

Visvesvaraya Technological University

Jnana Sangama, Belagavi – 590018, Karnataka



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

A Report on

ONLINE LEARNING MANAGEMENT SYSTEM

In partial fulfillment of WEB TECHNOLOGY LABORATORY

[17CSL77]

in Computer Science and Engineering for the Academic Year 2020-2021

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GLOBAL ACADEMY OF TECHNOLOGY

Department of Computer Science and Engineering

(Accredited by NBA 2019-2022)

Rajarajeshwari Nagar, Bengaluru – 560 098





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Certificate

This is to certify that the project entitled "**Online Learning Management System**" is a bonafide work carried out by **Sushumna S Pradeep (1GA17CS162) and Anusha D'Souza(1GA16CS019)** as a partial fulfillment for the award of Bachelors Degree in Computer Science and Engineering for Web Technology Laboratory as prescribed by **Visvesvaraya Technological University, Belagavi** during the year 2020-2021.

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ABSTRACT

A learning management system (LMS) is a software application for the administration, documentation, tracking, reporting, automation and delivery of educational courses, training programs, or learning and development programs. The learning management system concept emerged directly from e-Learning. Although the first LMS appeared in the higher education sector, the majority of the LMSs today focus on the corporate market. Learning Management Systems make up the largest segment of the learning system market. The first introduction of the LMS was in the late 1990s.

Learning management systems were designed to identify training and learning gaps, utilizing analytical data and reporting. LMSs are focused on online learning delivery but support a range of uses, acting as a platform for online content, including courses, both asynchronous based and synchronous based. An LMS may offer classroom management for instructor-led training or a flipped classroom, used in higher education, but not in the corporate space. Modern LMSs include intelligent algorithms to make automated recommendations for courses based on a user's skill profile as well as extract meta-data from learning materials in order to make such recommendations even more accurate.

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INTRODUCTION

Online learning management system, is a software that is designed specifically to create, distribute, and manage the delivery of educational content. The OLMS can be hosted as a stand-alone product on the company server, or it can be a cloud-based platform that is hosted by the software firm. A learning management system is a software application for the administration, documentation, tracking, reporting, automation and delivery of educational courses, training programs, or learning and development programs. The learning management system concept emerged directly from e-Learning.

1.1 Need of Online Learning Management System

Cost savings: Training and teaching via an LMS reduces employee travel, optimizes training expenditure and usage, and minimizes facilities and instructors to pay. From the cost savings aspect, an LMS is a no-brainer.

Consistency of training: Training and course delivery via an LMS is consistent since it is centralized. It delivers a consistent training and learning quality to all employees by supplying a single source for content, course materials and instructions.

Easily tracks learner progress and performance: LMSs allow the company to easily generate training reports on an overall or user/student level basis. By utilizing an LMS for eLearning courses and/or online training, trainers can easily track goal progress, knowledge gains, ROI and more.

Meet regulatory compliance: Many industries may be required to train, assess and report for compliance purposes. Just a few of these industries are oil and gas, pharmaceuticals, communications, and building and construction. An LMS can help you satisfy these legal and regulatory requirements.

CHAPTER 2**REQUIREMENT SPECIFICATION**

A high-level requirements specification is required. The purpose of requirements analysis is to identify requirements for the proposed system. The emphasis is on the discovery of user requirements.

2.1 SOFTWARE REQUIREMENTS

Operating System : Windows 10 or any compatible operating system.

Database : MySQL

Tools : WAMP Server

2.2 HARDWARE REQUIREMENTS

Processor : Any Processor above 500 MHz

RAM : 4GB

Hard Disk : 2 GB free space

Input device : Keyboard, Mouse

Output device : Monitor

System type : 32-bit or 64-bit operating system

2.3 FUNCTIONAL REQUIREMENTS

Functional requirements are those requirements that are used to illustrate the internal working nature of the system, the description of the system, and explanation of each subsystem. It consists of what task the system should perform, the processes involved, which data should the system holds and the interfaces with the user. The functional requirements identified are:

- **Home page:** Home page is the first page of the website. Home page contains the Login page. In this registered users can login to the site by entering Login ID and Password.

- **Customer's registration:** The system should allow new users to register online and generate membership card.
- **Online Learning :** Students should be able to use the system to make booking and online reservation.
- **Automatic update to database once reservation is made or new customer registered:** Whenever there's new reservation or new registration, the system should be able update the database without any additional efforts from the admin.

2.4 NON FUNCTIONAL REQUIREMENTS

It describes aspects of the system that are concerned with how the system provides the non-functional requirements. They are

Security: The subsystem should provide a high level of security and integrity of the data held by the system, only authorized personnel of the company can gain access to the company's secured page on the system; and only users with valid password and username can login to view user's page.

- Performance and Response time: The system should have high performance rate when executing user's input and should be able to provide feedback or response within a short time span usually 50 seconds for highly complicated task and 20 to 25 seconds for less complicated task.
- Error handling: Error should be considerably minimized and an appropriate error message that guides the user to recover from an error should be provided. Validation of user's input is highly essential. Also the standard time taken to recover from an error should be 15 to 20 seconds.
- Availability: This system should always be available for access at 24 hours, 7 days a week. Also in the occurrence of any major system malfunctioning, the system should be available in 1 to 2 working days, so that the business process is not severely affected.
- Ease of use: Considered the level of knowledge possessed by the users of this system, a simple but quality user interface should be developed to make it easy to understand and required less training.

CHAPTER 3

OBJECTIVE OF THE PROJECT

A Learning Management System has been beautifully crafted to perfection with many effective objectives to make learning, organizing, reporting and administration a fruitful process.

□ Streamline Training Process

The employee training process becomes much easier with an LMS to streamline learning. All learning content is housed in one location. Employees have one place to access important resources quickly. No more clicking between different applications, emails, or company resources in a web of SharePoint sites.

