqli($servername, $username, $password, $dbname);
?>
Login.php
session_start();
//the below code block is required as it controls which user can access the pages, please don't
remove it
if(isset($_SESSION['unames'])) //every page checks if logged in ,and if not then go to login
page, we are already in login page so no else condition
 if($ SESSION['isAdmin']==1) // if admin, then go to admin page
  header('Location: admin.php');
 if($_SESSION['isAdmin']==0) //if faculty go to faculty page
  header('Location: faculty.php');
$pluname="Enter faculty ID";
$plpassword="Enter Password";
if(isset($_POST['logs'])){
       include 'connection.php';
       //conn object is initialized in connection.php
       if ($conn->connect_error) { //Check connection
              die("Connection failed: " . $conn->connect error);
       $pluname=$_POST['uname'];
       $plpassword="";
       $sql = "SELECT name,pword,isAdmin FROM faculty where
uname="".$ POST['uname']."";
       $result = $conn->query($sql);
       if ($result->num_rows > 0) {
```

\$row = \$result->fetch_assoc();

```
//echo "id: " . $row["id"]. " - Name: " . $row["firstname"]. " " .
$row["lastname"]. "<br>";
              if($ POST['pword'] == $row["pword"])
                $ SESSION["unames"] = $ POST['uname'];
                     $_SESSION["name"]=$row["name"];
                     if($row["isAdmin"]==1)
                            $ SESSION["isAdmin"] = 1;
                            header('Location: admin.php');
                            //http_redirect("admin.php", array("uname" =>
$_POST['uname']), false, HTTP_REDIRECT_PERM);
                     else{
                            SESSION["isAdmin"] = 0;
                            header('Location: faculty.php');
                     }
              }
              else{
                     $pluname='/" value="'.$_POST['uname'].'"';
                     $plpassword="Invalid Password";
       } else {
              $pluname="Invalid Username";
$conn->close();
?>
Inserting Data
//Code to insert the notification if it was submitted by user
       if(isset($ POST['submit']) && $ POST['submit']=="Post Notification")
          if(!empty($_POST['title']) && !empty($_POST['description']) &&
!empty($_POST['subject_code'])){
         //got notification request, process it
               $sql="INSERT INTO notification(heading,content,date,subject_code)
VALUES("".$_POST['title']."","".$_POST['description']."",CURDATE(),"".$_POST['subject_c
ode']."');";
               $result=$conn->query($sql);
               if(!\$result) \{echo \"<\h2>Error...Unable to post Notification...</\h2>";\}
       //Code to delete the notification requested by user
       if(isset($_POST['delete']) && $_POST['delete']=="Delete")
```

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```
if(!empty($_POST['id'])){
         //delete the notification, process it
             $sql="DELETE FROM notification WHERE id=".$_POST['id'].";";
             if(!($conn->query($sql))) {echo "<h2>Error...Unable to delete
Notification...</h2>";}
        }
View Data
<?php
      echo '<form action="" method="GET">';
      echo '<input type=hidden name="subject_id" value="'.$subjectid."'>';
             //setting hidden data of subject id and section and code
      echo '<input type=hidden name="subject code" value="'.$subjectcode1."'>';
