



American International University- Bangladesh

Course: OBJECT ORIENTED PROGRAMMING 1 (JAVA)

OOP1 Final Term Project Report IT-Center Management System

Project Submitted By:

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IT-Center Management System

Introduction:

Our project is “It-center Management system “. To reduce the problem to handle employees and students and to trace purchase information easily we have done the project. In our project the manager of it-center can easily handle his or her employee and student. Students can easily contact 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 log in and can go to the registration GUI.



IT-Center Management System



Registration form GUI. The window title is 'RegistrationForm'. It contains three input fields: 'Your Name:', 'Course Name:', and 'Course ID:'. Below the fields are two buttons: 'Back' and 'Submit'.

Students can register themselves in this GUI.



Employee Manager GUI. The window title is 'Employee Manager'. It has a dark blue background with the text 'Choose your Right Option!' at the top. Below this are several buttons: 'Manage employee', 'Manage Password', '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



Student Home GUI. The window title is 'StudentHome'. It contains two input fields: 'ID:' and 'Name:'. Below these fields are two buttons: 'Change Password' and 'Log out'.

In this GUI student-type users can see their id and name. Student type user can change their password.



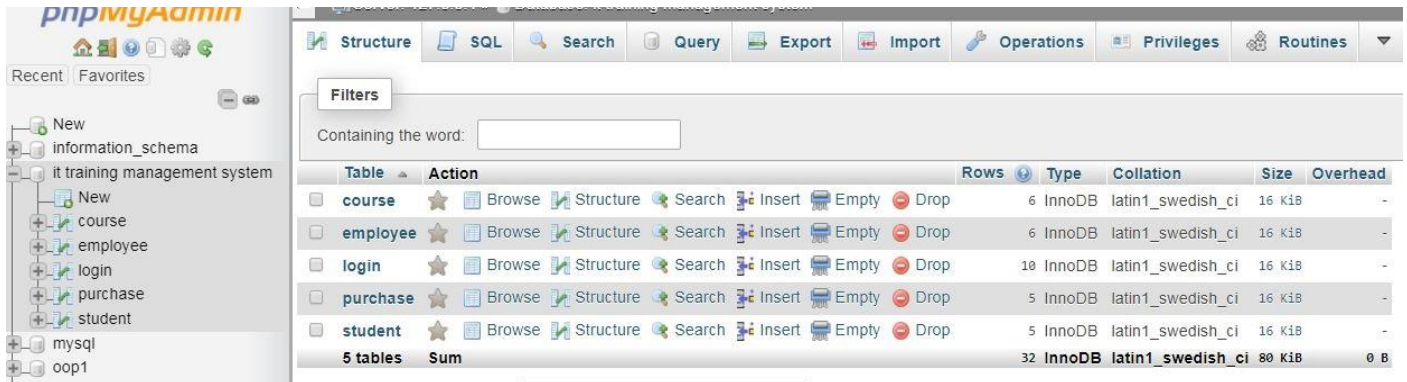
Password Change GUI. The window title is 'PasswordChange'. It contains two input fields: 'Current Password:' and 'New Password:'. Below these fields is a 'Submit' button. At the bottom are two buttons: 'Back' and 'Log out'.



IT-Center Management System

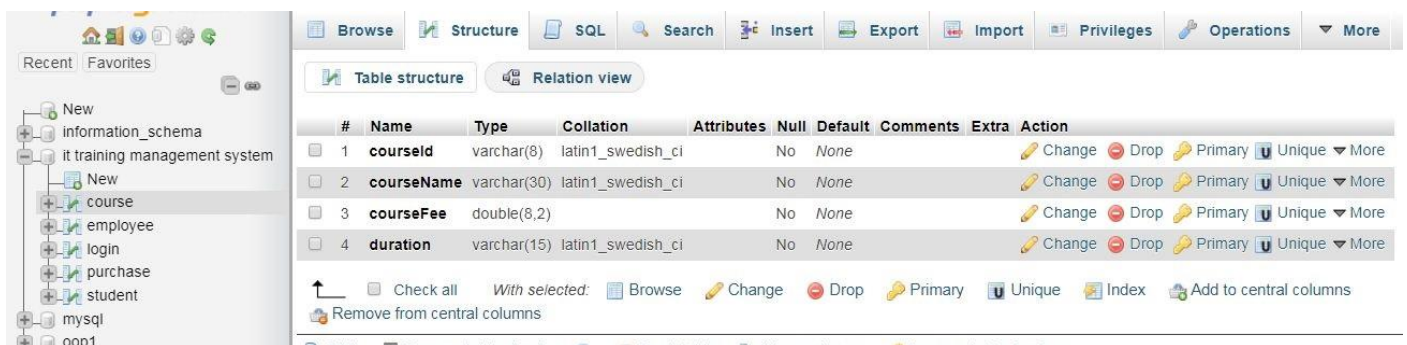
In this GUI Student type users can change their password.