□ Engage Employees

These days, the modern learner is more distracted than ever before and companies are paying the price. LMS software provides employees with a blended learning experience for well-rounded, engaging training. Educational content is presented in a variety of forms: written, audio, videos, etc. to support learning objectives.

□ Track, Assess, and Report

An LMS makes it easy for employers and supervisors to track employees' progress, too. They can check-in to see how well people are doing and whether or not they're keeping up with the required tasks. Employers and supervisors can also use the LMS to check for gaps in understanding and find out if employees need to review any principles to get a better grasp on them.

□ Reduce Costs

Every business is looking for ways to save money, right? Investing in an LMS can help conserve cash in a major way. Learning management systems save companies the cost of paying a trainer to travel and teach new material to their employees.

Thereby, removing the overhead (i.e., training costs, boarding, lodging, etc.).

Simply set up the LMS and let the employees get to work.

□ Improve Efficiency

Learning management systems provide a more efficient way to train. It's often more efficient to let employees train at their own pace and ask questions as needed.

Now, there is a time and a place for instructor-led training. The

SYSTEM DESIGN

4.1 FLOW OF WEB PAGES

A use case diagram at its simplest is a representation of a user's interaction with the system that shows the relationship between the user and the different use cases in which the user is involved. Figure 4.1 below shows the use case diagram for this website.

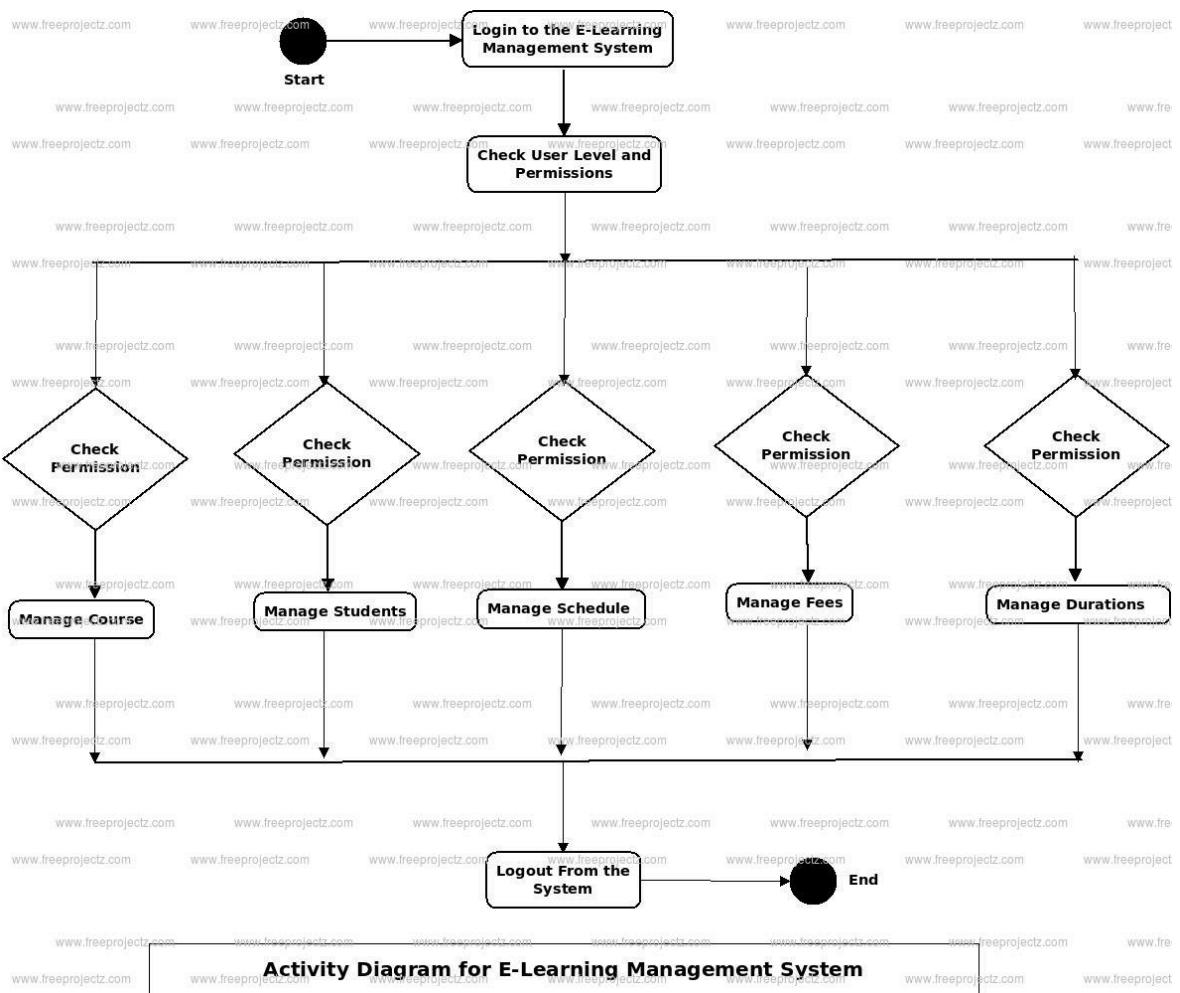


Figure 4.1: Flow Of Web Pages

The entity-relationship data model is based on a perception of a real world that consists of a collection of basic objects called entities and of relationships among these objects. An entity is an “object” in the real world that is distinguishable from other objects. For e.g. each customer is an entity and rooms can be considered to be entities. Entities are described by a set of attributes. Figure 4.2 Shows the Entity Relationship between the tables.

