

# Mailinglist – php example code – part 2 – subscription page

Article describe database table design and appropriate parts of index.php responsible for subscription of user into a mailinglist.

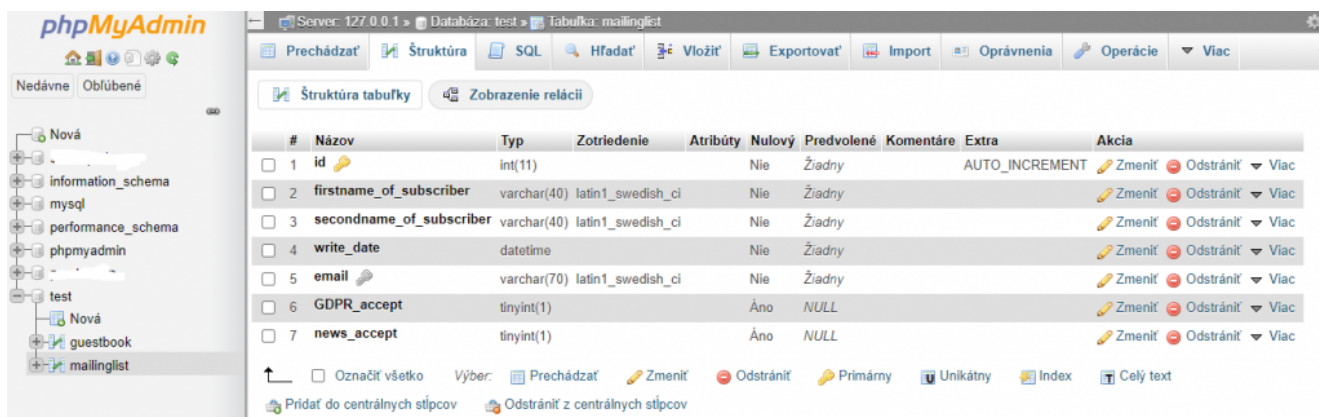
Before preparation of php code for our subscription page, we must do some consideration about data that will be stored from users subscribing into mailinglist.

## Establishment of database table

In our mailinglist database table will hold info about:

- first name of subscriber
- lastname of subscriber
- current date of subscription (now() function produce current timestamp)
- e-mail of subscriber – UNIQUE value allowed only!!
- GDPR true/ false hold in tiny INT field
- Newsletter subscribed info – true/false hold in tiny INT field
- ID

Next picture shows structure of table mailinglist in PHPmyadmin



For simplified preparation of database table is prepared creational script createdatabase.php with content:

```

<!--
*****
**** ->
<!-- PHP code for automation of preparation databasetable for
mailinglist app ->
<!--
*****
***** ->
<!-- Vrsion: 1.0          Date: 8.9.2020 by CDesigner.eu
->

<!--
*****
***** ->

<?php // script for accessing database and first table structu
re establishment

/* Attempt MySQL server connection. Assuming you are running M
ySQL

```

```

server with (user ,admin' with password test*555) */
$dbc = mysqli_connect(„localhost“, „admin“, „test*555“, „test“
);

// Check connection
if($dbc === false){
    die(„ERROR: Could not connect to database. “ . mysqli_conn
ect_error());
}

// Attempt create table query execution
$sql = „CREATE TABLE mailinglist(
    id INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
    firstname_of_subscriber VARCHAR(40) NOT NULL,
    secondname_of_subscriber VARCHAR(40) NOT NULL,
    write_date DATETIME NOT NULL,
    email VARCHAR(70) NOT NULL UNIQUE, /* UNIQUE e-
mails enabled only as security befor sending duplicite message
s */
    /* message_text TEXT */ /* optionally add boolean fields fo
r subscription */
    GDPR_accept BOOLEAN, /* BOOLEAN value if user accepted GDP
R */
    news_accept BOOLEAN /* BOOLEAN value if user accepted new
sletter */
)“;
if(mysqli_query($dbc, $sql)){
    echo „Table created successfully.“;
} else{
    echo „ERROR: Could not able to execute $sql. “ . mysqli_er
ror($dbc);
}

// Close connection
mysqli_close($dbc);
?>