      echo '<input type=hidden name="section_sel" value="'.$subjectsec1."'>';
                                                                    //fetching course
information data
       $sql="select
c.id,c.chap_no,c.unit_no,c.`text`,c.est_hrs,c.is_heading,p.completed_hrs,p.is_complete from
course_info c left join subject s on c.sub_code = s.subject_code
left join progress p on p.course_id=c.id and p.section=s.section
where s.subject_code="".$subjectcode1.""
and s.section="".$subjectsec1."" ORDER BY c.chap_no,c.unit_no";
       $result = $conn->query($sql);
      while($row = $result->fetch_assoc())
       {
             if($row["is_heading"]==1)
                    echo '';
             else
                    echo '';
             echo ''.$row["chap_no"].'';
             echo ''.$row["unit no"].'';
             echo ''.$row["text"].'';
             if($row["is_heading"]==0){
                    echo ''.$row["est_hrs"].'';
                    echo '<input type=text name="".$row["id"].""
value="'.\$row["completed_hrs"].'" size=2 />';
             else
                    echo "":
```

```
if($row["is_heading"]==1)
                     echo '';
              else
                     echo '<button name="to_add_id" value="'.$row["id"].""
type="submit">Add hour</button>';
                     //echo '<input type=submit value="Add Hour"
name="add'.$row["id"].'" ';
                     echo '<button name="to_update" value="'.$row["id"].""
type="submit">Update hour</button>';
              }
              echo '';
      echo '</form>';
       ?>
Logout
<?php
 session_start(); // start current session
 session_destroy(); //destroy all session data
 header('Location: index.php');
?>
Charts
<?php
  include_once('./connection.php');
      //fetching main information
      if ($conn->connect_error) { //Check connection
              die("Connection failed: " . $conn->connect_error);
      function printPie($element)
       $subject_code=$_GET["subject_code"];
       $section=$_GET["section_sel"];
       global $conn;
       $query="select sum(c.est_hrs) as estimated,sum(p.completed_hrs) as completed
  from course_info c left join subject s on c.sub_code = s.subject_code
  left join progress p on p.course id=c.id and p.section=s.section
  where s.subject_code="".$subject_code.""
  and s.section="".$section.""
```

```
and c.is\_heading = 0;";
       $result = $conn->query($query);
       $row = $result->fetch_assoc();
       $estimated=$row["estimated"];
       $completed=$row["completed"];
       $remaining=intval($estimated)-intval($completed);
       $r=array("Remaining",$remaining,"#b7b3a3","#6b6964");
       $c=array("Completed",$completed,"#20b31c","#11720d");
  $values=array($r,$c);
         echo " <script> var pieData = [ ";
              foreach($values as $k=>$v)
                     echo "{value: "'.$v[1]."',label: "'.$v[0]."',color: "'.$v[2]."',highlight:
".$v[3]."'},";
              echo "];";
              echo " window.onload = function(){
                       var context =
document.getElementById("".$element."").getContext('2d');
                       var skillsChart = new Chart(context).Pie(pieData);
                       var title = document.getElementById('PieTitle');
                       title.innerHTML=\"Estimated hours: ".$estimated." Completed:
".$completed." Remaining: ".$remaining."\";
                       </script>";
        }
?>
```