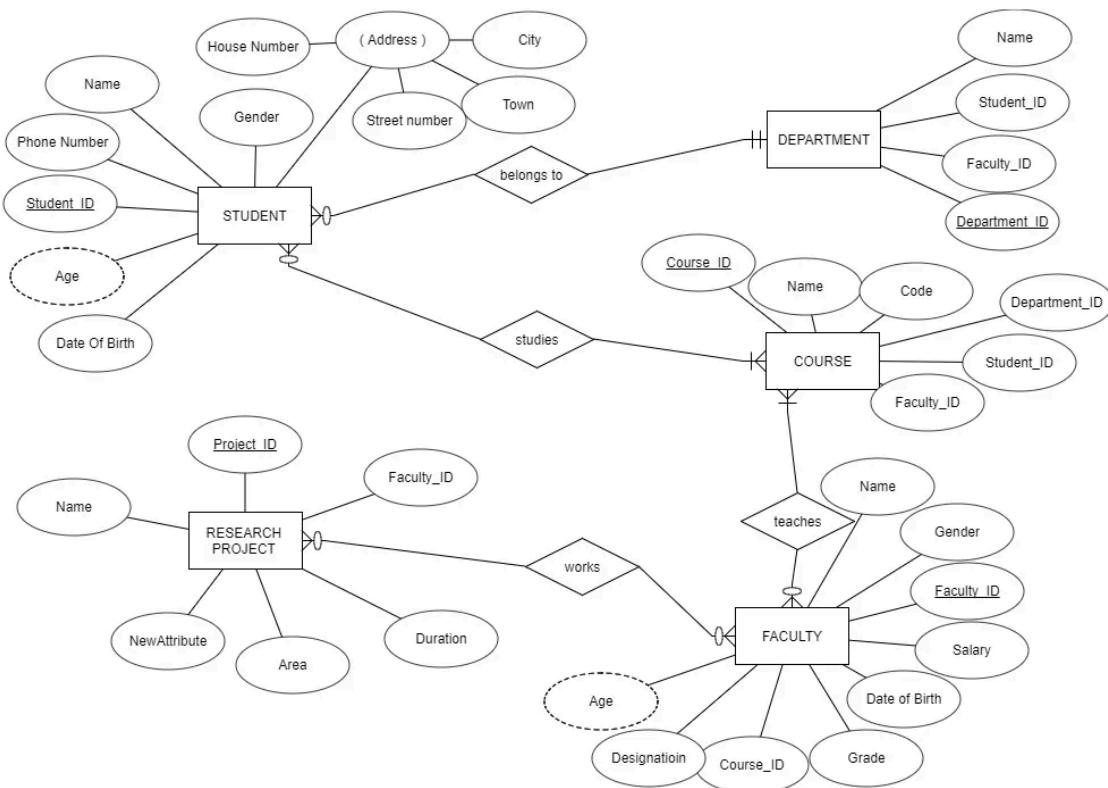


Figure 4.2: Entity Relationship Diagram

IMPLEMENTATION

5.1 SOURCE CODE

Index Page

```
<?php include('header.php'); ?>
<style>
    body#login::before {
        content: "";
        background: #00000036;
        position: absolute;
        top: 0;
        /* z-index: 1; */
        left: 0;
        width: 100%;
        height: 100%;
    }
</style>

<!--box zooming-->
<style>
    * {
        box-sizing: border-box;
    }

    .zoom {
        padding: 50px;
        background-color:#FCC;
        transition: transform .2s;
        width: 250px;
        height: 250px;
        margin: 0 auto;
        text-align:center;
    }

    .zoom:hover {
        -ms-transform: scale(1.5); /* IE 9 */
        -webkit-transform: scale(1.5); /* Safari 3-8 */
    }
</style>
```

```
        transform: scale(1.5);
    }
</style>

<!--flip-box code-->
<style>
body {
    font-family: Arial, Helvetica, sans-serif;
}

.flip-box {
    background-color: transparent;
    width: 300px;
    height: 200px;
    border: 1px solid #f1f1f1;
    perspective: 1000px;
}

.flip-box-inner {
    position: relative;
    width: 100%;
    height: 100%;
    text-align: center;
    transition: transform 0.8s;
    transform-style: preserve-3d;
}

.flip-box:hover .flip-box-inner {
    transform: rotateY(180deg);
}

.flip-box-front, .flip-box-back {
    position: absolute;
    width: 100%;
    height: 100%;
    backface-visibility: hidden;
}

.flip-box-front {
    background-color: #bbb;
    color: black;
}
```

```
.flip-box-back {  
    background-color: dodgerblue;  
    color: white;  
    transform: rotateY(180deg);  
}  
</style>
```

```
<style>
```

```
body {  
    font-family: Arial;  
    margin: 0;  
}
```

```
* {  
    box-sizing: border-box;  
}
```

```
img {  
    vertical-align: middle;  
}
```

```
/* Position the image container (needed to position the left and right arrows) */
```

```
.container {  
    position: relative;  
}
```

```
/* Hide the images by default */
```

```
.mySlides {  
    display: none;  
}
```

```
/* Add a pointer when hovering over the thumbnail images */
```

```
.cursor {  
    cursor: pointer;  
}
```

```
/* Next & previous buttons */
```

```
.prev,  
.next {  
    cursor: pointer;  
    position: absolute;  
    top: 40%;
```

```
width: auto;  
padding: 16px;  
margin-top: -50px;  
color: white;  
font-weight: bold;  
font-size: 20px;  
border-radius: 0 3px 3px 0;  
user-select: none;  
-webkit-user-select: none;  
}
```

```
/* Position the "next button" to the right */  
.next {  
right: 0;  
border-radius: 3px 0 0 3px;  
}
```

```
/* On hover, add a black background color with a little bit see-through */  
.prev:hover,  
.next:hover {  
background-color: rgba(0, 0, 0, 0.8);  
}
```

```
/* Number text (1/3 etc) */  
.numbertext {  
color: #f2f2f2;  
font-size: 12px;  
padding: 8px 12px;  
position: absolute;  
top: 0;  
}
```

```
/* Container for image text */  
.caption-container {  
text-align: center;  
background-color: #222;  
padding: 2px 16px;  
color: white;  
}
```

```
.row:after {  
content: "";  
display: table;  
}
```

```
clear: both;  
}  
  
/* Six columns side by side */  
.column {  
    float: left;  
    width: 16.66%;  
}  
  
/* Add a transparency effect for thumbnail images */  
.demo {  
    opacity: 0.6;  
}  
  
.active,  
.demo:hover {  
    opacity: 1;  
}  
</style>
```

```
<!--blink code-->  
<style>  
.blink {  
    animation: blinker 1.5s linear infinite;  
    color: #1c87c9;  
    font-size: 30px;  
    font-weight: bold;  
    font-family: sans-serif;  
}  
@keyframes blinker {  
    50% { opacity: 0; }  
}  
.blink-one {  
    animation: blinker-one 1s linear infinite;  
}  
@keyframes blinker-one {  
    0% { opacity: 0; }  
}  
.blink-two {  
    animation: blinker-two 1.4s linear infinite;  
}
```

```
@keyframes blinker-two {  
    100% { opacity: 1; }  
}  
</style>  
  
<body id="login">  
    <div class="container" style="position: relative">  
        <div class="row-fluid">  
            <div class="span6"><div class="title_index"><?php  
include('title_index.php'); ?></div></div>  
            <div class="span6"><div class="pull-right"><?php  
include('login_form.php'); ?></div></div>  
        </div>  
        <div class="row-fluid">  
            <div class="span12"><div class="index-footer"><?php  
include('link.php'); ?></div></div>  
        </div>  
  
        <p class="blink" style="color:#F03" align="center">Achieve your goals with  
Techademics</p>  
  
        <div class="container">  
            <div class="mySlides">  
                <div class="numbertext">1 / 6</div>  
                  
            </div>  
  
            <div class="mySlides">  
                <div class="numbertext">2 / 6</div>  
                  
            </div>  
  
