



## American International University- Bangladesh

# OOP1 Final Term Project Report IT-Center Management System

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**Section** : B

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# IT-Center Management System

## Introduction:

Our project is “It-center Management system “. To reduce the problem to handle employees and student and to trace purchase information easily we have done the project. By our project the manager of it-centre

Can easily handle his or her employee and student . and Student can easily contact with the employees of it center.

## User Category:

There are two types of Users here. They are:

- Employee type user
- Student type user

## Feature List:

In this project the “Employee type user” has the following features:

- Manager can manage all the employees
- Manager and all employees can change password
- Manager and all employees can manage all course
- Manager and all employees can manage students
- Manager and all employees can update his or her details
- Manager and all employees can manage purchase details

In this project the “Student type user” has the following features:

- Can see his or her details
- Can change password

## GUI Description:



In this gui users can login and can go to registration gui .



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A screenshot of a web application window titled "Registration Form". It contains three input fields labeled "Your Name:", "Course Name:", and "Course ID:". Below these fields are two buttons: "Back" and "Submit".

Students can register themselves in this gui.



A screenshot of a web application window titled "Employee Home". It features a dark blue background with the text "Choose your Right Option!" at the top. Below this text are several buttons arranged in a grid: "Manage employee", "Manage Student", "Manage course", "Manage Profile", "Update Info", "See All Student", "Change Password", and "Log out".

In this gui Manager can manage all the employees .Manager and all employees can change password.Manager and all employees can manage all course



A screenshot of a web application window titled "Student Home". It contains two input fields labeled "ID:" and "Name:". Below these fields are two buttons: "Change Password" and "Log out".

In this gui student type user can see their id and name. Student type user can change their password.



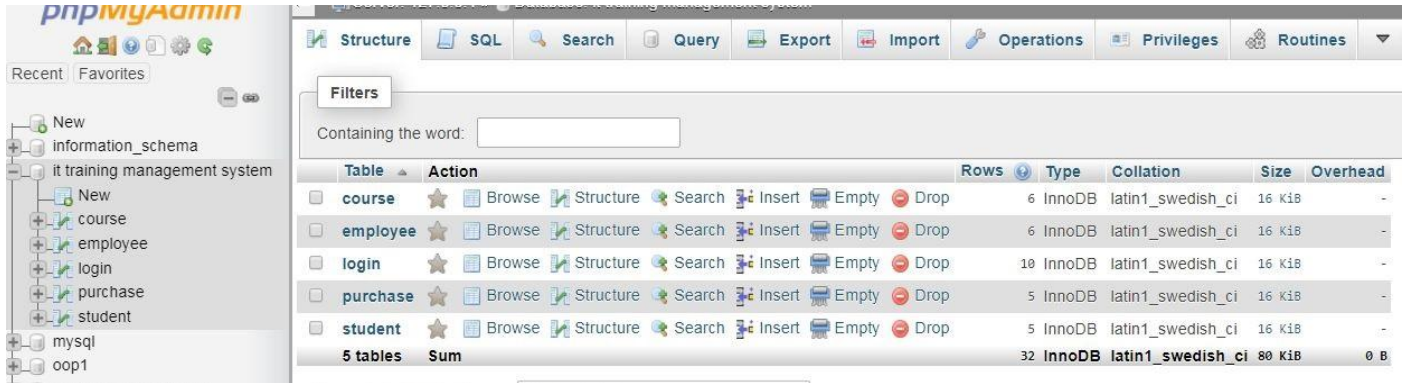
A screenshot of a web application window titled "Password Change". It contains two input fields labeled "Current Password:" and "New Password:". Below these fields is a "Submit" button. At the bottom of the window are two buttons: "Back" and "Log out".



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In this gui Student type user can change their password.

## Database Table Description:



The screenshot shows the phpMyAdmin interface for the 'it training management system' database. The left sidebar shows the database structure with tables: course, employee, login, purchase, and student. The main panel displays a list of tables with their respective actions and statistics.