Database Table Description:



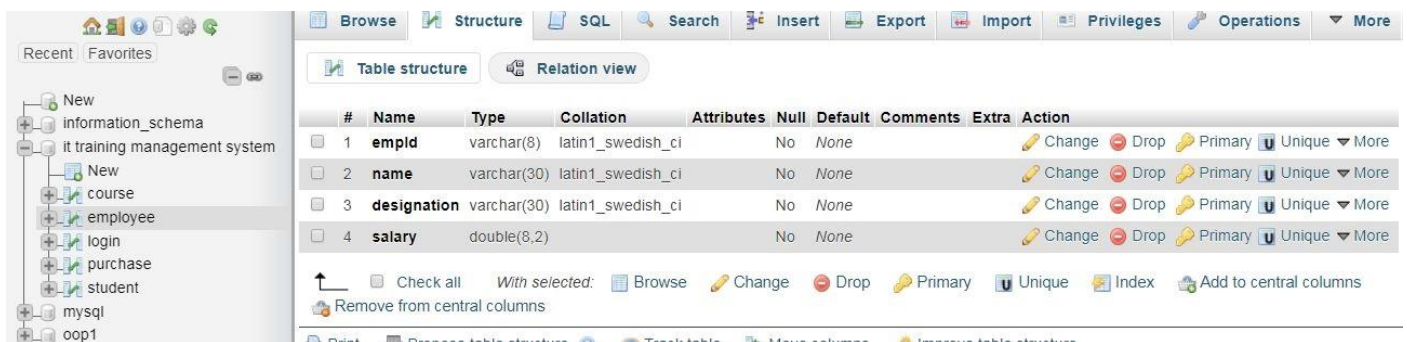
The screenshot shows the phpMyAdmin interface. On the left, the database 'it training management system' is selected, showing a list of tables: course, employee, login, purchase, and student. The main panel displays the 'Structure' tab for the selected database. It shows a list of tables with their respective row counts, types, collations, sizes, and overheads.

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



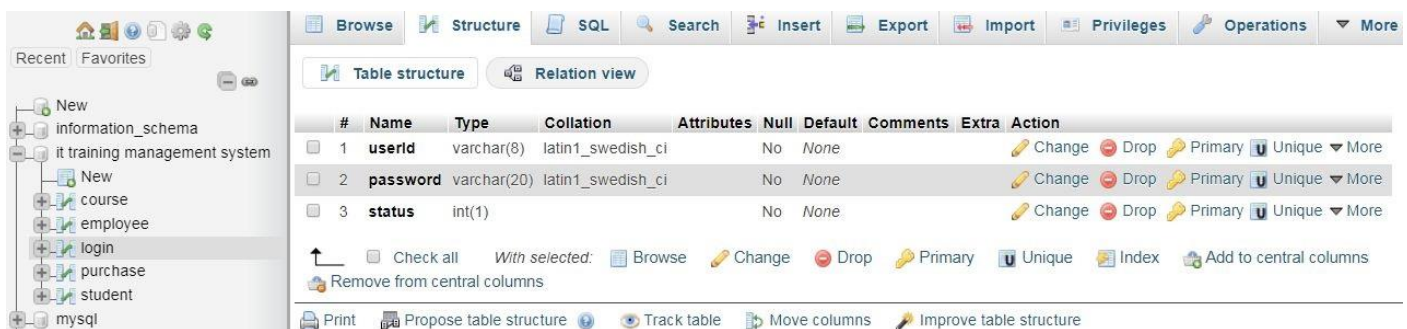
The screenshot shows the 'Table structure' view for the 'course' table. It lists the table's columns, their data types, collations, attributes, nullability, defaults, comments, and actions.

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



The screenshot shows the 'Table structure' view for the 'employee' table. It lists the table's columns, their data types, collations, attributes, nullability, defaults, comments, and actions.

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



The screenshot shows the 'Table structure' view for the 'login' table. It lists the table's columns, their data types, collations, attributes, nullability, defaults, comments, and actions.