5.2 Screen Shots

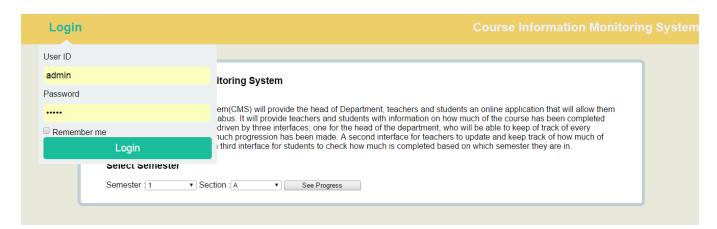


Figure 7 Login Screen Shot

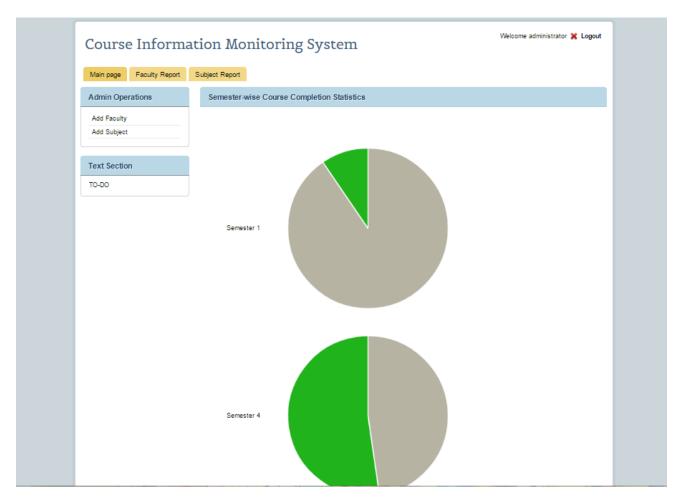


Figure 8 HOD Screen Shot

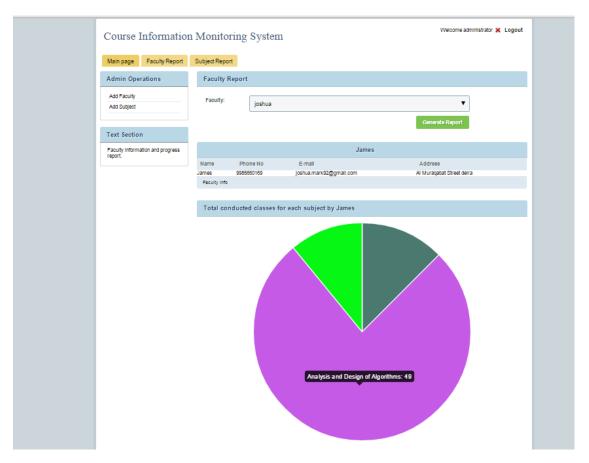


Figure 10HOD faculty report Screen Shot

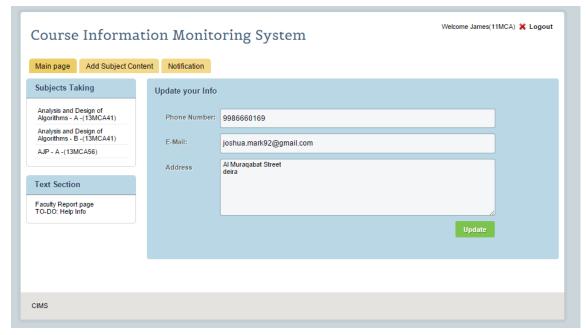


Figure 9Faculty Page Screen Shot

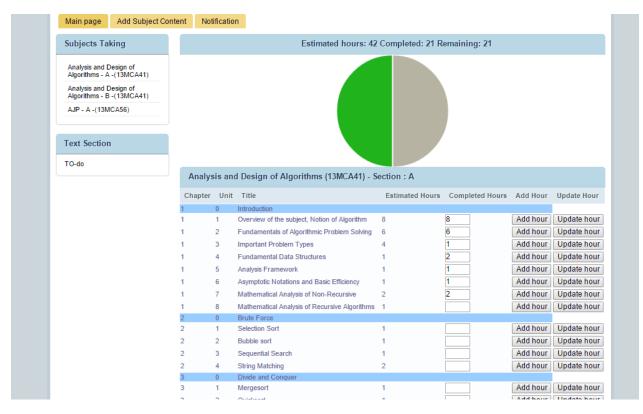


Figure 12Faculty Update Screen Sho

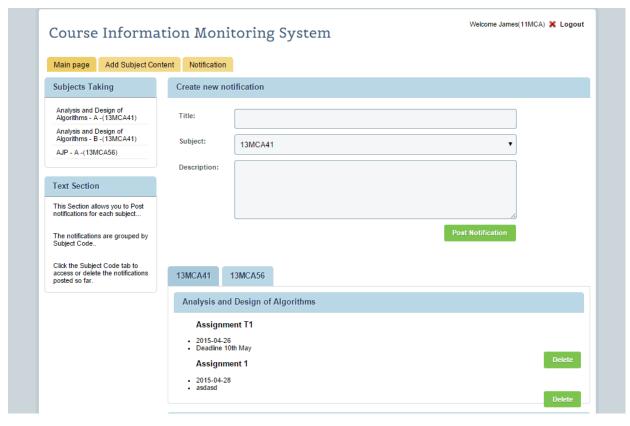


Figure 13Faculty Notification Screen Shot

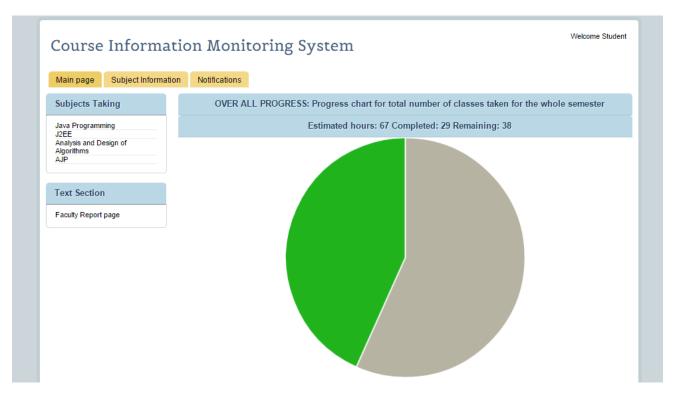


Figure 14Student Screen Shot



Figure 15Student Subject Overall Screen Shot

6. SOFTWARE TESTING

6.1 Testing Objectives:

Testing is a process of executing a program with the intent of finding an error A good test case is one that has a probability of finding an as yet undiscovered. A successful test is one that uncovers an undiscovered error.

6.2 Testing Principles:

- All tests should be traceable to end user requirements
- Tests should be planned long before testing begins
- Testing should begin on a small scale and progress towards testing in large
- Exhaustive testing is not possible

6.3 Unit testing:

Unit testing is essential for the verification of the code produced during the coding phase and hence the goal is to test the internal logic of the modules. Using the detailed design description as a guide, important paths are tested to uncover errors with in the boundary of the modules. These tests were carried out during the programming stage itself.

6.4 Integration Testing:

Integration testing focuses on unit tested modules and build the program structure that is dictated by the design phase.

6.5 System testing:

System testing tests the integration of each module in the system. It also tests to find discrepancies between the system and its original objective, current specification and system documentation. The primary concern is the compatibility of individual modules. Entire system is working properly or not will be tested here, and specified path ODBC connection will correct or not, and giving output or not are tested here these verifications and validations are done by giving input values to the system and by comparing with expected output. Top-down testing implementing here.

6.6 Test Cases:

Test cases are derived to ensure that all statements in the program have been executed at least once during testing and that all logical conditions have been executed. Using White-Box testing methods, the software engineer can drive test cases that guarantee that logical decisions on their true and false sides. Exercise all logical decisions on their true and false sides.

6.6.1 Login Page

S.NO.	Test	User Input	Expected Result	Actual Result	Status
1.		Valid	Login to user's	If admin, go to	Pass
		username	homepage	admin.php, if	
		and		faculty, go to	
		password		faculty.php	
2		Valid	Print "Incorrect	Set's placeholder	Pass
	Check login	username	Password"	of password an	
		and invalid		invalid	
		password			
3		Invalid	Print "Invalid	Sets placeholder	Pass
		username	username"	of username as	
				invalid	

6.6.2 Add Faculty Page

S.NO.	Test	User Input	Expected Result	Actual Result	Status
1.		Null name	Print "Enter a	Java alert "Enter	Pass
			name"	a name"	
2		Invalid	Prints "Invalid	Java alert "Enter	Pass
		name(special	name"	a Valid name"	
		characters)			
3		Null	Print "Enter a	Java alert "Enter	Pass
		username	user name"	a user name"	
4		Null	Print "Enter a	Java alert "Enter	Pass
	Check	Password	Password"	a Password"	
5	faculty form	Password	Print "Password	Java alert	Pass
		length less	is too short"	"Please Enter a	
	input	than 8		password with 8	
				Characters"	
6		Null repeat	Print "Enter the	Java alert "Enter	Pass
		Password	repeat	the repeat	
			Password"	Password"	
7		Repeat	Print "Passwords	Java Alert	Pass
		password	do not match"	"Passwords do	
		does not		not match"	
		match			