Table	Action	Rows	Type	Collation	Size	Overhead
course	Browse Structure Search Insert Empty Drop	6	InnoDB	latin1_swedish_ci	16 KiB	-
employee	Browse Structure Search Insert Empty Drop	6	InnoDB	latin1_swedish_ci	16 KiB	-
login	Browse Structure Search Insert Empty Drop	10	InnoDB	latin1_swedish_ci	16 KiB	-
purchase	Browse Structure Search Insert Empty Drop	5	InnoDB	latin1_swedish_ci	16 KiB	-
student	Browse Structure Search Insert Empty Drop	5	InnoDB	latin1_swedish_ci	16 KiB	-
5 tables	Sum	32	InnoDB	latin1_swedish_ci	80 KiB	0 B



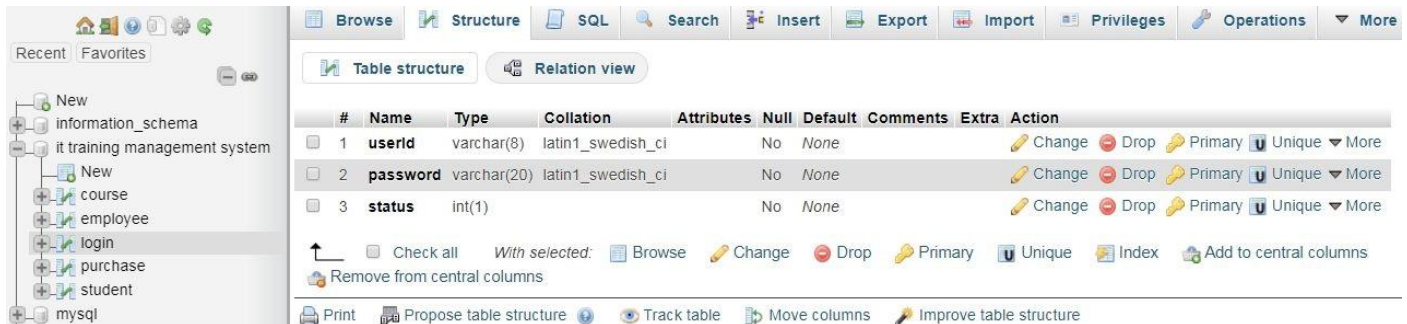
The screenshot shows the 'Table structure' view for the 'course' table. The table has four columns: courseId, courseName, courseFee, and duration. Each column has a unique index and is marked as primary.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	courseId	varchar(8)	latin1_swedish_ci		No	None		Primary Unique	Change Drop Primary Unique More
2	courseName	varchar(30)	latin1_swedish_ci		No	None		Primary Unique	Change Drop Primary Unique More
3	courseFee	double(8,2)			No	None		Primary Unique	Change Drop Primary Unique More
4	duration	varchar(15)	latin1_swedish_ci		No	None		Primary Unique	Change Drop Primary Unique More



The screenshot shows the 'Table structure' view for the 'employee' table. The table has four columns: empId, name, designation, and salary. Each column has a unique index and is marked as primary.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	empId	varchar(8)	latin1_swedish_ci		No	None		Primary Unique	Change Drop Primary Unique More
2	name	varchar(30)	latin1_swedish_ci		No	None		Primary Unique	Change Drop Primary Unique More
3	designation	varchar(30)	latin1_swedish_ci		No	None		Primary Unique	Change Drop Primary Unique More
4	salary	double(8,2)			No	None		Primary Unique	Change Drop Primary Unique More