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



IT-Center Management System

phpMyAdmin

Recent Favorites

- New
- information_schema
- it training management system
 - New
 - course
 - employee
 - login
 - purchase
 - student
- mysql

Table structure

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

Check all With selected: Browse Change Drop Primary Unique Index Add to central columns

phpMyAdmin

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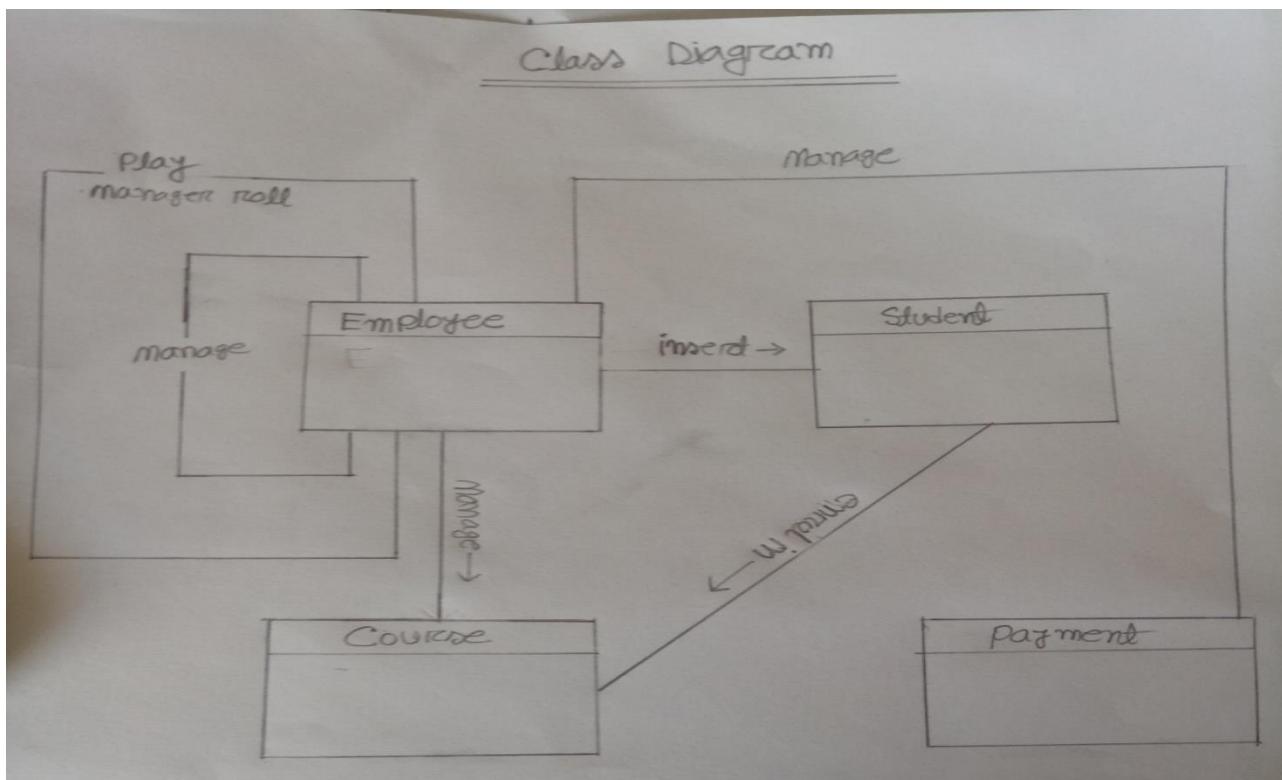
Server: 127.0.0.1 » Database: it training management system » Table: student

Table structure

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

Check all With selected: Browse Change Drop Primary Unique Index Add to central columns Remove from central columns

Class Diagram:



IT-Center Management System

Tools Used:

To develop this project we have used the following:

- jdk
- xampp
- .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 date

Impact of this Project:

1. Can know about it related courses easily
 2. Society will get information about Information and technology
 3. IT center owner, as well as the employees of it center, will benefited as they can handle a lot of students 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.

An employee can easily handle their jobs and other stuffs. Students can get information about it related courses easily.

The center will be benefitted because they can handle many students easily and earn a good amount of profit.

Limitations and Possible Future Improvements:

There are no specific options for the trainer. Student can only change their password. Courses cannot be deleted. purchase information and student information cannot be deleted. In the future, we will try to overcome this limitation and will provide better facilities.