            <div class="mySlides">  
                <div class="numbertext">3 / 6</div>  
                  
            </div>  
  
            <div class="mySlides">  
                <div class="numbertext">4 / 6</div>  
                  
            </div>  
  
            <div class="mySlides">  
        <hr/>
```

```
<div class="numbertext">5 / 6</div>

</div>

<div class="mySlides">
<div class="numbertext">6 / 6</div>

</div>

<a class="prev" onClick="plusSlides(-1)"><</a>
<a class="next" onClick="plusSlides(1)">>></a>

<div class="caption-container">
<p id="caption"></p>
</div>

<div class="row">
<div class="column">

onClick="currentSlide(1)" alt="Machine Learning">
</div>
<div class="column">

onClick="currentSlide(2)" alt="Artificial Intelligence">
</div>
<div class="column">

onClick="currentSlide(3)" alt="Cyber Security">
</div>
<div class="column">

onClick="currentSlide(4)" alt="Deep Learning">
</div>
<div class="column">

onClick="currentSlide(5)" alt="Block Chain">
</div>
<div class="column">

onClick="currentSlide(6)" alt="Web Development">
</div>
</div>
</div>
```



```
<script>
var slideIndex = 1;
showSlides(slideIndex);

function plusSlides(n) {
    showSlides(slideIndex += n);
}

function currentSlide(n) {
    showSlides(slideIndex = n);
}

function showSlides(n) {
    var i;
    var slides = document.getElementsByClassName("mySlides");
    var dots = document.getElementsByClassName("demo");
    var captionText = document.getElementById("caption");
    if (n > slides.length) {slideIndex = 1}
    if (n < 1) {slideIndex = slides.length}
    for (i = 0; i < slides.length; i++) {
        slides[i].style.display = "none";
    }
    for (i = 0; i < dots.length; i++) {
        dots[i].className = dots[i].className.replace(" active", "");
    }
    slides[slideIndex-1].style.display = "block";
    dots[slideIndex-1].className += " active";
    captionText.innerHTML = dots[slideIndex-1].alt;
}
</script>
<?php include('footer.php'); ?>
</div>
<?php include('script.php'); ?>
</body>
</html>
```

Login Page

```
<!DOCTYPE HTML>
```

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

```
<head>
```

```
Dept. of CSE, GAT
```

```

<form id="login_form1" class="form-signin" method="post">
    <h3 class="form-signin-heading"><i
        class="icon-lock"></i> Sign in</h3>
        <input type="text" class="input-block-level"
            id="username" name="username" placeholder="Username" required>
        <input type="password"
            class="input-block-level" id="password" name="password" placeholder="Password"
            required>
        <button data-placement="right" title="Click
Here to Sign In" id="signin" name="login" class="btn btn-info" type="submit"><i
            class="icon-signin icon-large"></i> Sign in</button>

        <script type="text/javascript">
$(document).ready(function() {
    $('#signin').tooltip('show');
    $('#signin').tooltip('hide');
});

        </script>
    </form>
        <script>
jQuery(document).ready(function(){
    jQuery("#login_form1").submit(function(e){
        e.preventDefault();
        var formData =
            jQuery(this).serialize();
        $.ajax({
            type: "POST",
            url: "login.php",
            data: formData,
            success:
                function(html){
                    if(html=='true')
                    {
                        $jGrowl("Loading File
Please Wait..... ", { sticky: true });
                    }
                    else
                    {
                        $jGrowl("Welcome to
Techademics", { header: 'Access Granted' });
                    }
                }
        });
        var delay = 1000;
    });
});
        </script>

```

```

setTimeout(function() { window.location = 'dasboard_teacher.php' }, delay);
} else if (html ==
'true_student'){

$.jGrowl("Welcome to Techademics", { header: 'Access Granted' });
var delay = 1000;

setTimeout(function() { window.location = 'student_notification.php' }, delay);
} else
{
$.jGrowl("Please
Check your username and Password", { header: 'Login Failed' });
}
}

});

return false;
});

});

</script>

<div id="button_form" class="form-signin" >
New to Techademics
<hr>
<h3 class="form-signin-heading"><i class="icon-edit"></i>
Sign up</h3>
<button data-placement="top" title="Sign In as Student"
id="signin_student" onclick="window.location='signup_student.php'" id="btn_student"
name="login" class="btn btn-info" type="submit">I'm a Student</button>
<div class="pull-right">
<button data-placement="top" title="Sign In as
Teacher" id="signin_teacher" onclick="window.location='signup_teacher.php'"
name="login" class="btn btn-info" type="submit">I'm a Teacher</button>
</div>
</div>

<script type="text/javascript">

$(document).ready(function(){

$('#signin_student').tooltip('show');
$('#signin_student').tooltip('hide');

});

