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Івано-Франківський національний технічний університет нафти й газу

Кафедра комп'ютерних систем і мереж

Лабораторна робота №9
на тему:
«Робота з сесіями (сесіями) в PHP»

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Сорока А.Є.

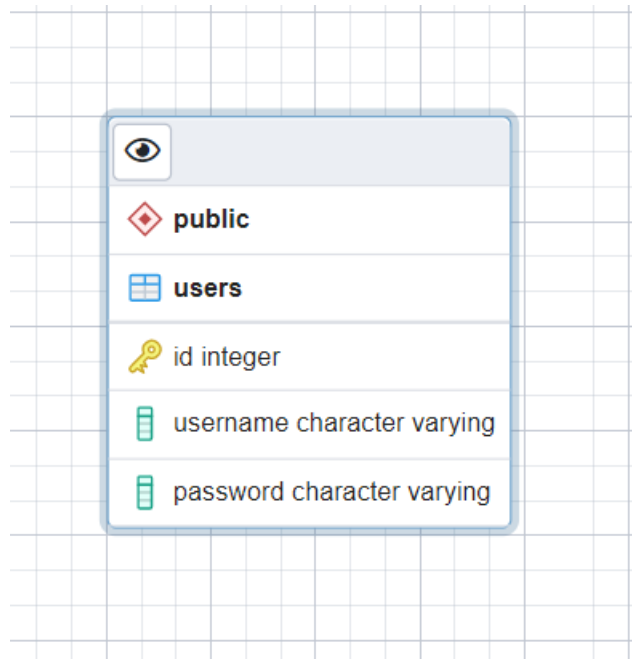
Перевірив: викладач

Слабінога М.О.

м. Івано-Франківськ

2021

1. Створення таблиці users



2. Код LR9.1.php

<?php

```
session_start();

if(isset($_SESSION['username']))
    echo "logged in as ". $_SESSION['username'];
else
    echo "not logged in";

if(isset($_POST['login'])) {
    $servername = "localhost";
    $username = "postgres";
    $password = "*****";
    $database = "phplab";

    // Create connection
    $dbconn = pg_connect("host=$servername dbname=$database
user=$username password=$password")
    or die('Could not connect: ' . pg_last_error());

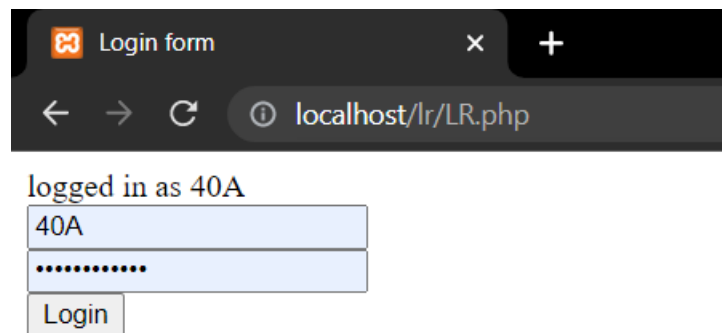
    //create options for select
    $query = "SELECT * FROM users WHERE
username='".$_POST['login']."' AND
password='".md5($_POST['password']).'";
    $result = pg_query($query);
    $row_cnt = pg_num_rows($result);
    if($row_cnt>0){
        while($row = pg_fetch_assoc($result)) {
            echo "logged in as ". $row['username'];
            $_SESSION['username']=$row['username'];
            header("Location: LR2.php");
        }
    }
}
```

```

    }
    } else
        echo "wrong login or password";
    }
?>
<html>
    <head>
        <title>Login form</title>
    </head>
    <body>
        <form method="POST">
            <input type="text" placeholder="login" name="login"
required/><br>
            <input type="password" placeholder="password"
name="password" required/><br>
            <input type="submit" value="Login"/>
        </form>
    </body>
</html>

```

3. Результат виконання LR9.1.php



4. Код LR9.2.php

```

<?php

abstract class Operation {

    protected $array;

    public function __construct($array) {
        $this->array = $array;
    }

    public function set_array($array){
        $this->array = $array;
    }

    public function get_array($array){
        return $this->array;
    }
}

