# Department of Computing

**CS344: Web Engineering**

**Class: BESE – 4AB**

# Lab 11: Attendance Recorder

**Date: 8th December, 2015**

# Time: 10:00 AM - 01:00 PM & 02:00 PM – 05:00

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# Lab 11: 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 ;

Github: https://github.com/TahreemSaleem/attendance.git