```

```

</script>

<script type="text/javascript">

$(document).ready(function(){

    $('#signin_teacher').tooltip('show');
    $('#signin_teacher').tooltip('hide');

});

</script>

```

```

<<!--Footer -->
<div class="pull-right">
    <footer>
        <p>Programmed by: Anusha & Sushumna</p>
    <footer>
</div>
<!-- /Footer-->

```

Admin index page Code

```

<?php include('header.php'); ?>
<body id="login">
<div class="container">

    <form id="login_form" class="form-signin" method="post">
        <h3 class="form-signin-heading"><i class="icon-lock"></i> Please Login</h3>
        <input type="text" class="input-block-level" id="usernmae" name="username"
placeholder="Username" required>
        <input type="password" class="input-block-level" id="password" name="password"
placeholder="Password" required>
        <button name="login" class="btn btn-info" type="submit"><i class="icon-signin
icon-></i> Sign in</button>

    </form>
    <script>
        jQuery(document).ready(function(){
            jQuery("#login_form").submit(function(e){
                e.preventDefault();
                var formData = jQuery(this).serialize();

```

```
$.ajax({
    type: "POST",
    url: "login.php",
    data: formData,
    success: function(html){
        if(html=='true')
        {
            $jGrowl("Welcome to Techademics", {
                header: 'Access Granted' });
        }
        else
        {
            $jGrowl("Please Check your username and
                    Password", { header: 'Login Failed' });
        }
    }
});

return false;
});
});
</script>

</div><!-- /container -->
<?php include('script.php'); ?>
</body>
</html>
```

Student Dashboard Page Code

```
<?php include('header_dashboard.php'); ?>

<?php include('session.php'); ?>

<body>

<?php include('navbar_student.php'); ?>

<div class="container-fluid">

<div class="row-fluid">

<?php include('student_sidebar.php'); ?>

<div class="span9" id="content">

<div class="row-fluid">

<!-- breadcrumb -->

<ul class="breadcrumb">

<?php

$school_year_query = mysqli_query($conn, "select *
from school_year order by school_year DESC") or die(mysqli_error());

$school_year_query_row =
mysqli_fetch_array($school_year_query);

$school_year =
$school_year_query_row['school_year'];

?>
```

My Class/

School Year: <?php echo \$school_year_query_row['school_year']; ?>

<!-- end breadcrumb -->

<!-- block -->

<div class="block">

<div class="navbar navbar-inner block-header">

<div id="" class="muted pull-right">

<?php \$query =

mysqli_query(\$conn,"select * from teacher_class_student

LEFT JOIN teacher_class ON teacher_class.teacher_class_id =
teacher_class_student.teacher_class_id

LEFT JOIN class ON class.class_id = teacher_class.class_id

LEFT JOIN subject ON subject.subject_id = teacher_class.subject_id

LEFT JOIN teacher ON teacher.teacher_id = teacher_class.teacher_id

where student_id = '\$session_id' and school_year = '\$school_year'

```
    ")or die(mysqli_error());  
  
    $count = mysqli_num_rows($query);  
  
    ?>  
  
    <span  
    class="badge badge-info"><?php echo $count; ?></span>  
  
    </div>  
  
    </div>  
  
    <div class="block-content collapse in">  
  
        <div class="span12">  
  
            <ul  
            id="da-thumbs" class="da-thumbs">  
  
                <?php  
  
                if ($count != '0') {  
  
                    while($row = mysqli_fetch_array($query)) {  
  
                        $id = $row['teacher_class_id'];  
  
                        ?>  
  
                        <li>
```

<a

href="my_classmates.php<?php echo '?id='.\$id; ?>">

<img src ="<?php echo \$row['thumbnails'] ?>" width="124" height="140"
class="img-polaroid">

<div>

<p><?php echo \$row['class_name']; ?></p>

</div>

<p

class="class"><?php echo \$row['class_name']; ?></p>

<p

class="subject"><?php echo \$row['subject_code']; ?></p>

<p

class="subject"><?php echo \$row['firstname']. " ".\$row['lastname']?></p>


```
<?php } }else{ ?>
<div class="alert alert-info"><i
class="icon-info-sign"></i> You are currently not enroll to your class</div>
<?php } ?>
</ul>

</div>

</div>

</div>

<!-- /block -->
</div>

</div>

</div>

<?php include('footer.php'); ?>
</div>
<?php include('script.php'); ?>
</body>
</html>
```

TESTING

This chapter gives the outline of the testing methods that are carried out to get a bug free system. Quality can be achieved by testing the product using different techniques at different phases of the project development. The purpose of testing is to discover errors. Testing is the process of trying to discover every conceivable fault or weakness in a work product. It provides a way to check the functionality of components sub assemblies and/or a finished product. It is the process of exercising software with the intent of ensuring that the Software system meets its requirements and user expectations and does not fail in an unacceptable manner. There are various types of test. Each test type addresses a specific testing requirement.

6.1 TESTING PROCESS

Testing is an integral part of software development. Testing process certifies whether the product that is developed compiles with the standards that it was designed to. Testing process involves building of test cases against which the product has to be tested.

6.2 TESTING OBJECTIVES

The main objectives of testing process are as follows.