```

```

        abstract public function calc($itIsRow, $rowOrColumnNumber);
    }

    class MatrixSum extends Operation {
        public function calc($itIsRow, $rowOrColumnNumber){
            $sum = 0;

            if($itIsRow)
                foreach ($this->array[$rowOrColumnNumber] as $a)
                    $sum += $a;
            else
                foreach ($this->array as $a)
                    $sum += $a[$rowOrColumnNumber];

            return $sum;
        }
    }

    class MatrixAvg extends Operation {
        public function calc($itIsRow, $rowOrColumnNumber){
            $sum = 0;
            $i = 0;
            if($itIsRow)
                foreach ($this->array[$rowOrColumnNumber] as $a){
                    $sum += $a;
                    $i++;
                }
            else
                foreach ($this->array as $a){
                    $sum += $a[$rowOrColumnNumber];
                    $i++;
                }
            return $sum/$i;
        }
    }

    session_start();
    if(isset($_SESSION['username']))
        echo "logged in as ". $_SESSION['username'];
    else
        header("Location: LR.php");

    // Connecting, selecting database
    $dbconn = pg_connect("host=localhost dbname=phplab user=postgres
password=*****")
    or die('Could not connect: ' . pg_last_error());

    $query = 'SELECT * FROM operations';
    $result = pg_query($query) or die('Query failed: ' .
pg_last_error());
    $operation_options="";

```

```

        if (pg_num_rows($result) > 0) {
            while($row = pg_fetch_assoc($result)) {
                $operation_options.="<option
value='\".$row['id'].\"'>\".$row['name'].\"</option>";
            }
        }

        if(isset($_GET['deletedata'])) {
            $query = "DELETE FROM data WHERE id=".$_GET['deletedata'];
            pg_query($query);
        }

        if(isset($_POST['opdata'])) {
            $data = json_decode($_POST['opdata'], true);

            if($_POST['optype'] == 1) {
                $matrix = new MatrixSum($data["matrix"]);
            } else if($_POST['optype'] == 2) {
                $matrix = new MatrixAvg($data["matrix"]);
            }

            $query = "INSERT INTO data VALUES (DEFAULT, " .
$_POST['optype'] . ", '" . $_POST['opdata'] . "', " . $matrix-
>calc(($data["isRow"] == 'row'), $data["number"]) . ")";
            pg_query($query);
        }

        $query = "SELECT * FROM data INNER JOIN operations ON
operations.id=data.optype;";
        $result = pg_query($query) or die('Query failed: ' .
pg_last_error());
        $table_body="";
        if (pg_num_rows($result) > 0) {
            while($row = pg_fetch_assoc($result)) {
                $table_body.="<tr><td>\".$row['id'].\"</td><td>\".$row['name']
.\"</td><td>\".$row['input'].\"</td><td>\".$row['output'].\"</td><td><a
href='lr.php?deletedata=\".$row['id'].\"'>Delete</a></td></tr>";
            }
        }

        // Free resultset
        pg_free_result($result);

        // Closing connection
        pg_close($dbconn);

        ?>

<html>

```

```

<head>
    <title>LR7</title>
</head>
<body>
    <form method="POST" action="LR.php">
        <p>
            <label for="optype">Select operation type:</label>
        </p>
        <p>
            <select name="optype">
                <?php echo $operation_options; ?>
            </select>
        </p>
        <p>
            <label for="opdata">Enter JSON like {"isRow": true,
"number": 2, "matrix" : [[12, 15, 15], [21, 15, 15], [30, 15, 15]]}
:</label>
        </p>
        <p>
            <input type="text" name="opdata" required>
        </p>
        <p>
            <input type="submit" value="Send data">
        </p>
    </form>
    <table>
        <thead>
            <tr>
                <th>ID</th>
                <th>Operation</th>
                <th>Input</th>
                <th>Output</th>
                <th>Actions</th>
            </tr>
        </thead>
        <tbody>
            <?php echo $table_body; ?>
        </tbody>
    </table>
</body>
</html>

```

6. Результат виконання LR9.2.php

LR7

localhost/lr/LR2.php

logged in as 40A

Select operation type:

sum

Enter JSON like {"isRow": true, "number": 2, "matrix" : [[12, 15, 15], [21, 15, 15], [30, 15, 15]]} :

Send data

| ID | Operation | Input | Output | Actions |
|----|-----------|--|--------|------------------------|
| 1 | sum | {"isRow": true, "number": 2, "matrix" : [[12, 15, 15], [21, 15, 15], [30, 15, 15]]} | 60 | Delete |
| 1 | sum | {"isRow": true, "number": 2, "matrix" : [[12, 15, 15], [21, 15, 15], [30, 15, 15]]} | 60 | Delete |
| 1 | sum | {"isRow": true, "number": 2, "matrix" : [[12, 15, 15], [21, 15, 15], [15, 15, 15]]} | 45 | Delete |
| 2 | avg | {"isRow": false, "number": 2, "matrix" : [[12, 15, 15], [21, 15, 15], [30, 15, 15]]} | 15 | Delete |
| 2 | avg | {"isRow": false, "number": 2, "matrix" : [[12, 15, 15], [21, 15, 15], [30, 15, 15]]} | 15 | Delete |
| 2 | avg | {"isRow": false, "number": 2, "matrix" : [[12, 15, 15], [21, 15, 15], [30, 15, 15]]} | 15 | Delete |