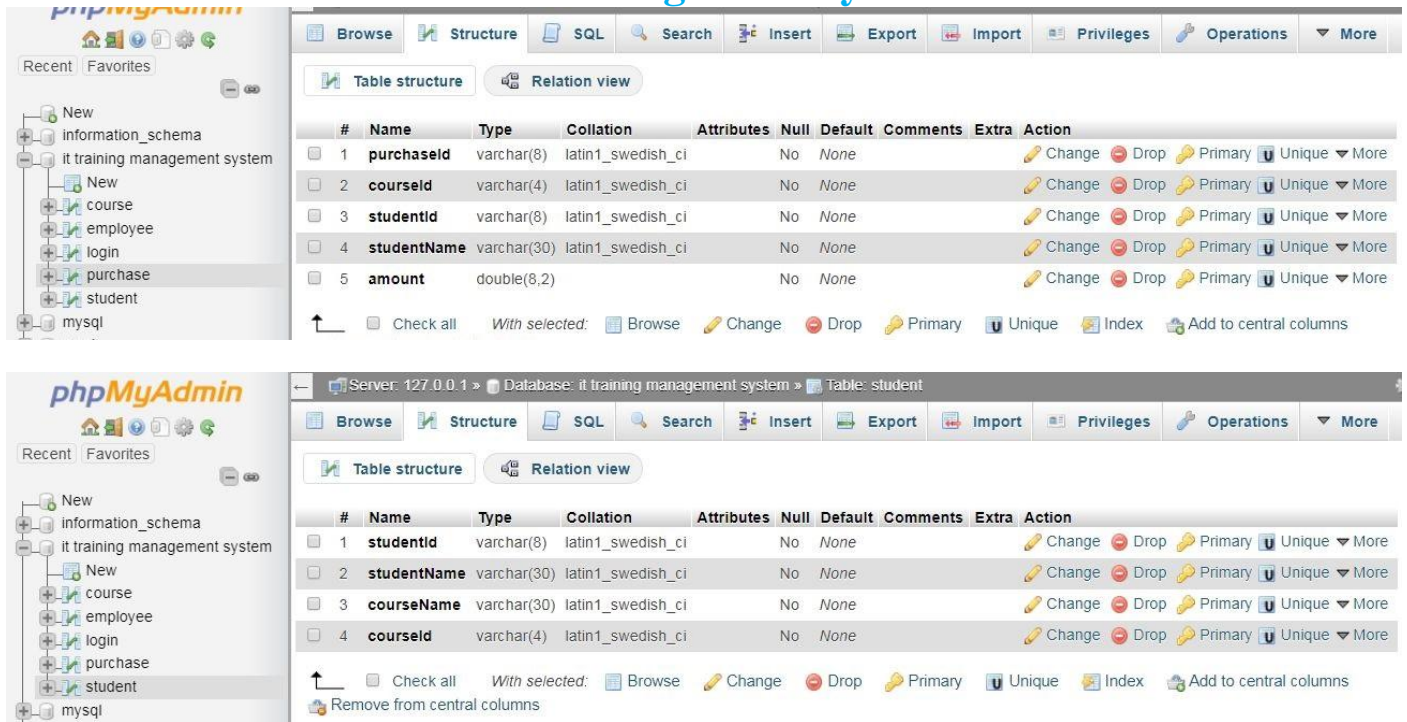


The screenshot shows the 'Table structure' view for the 'login' table. The table has three columns: userId, password, and status. Each column has a unique index and is marked as primary.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	userId	varchar(8)	latin1_swedish_ci		No	None		Primary Unique	Change Drop Primary Unique More
2	password	varchar(20)	latin1_swedish_ci		No	None		Primary Unique	Change Drop Primary Unique More
3	status	int(1)			No	None		Primary Unique	Change Drop Primary Unique More



