# Department of Computing

**CS344: Web Engineering**

**Class: BESE – 13AB**

# Lab 10: Dynamic Web Development Using PHP

**Date: 21 Nov 2024**

# Time: 09:00 AM – 11:50PM/ 02:00 PM – 04:50 PM

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# Lab 10: Attendance Recorder

## Description

In this lab, you have to design and implement an application to maintain attendance for students at NUST. This application has two primary use cases:

1. Teachers can take attendance
2. Students can look up their attendance

In both cases there should be one master view for your application which all the pages will inherit. The application should authenticate the user first and based on their roles should open up their page only. Once authenticated, the teachers should be shown a view with the current attendance session and a list of all previous and upcoming sessions. The teacher should be able to mark attendance in any session for any student. The students should be able to view all of their attendance, only. In case any of their attendance is below 75%, it should be bolded and shown in red. In case the attendance is below 85%, it should be shown in yellow. Otherwise you can show the attendance in green.

You can use the following skeleton mysql db structure for recording and fetching records from the database.

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-- Table structure for table `attendance`

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CREATE TABLE IF NOT EXISTS `attendance` (

`classid` int(50) NOT NULL,

`studentid` int(50) NOT NULL,

`isPresent` tinyint(1) NOT NULL,

`comments` varchar(200) NOT NULL

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

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-- Table structure for table `class`

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CREATE TABLE IF NOT EXISTS `class` (

`id` int(50) NOT NULL,

`teacherid` int(50) NOT NULL,

`starttime` time NOT NULL,

`endtime` time NOT NULL,

`credit\_hours` int(11) NOT NULL,

PRIMARY KEY (`id`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1;

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-- Table structure for table `user`

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CREATE TABLE IF NOT EXISTS `user` (

`id` int(50) NOT NULL AUTO\_INCREMENT,

`fullname` varchar(200) NOT NULL,

`email` varchar(200) NOT NULL,

`class` varchar(10) NOT NULL,

`role` enum('teacher','student','admin') NOT NULL,

PRIMARY KEY (`id`)

) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO\_INCREMENT=1 ;

## Objectives

* Implement the attendance recorder application
* Authenticate the user
* Allow the teacher to view all previous, next and the current session.
* Allow the teacher to mark the attendance in any session.
* Allow the student to view all of his attendance, only
* Color code the attendance.
* Show a nice interface to the user, with a single master view.

## Tools/Software Requirement

* Solutions should be made using HTML5, CSS3, JavaScript, Laravel and MySQL

## Pitfalls

* Any exceptions or errors leading to non-execution of submitted code.
* Failure to upload the solution on LMS.

## Description

1. **attendence -> index.blade.php**

**Purpose**:

This file serves as the view template for displaying attendance details in the admin panel of the attendance management system. It provides a user-friendly interface for administrators to view and manage attendance records for different subjects and dates.

**Included Templates:**

* Manage.layouts.app: The layout template for the admin panel, including common elements like the header and footer.
* Manage.includes.header: A partial template for the header section, containing navigation links and breadcrumbs.

**Page Structure:**

* Header Section: Displays the application name as a link to the dashboard and includes breadcrumbs for navigation.
* Main Content Section: Displays attendance details such as the subject name, date, and list of students with options to mark their attendance.
* Script Section: Empty in this file.

**Dynamic Data:**

The $attendance variable contains attendance data retrieved from the database, including subject details, date, and student list.

1. **settings -> index.blade.php**

**Purpose**:

This file serves as the view template for displaying settings in the admin panel of the attendance management system. It provides a user-friendly interface for administrators to view and update system settings related to general configurations, site logos, and SEO settings.

**Included Templates**:

* Manage.layouts.app: The layout template for the admin panel.
* Manage.includes.header: A partial template for the header section.

**Page Structure:**

* Header Section: Displays the application name as a link to the dashboard and includes breadcrumbs for navigation.
* Main Content Section: Contains tabs for navigating between different settings sections (general, site logo, SEO).
* Each tab displays settings related to the corresponding section.

**Dynamic Data**:

Data related to system settings, such as site name, logo, and SEO configurations, are dynamically retrieved from the database.

1. **singles -> dashboard.blade.php**

**Purpose**:

This file serves as the view template for the admin dashboard in the attendance management system. It provides an overview of important metrics like the total number of students and courses, along with an option to take attendance.

**Included Templates:**

* Manage.layouts.app: The layout template for the admin panel.
* Manage.includes.header: A partial template for the header section.

**Page Structure:**

* Header Section: Displays the application name as a link to the dashboard and includes breadcrumbs for navigation.
* Main Content Section: Displays statistics cards for the total number of students and courses, along with an option to take attendance.

**Dynamic Data:**

The $students\_count variable contains the total number of students in the system.

The $subjects variable contains an array of course objects with their details.

1. **students -> index.blade.php**

**Purpose**:

This file serves as the view template for managing students in the admin panel of the attendance management system. It provides a user-friendly interface for administrators to view, create, update, and delete student records.

**Included Templates:**

* Manage.layouts.app: The layout template for the admin panel.
* Manage.includes.header: A partial template for the header section.
* Manage.pages.Students.modals.CreateStudentModal: A modal template for creating a new student record.
* Manage.pages.Students.modals.UpdateStudentModal: A modal template for updating an existing student record.

**Page Structure:**

* Header Section: Displays the application name as a link to the dashboard and includes breadcrumbs for navigation.
* Main Content Section: Displays a table of student records with options to edit, view, and delete each record.

**Dynamic Data:**

The $students variable contains an array of student objects retrieved from the database.

