

# Courses Management System

## \*Overview:

- The project offers courses for students that want to be professional in programming languages.
- It makes registration for students by giving them ids and taking their names, phone numbers and courses.
- User access with the application, not the client.
- The user has an account on the application and can create another one.

## \*Database class:

- Database class connect between PHP myadmin and Netbeans .
- The connection of database has been activated only one time and when we make more than operation we need to take the constructor from database class.

\*client class: it is a public class extends from database class including `name_client(String)`,

age\_client(String),gender\_client(String), course\_client(String) and phonenumber\_client(String) .

\*1st method insert\_toCourse: it is a static method and has throws exception (ClassNotFoundException,SQLException) includes six string parameters(name, age,gender, course,phone and id) .it has an object called resultSet from resultSet class (responsible for checking for the repeated id ) . It also add the client data.

2nd method drop : it is a static method and has throws exception(ClassNotFoundException , SQLException) includes 1 string parameter (id).it has an object called resultSet from resultSet class (responsible for checking if the id matches the entered id it will drop the client data if does not match it will be an error).

3rd method search : it is a static method and has throws exception(ClassNotFoundException , SQLException) includes 1 string parameter (id).it has an object called resultSet from resultSet class responsible for checking if the id matches the entered id it will search for the client data if does not match it will be an error).

\*4th method edit\_name: it is a static method and has throws exception (ClassNotFoundException,SQLException) includes 2 string parameters(name, String, id) .it has an object called resultSet from resultSet class (responsible for checking for the repeated id) . It also edit the client name.

\*5th method `edite_course`: it is a static method and has throws exception (`ClassNotFoundException`,`SQLException`) includes six string parameters(`course` and `id`) .it has an object called `resultSet` from `resultSet` class (responsible for checking for the repeated id ) . It also edit the course.

\*6<sup>th</sup> method `edite_PhoneNumber`: it is a static method and has throws exception (`ClassNotFoundException`,`SQLException`) includes six string parameters(`PhoneNumber` and `id`) .it has an object called `resultSet` from `resultSet` class (responsible for checking for the repeated id ) . It also edit the `PhoneNumber`.

\*`Courses`class:

it is public class extends from `application` .

1stmethod `start`:it is method has throws `ClassNotFoundException` and `SQLException` include one parameter (`stage` `primarystage`) .

using `HBox` to enter the username and password horizontally  
`VBox` to make them on the same column .pane to enter the image

we use the fitwidth and fitheight to control the image.

we make login including username, password and radiobutton to create new account

If you entered wrong name and give your a message.

If you entered wrong password and give your a message.

setTextfill give the styel of label.setalignment take a position of the label.

use the exception handling (try catch)

it is responsible for checking the username and password it is correct or not and give me a message that was wrong

and responsible for checking the id and password from database by resultset

if it is true so enter the when\_login and if it is false so enter the login failed

vin catch we use SQL and NotFoundException

Entering all panes in the scene and Enter the scene in the stage (primaryStage)

2nd method start:we use gridpane .

in the first column enter in index 0  
(firstname,password,repeat,phone) .

in the second column enter in index 1 (name,pass,RE,number).

the button called is create in column 1 and row 5 .

setTextfill give the style of label.setalignment take a position of the label.

setonaction :button is create the account to user.

if statement:

if we have textfield=null print "error".

if not null enter new statement( password.equals(repeat,  
name.matches("[a-z]") , number.matches("[0-9]") ,  
number.length() == 11)

if statement:

insert into(USERNAME, password ,repeatpassword,  
phonenumber)in database

else

print error by label in scene.

in catch we use SQLException and NotFoundException.

enter gridpane in the scene and Enter the scene in the stage  
(m).

-now we are going to talk about the main project which includes launch(argc)and the creation of the database tables(connect table,registration).

\*3<sup>rd</sup> method when\_Login: it is a static method and has throws exception (classnotfound,sql) includes 1stage called (po).

we use borderpane called myApp and it is the main pane. we put in the left of the border pane vbox which includes 6 togglebuttons .

we put in the top of the border pane Hbox which includes photo1 and the label welcome.

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po stage includes 6 imageview

(photo1,photo2,photo3,photo4,photo5,photo6,photo7) we use function setFitHeight and setFitWidth to control image dimensions . it includes 6 togglebuttons(Button1 : HOME ,Button2: ADD

CLIENT,Button3:SEARCH,Button4:DROP,Button5:EDIET,Button6: BACK) . we use the function setStyle to choose the style of the

button by CSS. we use the object (Group) to choose a specific button. The function setSpacing controls vbox dimensions.vbox that called centre is the centre of the borderpane. we use select toggle property function and addlistener function to get new toggle. Button1 is the home of my app.we use getchildren.clear() to clear the centre from any node and we use setFitwidth function and setFithight to control the image dimensions.

we put the image in a pane called pane by using getchildren.addAll .the button add responsible for adding client information(name, age ,course,etc).Disable function enables the user to press on the 1st button (button2) after that it enables the user to press on all the buttons except the 1st button (button2). we have flowpane (a) that includes vertical nodes, we put (name, age, id, phone number, female) on it vertically.

we have flowpane (m) that includes horizontal nodes, we put (n, A, i, p, Male, s2, Add) on it horizontally. we have flowpane(k) that includes (a,m).

we have pane called (img) we put the photo and the flowpane (k) on it by using getchildren().addAll() function. we put the pane (img) in the centre by using getchildren().addAll() function. The button add puts client info and client courses in the database. we have 2 types of exception handling

(SQL,classNotFound). Disable function enables the user to press on the 1st button (button3) after that it enables the user to press on all the buttons except the 1st button (button3) .we use `getchildren.clear()` to clear the centre from any node. The header hbox includes 6 labels(Name, age,gender,course,phone number,id ) .The hbox(h\_search) includes 3 nodes (label enter\_id, textfield enter\_idt,button search). we make vbox and put on it h\_search and the header. Disable function enables the user to press on the 1st button (button3) after that it enables the user to press on all the buttons except the 1st button (button3) .we have 2 types of exception handling(SQL,classNotFound). Disable function enables the user to press on the 1st button (button4) after that it enables the user to press on all the buttons except the 1st button (button4). we use `getchildren.clear()` to clear the centre from any node. The header hbox includes 6 labels(Name, age,gender,course,phone number,id ) .The hbox h\_drop includes (label enter\_id, TextField enter\_idt,button drop) . we put the pane h\_drop in the centre by using `getchildren().addAll()` function.we have 2 types of exception handling(SQL,classNotFound). Disable function enables the user to press on the 1st button (button5) after that it enables the user to press on all the buttons except the 1st button (button5). we use `getchildren.clear()` to clear the centre from any node. we have a border pane includes listview in the top .



we have in the centre of my app edit B. we have vbox: . we create an object called list (orientation horizontally )from listview class. we use list.getItems.all() to add the items to the list. we use select toggle property function and addlistener function to get new value.we have switch case which has 3 cases: 1st case name: we use 2hbox and 1 vbox to organize the nodes and we have a button called name\_button to edit my name from the database and have some statements same like that found in function start,2nd case course: we use 2hbox and 1 vbox to organize the nodes and we have a button called course\_button to edit my course from the database and have some statements same like that found in function start.we have 2 types of exception handling(SQL,classNotFound).and 3rd case phone\_number: we use 2hbox and 1 vbox to organize the nodes and we have a button called phonenumber\_button to edit my phonenumber from the database and have some statements same like that found in function start.we have 2 types of exception handling(SQL,classNotFound). Button6(BACK)to back and logging in. we put myapp in the scene and put the scene in the stage(s).

