Computer and Communications SSP
CC471, Database Systems
Lab 2

Faculty of Engineering Scientific
Specialized Programs
Fall 2019

Lab 2

Login and Registration form

Objectives:

- Dealing with PhpMyAdmin and learning basic SQL commands.
- Integrating Web applications with database.
- Creating basic registration and login form using HTML and PHP.
- Validating forms using JavaScript.

phpMyAdmin:

PhpMyAdmin **is a free software tool written in** PHP **to handle the administration of** MySQL Database **with the use of a web browser.**

It supports wide range of MySQL **operations**

First: Run PhpMyAdmin:

- Open XAMPP start the Apache and MySQL
- Open the browser and type into the url: **http://localhost/phpmyadmin**
- By default browser search for service using port 80, if you are using different port for apache (ex: 8080)
  type : **http://localhost:8080/phpmyadmin** instead

Second: Create Database:

1. Create Your Database :

   You can either open "database" tab and type your database name or opening the "SQL" tab and type this DDL SQL query to create database:
   ```
   Create database registration;
   ```

2. Create the User table :

User (<u>user_id</u>, email, username, password, registration_date)

Note: make sure that field **user_id** is auto increment to let the system generates it automatically and will be incremented by 1 after each insert.

Use the following DDLs to create table:

```sql
Use registration;

create table user(
    user_id int not null auto_increment,
    email varchar(225) not null,
    username varchar(225) not null,
    password varchar(225) not null,
    registration_date timestamp default current_timestamp,

    PRIMARY KEY (user_id)
);
```

3. To check you table is created correctly

On the left sidebar press on reload and click on your database, it should expand and your table should appear.
Then use the following DML insert statement to insert a new record into user table from your phpMyAdmin page :

```sql
INSERT INTO `user`( `email`, `password`,
`registration_date`) VALUES ('test@test.com',
'testpassword', '2014-10-28 03:11:15');
```

Third: Create The Web App :

1. Create a **home page** with two options "Register" and "Login" buttons

2. Login Button should redirect to a **login form** for the user to insert his email and password. Name this file **login.php**

   - Make the necessary client side validations on these fields using JavaScript :
     - Email and password are not empty.

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- Email has a valid email format.

The php code should connect to Mysql and run a query to select user data by the provided password and email.

Hint: http://www.phponwebsites.com/2014/07/php-mysql-login-validation.html

3. Register button should redirect to a **registration form** for the user to insert his name, email and password. Name this file r**egister.php**

● Make the necessary client side validations on these fields using JavaScript:
   - Username, email and password are not empty.
   - Email has a valid email format.

4. After submission of both forms, you should redirect the user to another page called **welcome.php.** If user credentials are valid, it should say **Welcome {UserName},** Else print "Invalid Credentials"

Bonus:
- Submitting the form using Ajax.
- Using CSS to format the forms.
- Saving encrypted MD5 password.
- Validate the email is unique (Two users can never have same email), you can show "invalid credentials" on registering with an existing email.

Policies :
● Lab submission and discussion will be online, please take the time to prepare for this assignment.
● You should work individually.
● If 2 or more copies are discovered, all copies will lose all the marks of year work. Hence, it is better to deliver nothing than delivering a copy.
● Late submission is allowed for one week with 80% of the total mark. No late submission is allowed after that.