# IT-Center Management System



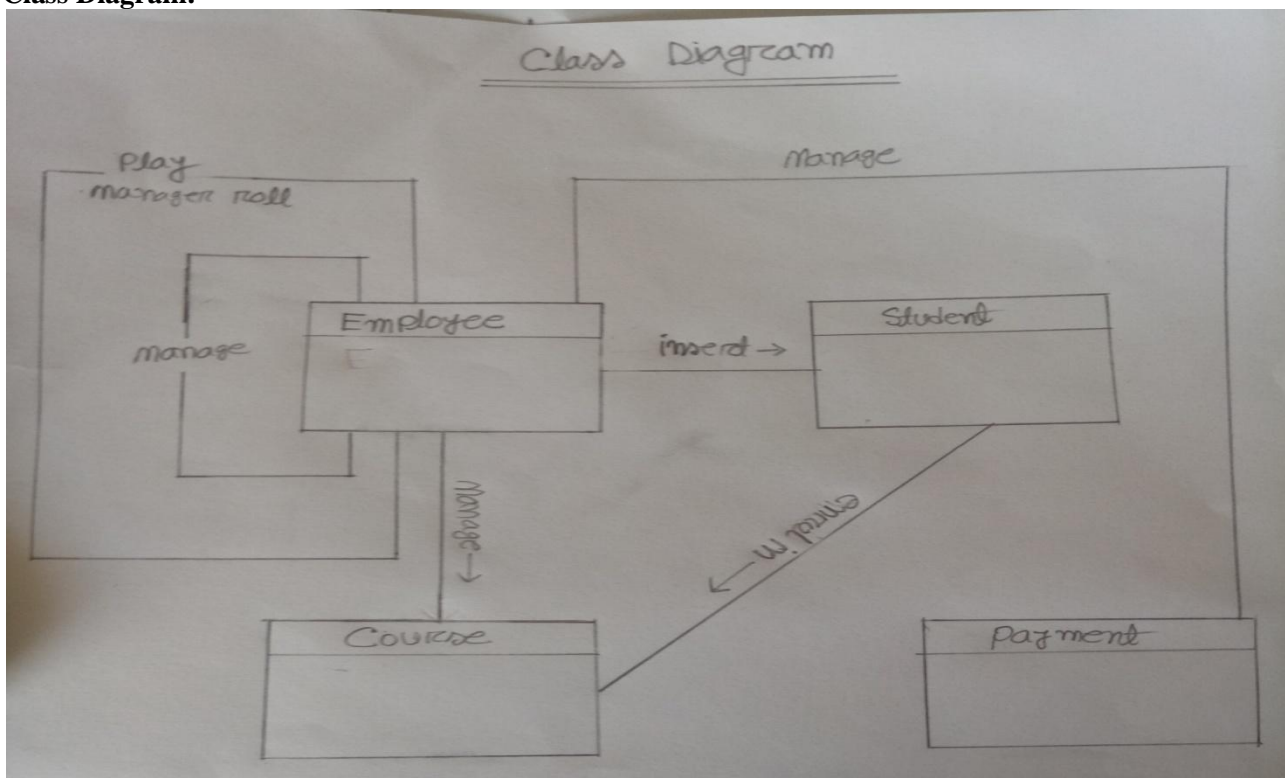
The image shows two screenshots of the phpMyAdmin interface. The top screenshot displays the 'Table structure' view for the 'it training management system' database, listing five tables: purchase, course, student, login, and purchase. The bottom screenshot shows the 'Table structure' view for the 'student' table, listing four columns: studentid, studentName, courseName, and courseid.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	purchaseid	varchar(8)	latin1_swedish_ci		No	None			Change Drop Primary Unique More
2	courseid	varchar(4)	latin1_swedish_ci		No	None			Change Drop Primary Unique More
3	studentid	varchar(8)	latin1_swedish_ci		No	None			Change Drop Primary Unique More
4	studentName	varchar(30)	latin1_swedish_ci		No	None			Change Drop Primary Unique More
5	amount	double(8,2)			No	None			Change Drop Primary Unique More

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	studentid	varchar(8)	latin1_swedish_ci		No	None			Change Drop Primary Unique More
2	studentName	varchar(30)	latin1_swedish_ci		No	None			Change Drop Primary Unique More
3	courseName	varchar(30)	latin1_swedish_ci		No	None			Change Drop Primary Unique More
4	courseid	varchar(4)	latin1_swedish_ci		No	None			Change Drop Primary Unique More

## Class Diagram:



## Tools Used:

To develop this project we have used the following:

- jdk
- xampp





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- .jar
- notepad ++

## **OOP and Java Concepts Used:**

- Concept 1: Encapsulation : we have given setter and getter method for all the attributes of classes. which is known as encapsulation because we bound a setter and getter method with an attribute
- Concept 2: Gui: we have used gui for user interfaces.
- Database: we have used database for storing the data

## **Impact of this Project:**

1. can know about it related course easily
2. the society will get information about Information and technology
3. it center owner as well as the employees of it center will be benefited as they can handle a lot of student easily

How will people be benefitted from your project?

The people of the society can get service from It-center and It-centre can provide better service.

Employee can easily handle their jobs and other stuffs. Student can get information about it related course easily.

It center will be benefitted because they can handle a lot of student easily and can earn a good amount of profit.

## **Limitations and Possible Future Improvements:**

There are no specific options for trainer. Student can only change their password. Courses can not be deleted. Purchase information and student information cannot be deleted. In future we will try to overcome these limitations and will provide better facilities.