1. **subject -> index.blade.php**

**Purpose:**

This file serves as the view template for managing subjects (courses) in the admin panel of the attendance management system. It provides a user-friendly interface for administrators to view, create, update, and delete subject records.

**Included Templates:**

* Manage.layouts.app: The layout template for the admin panel.
* Manage.includes.header: A partial template for the header section.
* Manage.pages.Subject.modals.CreateSubjectModal: A modal template for creating a new subject record.
* Manage.pages.Subject.modals.UpdateSubjectModal: A modal template for updating an existing subject record.

**Page Structure:**

* Header Section: Displays the application name as a link to the dashboard and includes breadcrumbs for navigation.
* Main Content Section: Displays a table of subject records with options to edit, view, delete, and assign students to each subject.

**Dynamic Data:**

The $subjects variable contains an array of subject objects retrieved from the database, including details like name, description, and the number of assigned students.

1. **user -> index.blade.php**

**Purpose:**

This file serves as the view template for managing users (customers) in the admin panel of the attendance management system. It provides a user-friendly interface for administrators to view basic information about each customer, such as their name, phone number, and the number of orders they have placed.

**Included Templates:**

* Admin.layouts.app: The layout template for the admin panel.
* Admin.includes.header: A partial template for the header section.

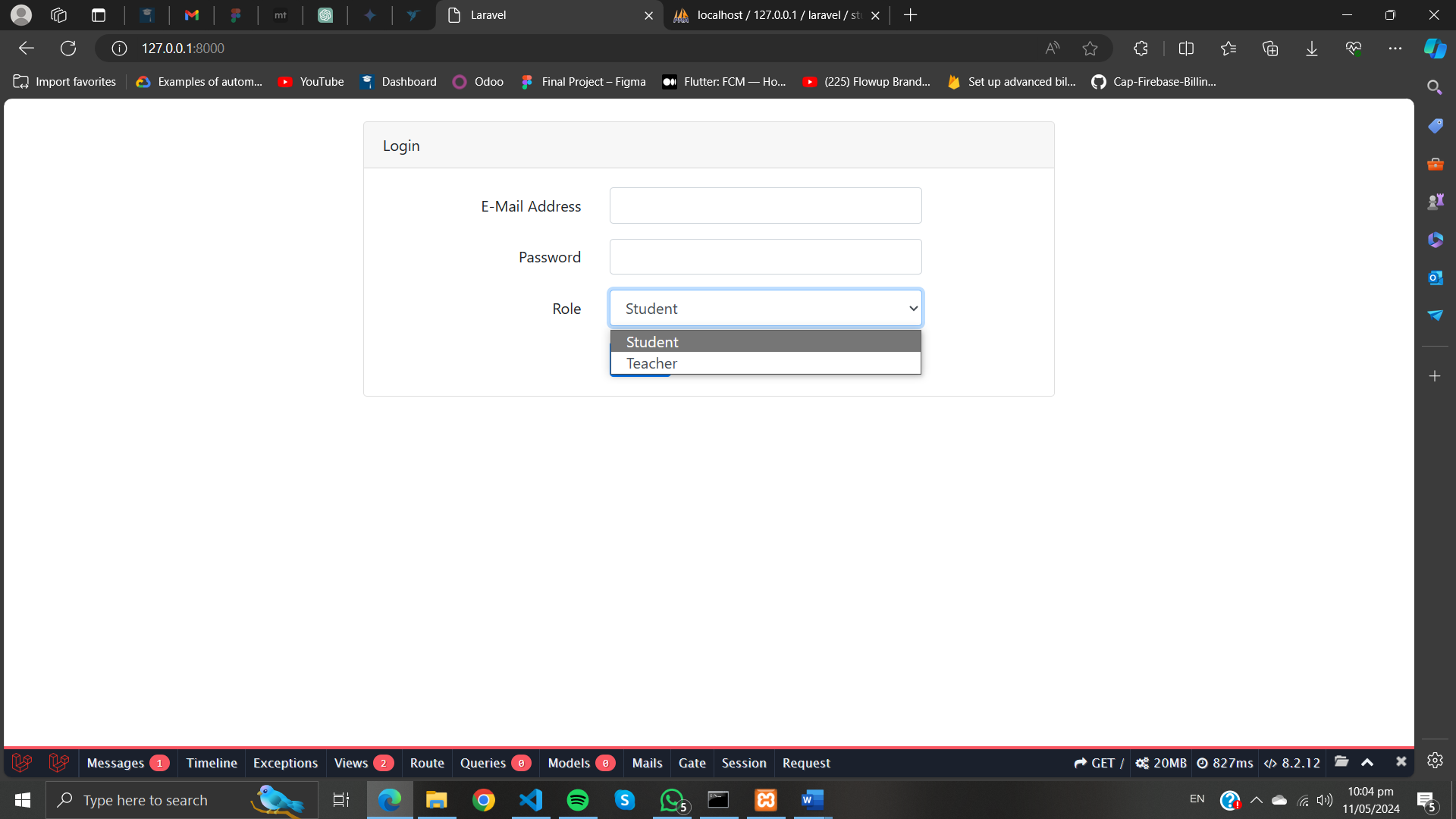
**Page Structure:**

* Header Section: Displays the application name as a link to the dashboard and includes breadcrumbs for navigation.
* Main Content Section: Displays a table of customer records with columns for name, phone number, and number of orders.

**Dynamic Data:**

The $users variable contains an array of user objects retrieved from the database, representing customers.

**Screenshots:**



A screenshot of a computer

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A screenshot of a computer

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A screenshot of a computer

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A computer screen shot of a computer

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