6.6.3 Add Subject Page

S.NO.	Test	User Input	Expected Result	Actual Result	Status
1.		Null Subject	Print "Input	Java alert "Enter	Pass
		code	subject code"	a subject code"	
2	Check	Subject code	Print "Invalid	Java alert "Enter	Pass
	Subject form	with special	subject code"	valid subject	
	input	characters		code"	
3		Null Subject	Print "Input	Java alert "Enter	Pass
		name	subject name"	a subject name"	

6.6.4 Faculty Information

S.NO.	Test	User Input	Expected Result	Actual Result	Status
1.	Check Faculty Information form input	Null Phone	Print "Input	Java alert "Enter	Pass
		number	Phone number"	your phone number"	
2		Invalid phone	Print "Invalid phone number"	Java alert "Enter valid phone	Pass
		number (characters)		number"	
3		Null e-mail	Print "Input e- mail"	Java alert "Enter your e-mail"	Pass
4		Invalid e- mail	Print "Input valid e-mail"	Java alert "Enter valid e-mail"	Pass
5		Null address	Print "Input your address"	Java alert "Enter your address"	Pass

6.6.5 Notification

S.NO.	Test	User Input	Expected Result	Actual Result	Status
1.	Check	Null Title	Print "Input	Java alert "Enter	Pass
	Notification		Title"	a title"	
2	creation form	Null	Print "Input	Java alert "Enter	Pass
	creation form	Description	Description"	a description"	

6.6.6 Add Chapters

S.NO.	Test	User Input	Expected Result	Actual Result	Status
1		Null Chapter	Print "Input	Java alert "Enter	Pass
		Title	Chapter Title"	a chapter title"	
2	Check	Null Unit	Print "Input Unit	Java alert "Enter	Pass
	Chapter	name	name''	the unit name"	
3	creation form	Non-integer	Print "Invalid	Java alert	Pass
		estimated	unit number"	"Invalid	
		hours		estimated hours"	

6.6.7 Course-info update

S.NO.	Test	User Input	Expected Result	Actual Result	Status
1		Null value	Print "Input a	Java alert "Enter	Pass
			integer	integer for	
	Check		completed	completed	
	completed		hours"	hours"	
2	hours form	Non-integer	Print "Input a	Java alert "Enter	Pass
	input	value	integer	integer for	
			completed	completed	
			hours"	hours"	

7. CONCLUSION

The foundation idea of the project was to provide a convenient and unpretentious platform for faculties and the Head of the Department to synchronize amongst them self, using an online interface to share real time information about the course progress made by the faculty. This project also helps faculty to organize their strategy for the semester, in order to complete the course's topics in time.

This project uses data mining and data visualization techniques to provide a graphical informational tool for faculties and the Head of the Department to coordinate amongst them self's.

This project "Course Information Management System" exploits the features provided by the various web technologies like, PHP v5, MySQL v5, Apache server v2 in the backend and HTML v5, Ajax and JavaScript in the front end.

This particular project deals with the problems on managing the progress of course under a department and avoids the problems which occur when carried manually. Identification of the drawbacks of the existing system leads to the designing of computerized system that will be compatible to the existing system with the system which is more user friendly, GUI oriented and provides real time data analysis from the database.

8. FUTURE ENHANCEMENTS

This project provides a base platform and an idea which can be taken forward to involve more modules to automate and digitize the tasks which are normally carried out manually.

One such module would allow the faculty to select the subjects already completed and post them as the notification which would be included in the upcoming test's portions rather than posting it on bulletin boards manually.

Another feature would be to create a module which would alert the faculty if their estimated/completed hours exceed their allotted hours and prompt the faculty to make a request to the head of the department to allocate extra hours for her particular subject.

A feature could be added to the student module to give their feedback about the faculty after the end of the semester.

In regard of data mining and visualization, more reports and visualization technique like bar, line graphs could be generated.

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