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

Table 5.1: Test cases

S.NO	CASE	INPUT	EXPECTED OUTPUT	ACTUAL OUTPUT
1	Registration	Blank Field	Please fill out the fields	Please fill out the fields
2	User Login	Username and password	User Home page	User Home page
3	User Login	Wrong Username or password	Login unsuccessful	Login unsuccessful
4	Admin Login	Username and password	Admin Dashboard	Admin Dashboard

RESULTS

This section describes the screens of the “Online Learning Website”.

The snapshots are shown below for each module.

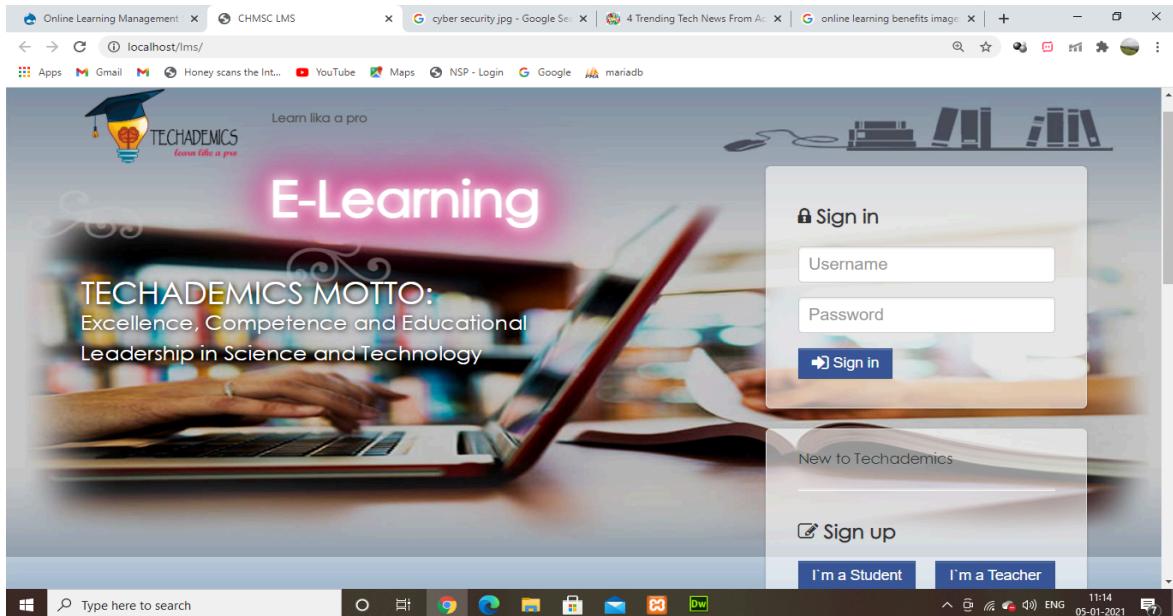


Figure 7.1: Home page

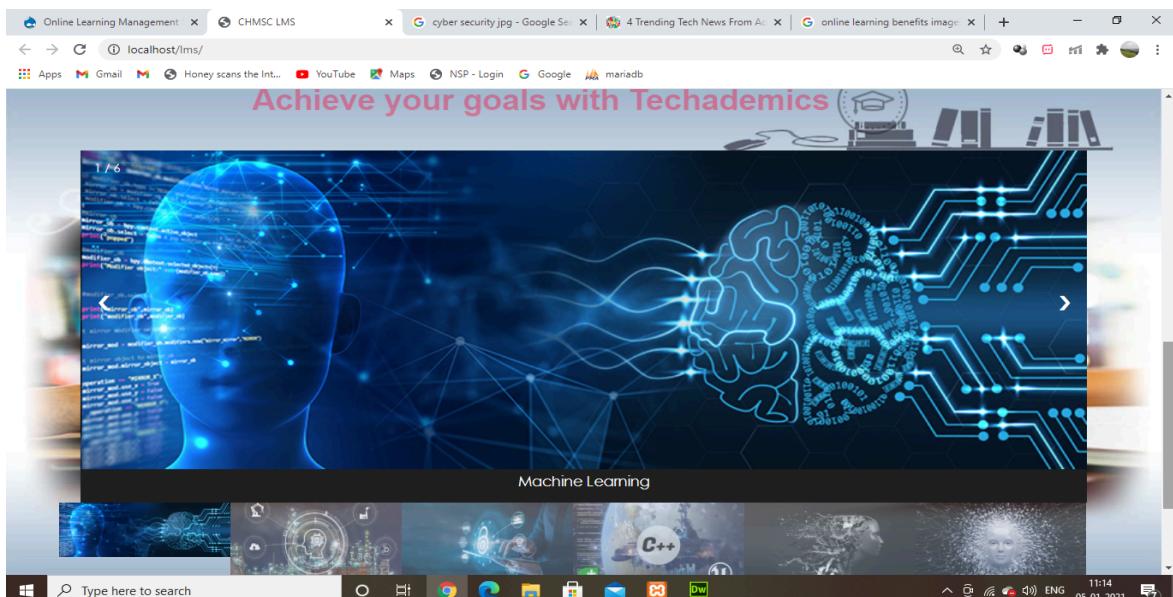


Figure 7.2: Trending Technology page

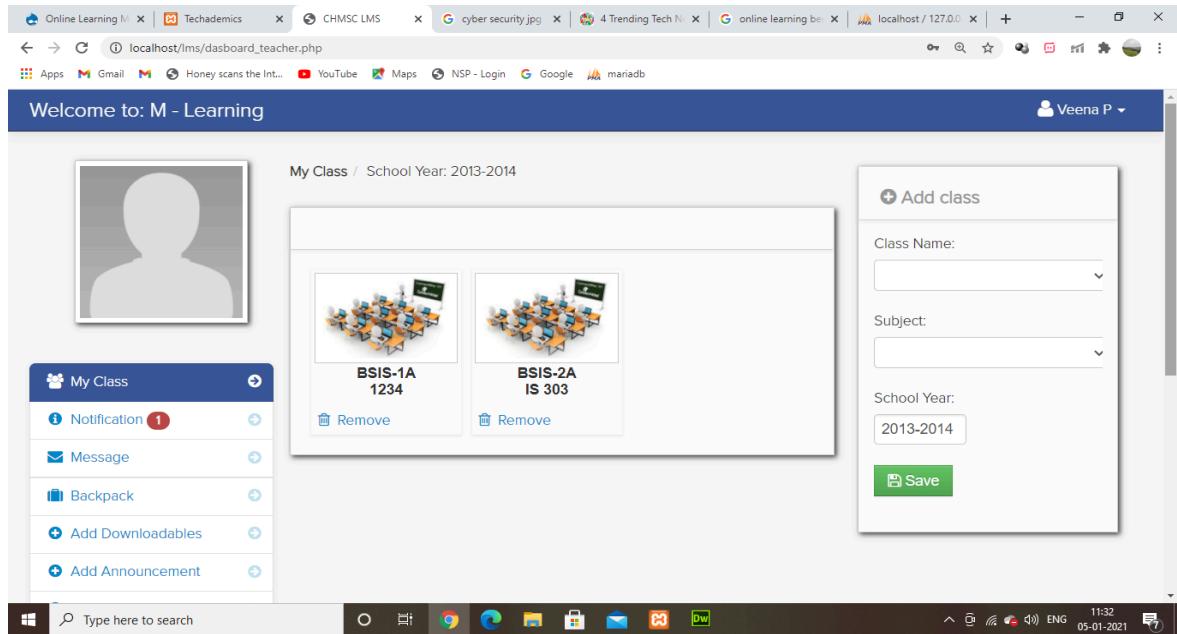


Figure 7.3: Teacher dashboard

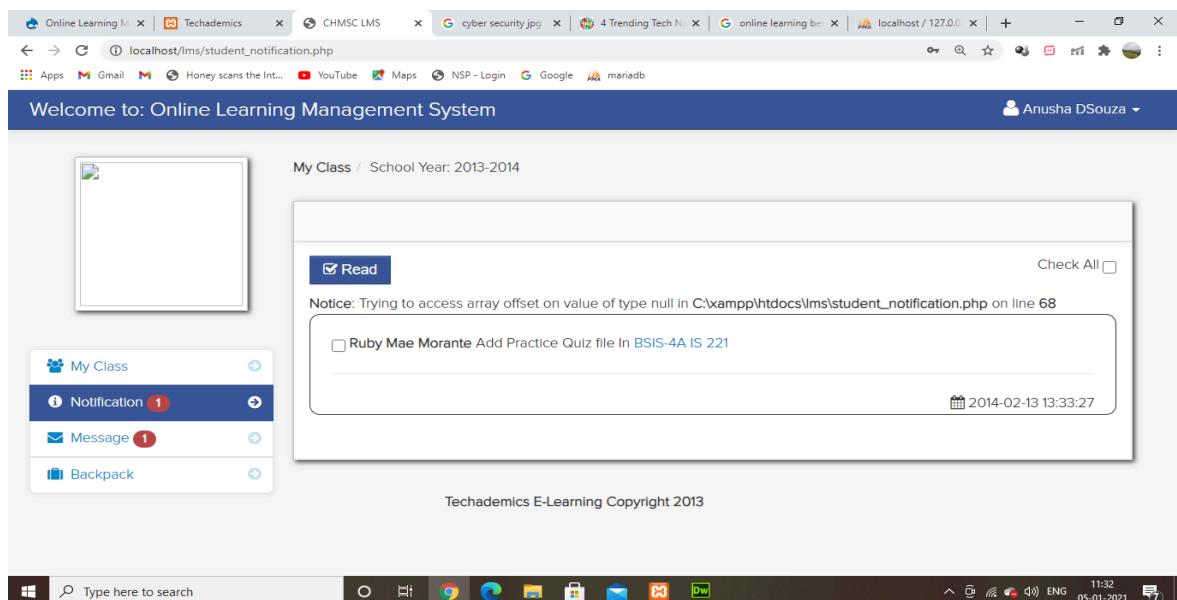


Figure 7.4: Student dashboard

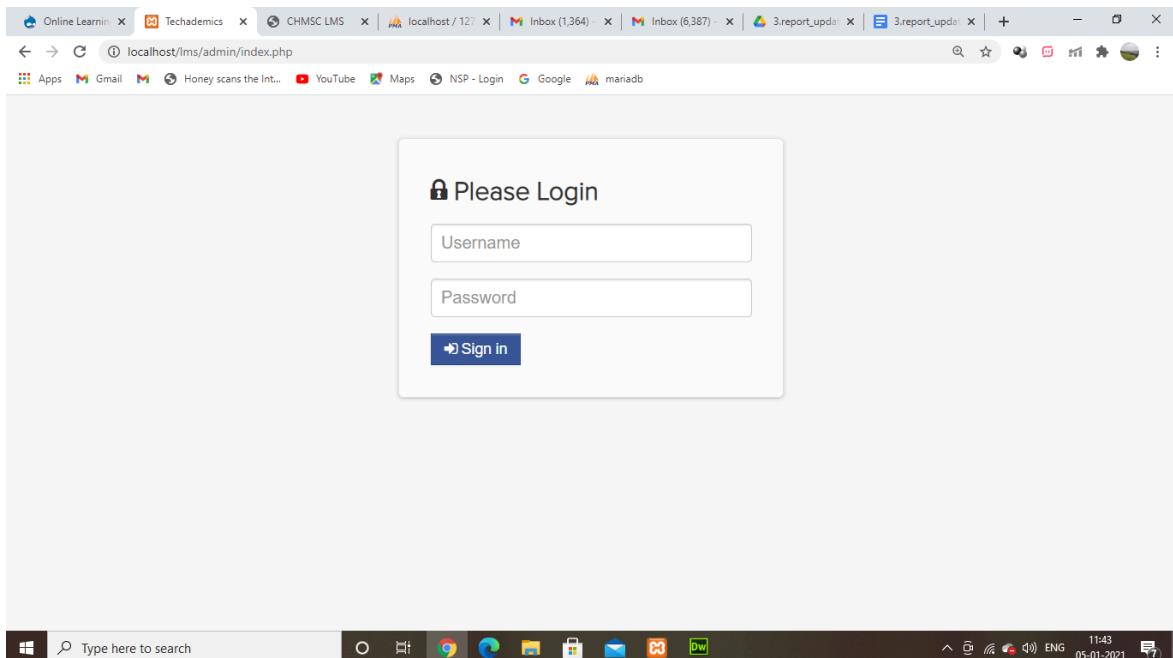


Figure 7.5: Admin login page

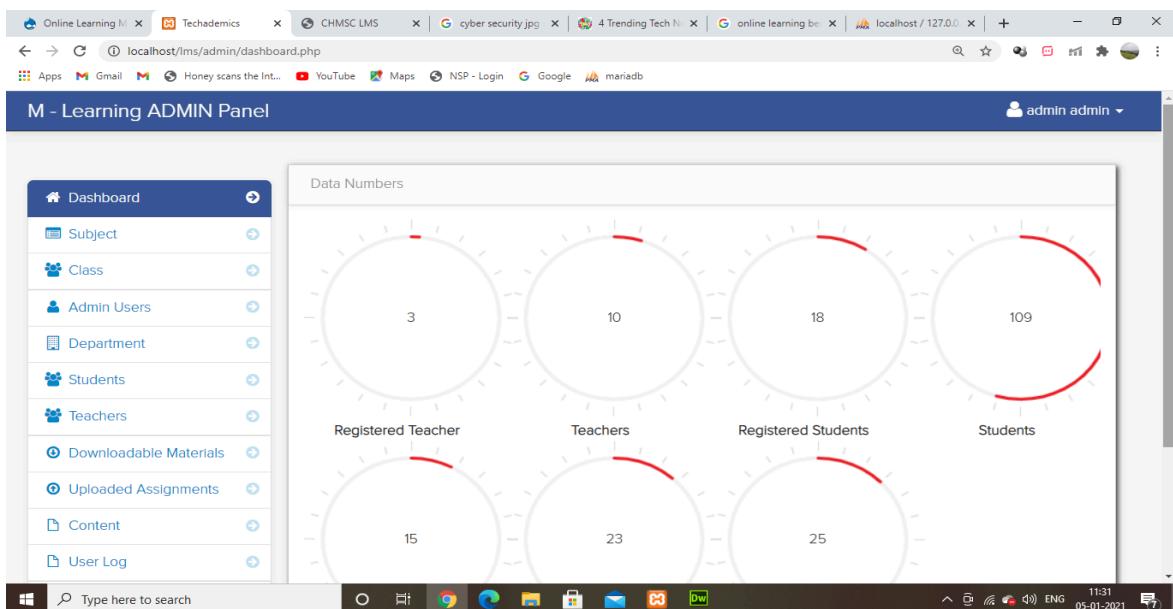


Figure 7.6: Admin Dashboard Page

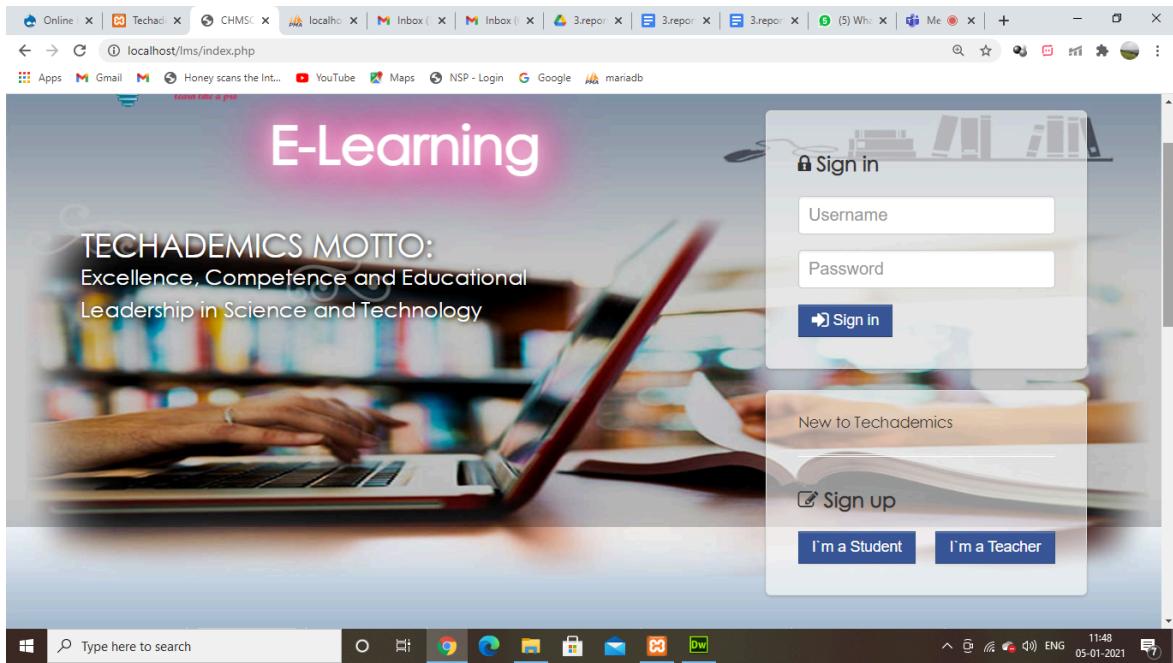


Figure 7.7: Student and Teacher login page

CONCLUSION

Whatever elearning demands, an LMS is there to deliver. Without it, the online world would be a giant textbook full of unorganized knowledge – there would be little order to our studying efforts, and even less methodology to help us receive, understand, and retain information. Learning would still be possible, of course, but not in an effective, systematic manner that LMS provide.

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