

Міністерство освіти і науки України
Івано-Франківський національний технічний університет нафти й газу

Кафедра комп'ютерних систем і мереж

Лабораторна робота №11

на тему:

«Робота з моделлю MVC»

Виконав: студент групи КІ-21-1К

Сорока А.Є.

Перевірив: викладач

Слабінога М.О.

м. Івано-Франківськ

2021

1. Код DatabaseModel.php

```
<?php
    require_once './config.php';

    class Database{

        public function __construct($servername, $username,
$password, $database) {

            $this->servername = $servername;
            $this->username = $username;
            $this->password = $password;
            $this->database = $database;

        }

        public function fetch_all_from_db(){
            $dbconn = pg_connect("host=localhost dbname=phplab
user=postgres password=***") //HARDCODE
            or die('Could not connect: ' . pg_last_error());
            $query = "SELECT * FROM data INNER JOIN operations ON
operations.id=data.optype";
            $result = pg_query($query)
            or die('Query failed: ' . pg_last_error());
            $data_array=array();
            if (pg_num_rows($result) > 0) {
                while($row = pg_fetch_assoc($result)) {
                    array_push($data_array,$row);
                }
            } else{echo "Empty";}

            // Free resultset
            pg_free_result($result);

            // Closing connection
            pg_close($dbconn);

            return $data_array;
        }

        public function fetch_operation_types_from_db(){
            $dbconn = pg_connect("host=localhost dbname=phplab
user=postgres password=***") //HARDCODE
            or die('Could not connect: ' . pg_last_error());
            $query = "SELECT * FROM operations";
            $data_array=array();
            $result = pg_query($query)
            or die('Query failed: ' . pg_last_error());
            $data_array=array();
            if (pg_num_rows($result) > 0) {
                while($row = pg_fetch_assoc($result)) {
                    array_push($data_array,$row);
                }
            }
        }
    }
}
```

```

    }
    } else{echo "Empty";}

    // Free resultset
    pg_free_result($result);

    // Closing connection
    pg_close($dbconn);

    return $data_array;
}

public function add_operation($optype,$opdata,$result){
    $dbconn = pg_connect("host=localhost dbname=phplab
user=postgres password=***") //HARDCODE
    or die('Could not connect: ' . pg_last_error());
    $query = "INSERT INTO data VALUES (DEFAULT,
'".$optype."', '".$opdata."', '".$result."')";
    pg_query($query);

    // Free resultset
    pg_free_result($result);

    // Closing connection
    pg_close($dbconn);
}

public function delete_operation($id){
    $dbconn = pg_connect("host=localhost dbname=phplab
user=postgres password=***") //HARDCODE
    or die('Could not connect: ' . pg_last_error());
    $query = "DELETE FROM data WHERE id=".$id;
    pg_query($query);

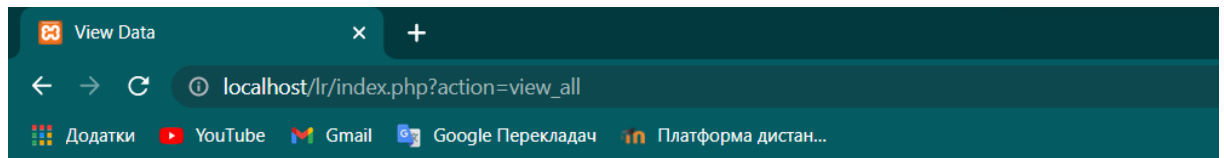
    // Free resultset
    pg_free_result($result);

    // Closing connection
    pg_close($dbconn);
}
}
?>

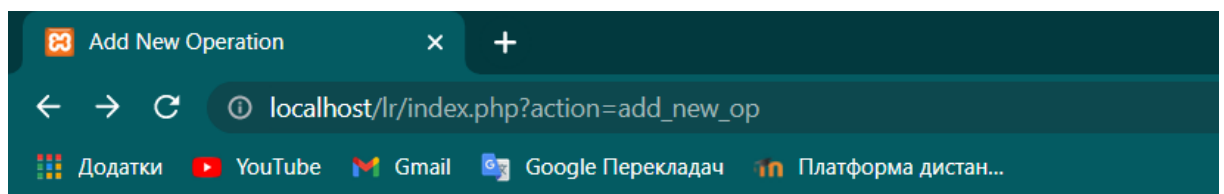
```

P.S. інші файли майже не зазнали змін з тому їх коду не буде наведено

2. Результат виконання



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



[View Data](#) [Add Operation](#) [Delete](#)

Select operation type:

sum ▼

Enter array with elements separated by space:

Send data