```

## Form part of php code

Our form code looks like

```
<form method="post" action="<?php echo $_SERVER[,PHP_SELF']; ?
>,">
    <div class="form-group">
        <label>Please provide Your first name:</label>
        <input type="text" onfocus="this.value='<?php ec
ho isset($_POST[,firstname']) ? $firstname : "; ?>' " name="fir
stname"
            class="form-
control" value="<?php echo isset($_POST[,firstname']) ? $first
name : ,Your Firstname'; ?>">

        <label>Please provide Your last name:</label>
        <input type="text" onfocus="this.value='<?php ec
ho isset($_POST[,firstname']) ? $lastname : "; ?>' " name="last
name"
            class="form-
control" value="<?php echo isset($_POST[,lastname']) ? $lastna
me : ,Your Lastname'; ?>">
    </div>
    <div class="form-group">
        <label>E-mail:</label>
        <input type="text" onfocus="this.value='<?php echo
isset($_POST[,email']) ? $email : ,@'; ?>' " name="email" class
="form-
control" value="<?php echo isset($_POST[,email']) ? $email : ,
@'; ?>">
    </div>

    <div class="form-group">

        <input type="checkbox" name="gdpr" class="form-
control" value="<?php echo isset($_POST[,gdpr']) ? $gdpr : ,gd
pr'; ?>">
        <label>I agree with GDPR regulations</label>

        <input type="checkbox" name="newsletter" class="fo
rm -
```

```

control" value="<?php echo isset($_POST[,newsletter']) ? $news
letter : ,newsletter'; ?>">
    <label>I subscribe to Newsletter:</label>
</div>

    <button type="submit" name="submit" class="btn btn-
warning"> Subscribe to mailinglist </button>

    <button type="submit" name="delete" class="btn btn-
danger"> Unsubscribe now </button>

    <button type="submit" name="reset" class="btn btn-
info"> Reset form </button>
<br>

```

For outputting of successful message after adding e-mail into a list is used

```

<?php //part displaying info after successful added
subscriber into a mailinglist
    if ($is_result ) {

        echo „<br> <br>„;
        echo „ <table class=\"table table-
success\"> „;
        echo „ <tr>
                                <td><h5> <em> E-
mail: </em> $email </h5> <h5> succesfully added to mailinglist
and granted these privileges </h5> „;
                                if ($gdpr == true ) { echo „<h5> GDPR
accepted </h5>„; } ; //if GDPR rights granted
                                if ($newsletter == true ) { echo „<h5>
Newsletter subscribed </h5>„; } ; //if subscribed to a new
letter

        echo “    <td>    </tr> „;
        echo “ </table> „;

```

```
        //echo " <input type="text" id="result_fie  
ld" name="result_field" value="$result" > <br>" ;  
    } ;  
    ?>
```

## Main script on index.php page

Main script is located on upper part of index.php page. This code is responsible for obtaining POST submitted data (self submission). Next make validation and injection preventing by simple htmlspecialchars(). Only valid e-mails can pass to next stage.

Next parts make solution for database subscriber inserting, deletion of current unwanted subscriber (at time of current opened subscribe form, user can make quick remove decision).

If user will remove next time, must contact admin or in future code will be expanded about separate page for removing by e-mail but without listening table of currently subscribed user (GDPR data lost prevention). But keep in mind our apps are only for demonstration, before proper usage must be security hardened in a much deeper way (use it on your own risk).

<?php

```

    // two variables for message and styling of the message with bootstrap
    $msg = "";
    $msgClass = "";

    // default values of auxiliary variables
    $email = "";
    $firstname = "";
    $lastname = "";
    $gdpr = ,0';
    $newsletter = ,0';
    $is_result = false; //before hitting submit button no result is available

    // Control if data was submitted
    if(filter_has_var(INPUT_POST, ,submit')){
        // Data obtained from $_postmessage are assigned to local variables
        $firstname = htmlspecialchars($_POST[,firstname']);
        $lastname = htmlspecialchars($_POST[,lastname']);
        $email = htmlspecialchars($_POST[,email']);
        $gdpr = isset($_POST[,gdpr']); // checkbox doesnot send post data, they must be checked for its set state !!!
        $newsletter = isset($_POST[,newsletter']);

        // Controll if all required fields was written
        if(!empty($email) && !empty($firstname) && !empty($lastname)){
            // If check passed – all needed fields are written
            // Check if E-mail is valid
            if(filter_var($email, FILTER_VALIDATE_EMAIL) === false){
                // E-mail is not valid
                $msg = ,Please use a valid email';
                $msgClass = ,alert-danger';
            } else {
                // E-mail is ok
                $is_result = true;
                $toEmail = ,ciljak@localhost.org'; //!!! e-mail address to send to – change for your needs!!!
            }
        }
    }

```

```

$subject = ,Guestbook entry from ,.$firstname.
' ,.$lastname;

$body = ,<h2>To your Guestbook submitted:</h2>
      <h4>Name</h4><p>'.$firstname.'</p>
      <h4>Email</h4><p>'.$email.'</p>
      ,;

// Email Headers
$headers = „MIME-Version: 1.0” .“\r\n”;
           $headers .="Content-
Type:text/html;charset=UTF-8” . „\r\n”;

// Additional Headers
$headers .= „From: “ . $lastname. „<„.$email.“>
“ . „\r\n”;

// insert into databse

// make database connection
$dbc = mysqli_connect(„localhost“, „ad
min“, „test*555“, „test“);

// Check connection
if($dbc === false){
    die(„ERROR: Could not connect
to database. “ . mysqli_connect_error());
}

// INSERT new entry

$sql = „INSERT INTO mailinglist (first
name_of_subscriber, secondname_of_subscriber, write_date, emai
l, GDPR_accept, news_accept)
VALUES (,$firstname,, ,.$lastname,, now
() , ,.$email, , ,.$gdpr, , ,.$newsletter,);

if(mysqli_query($dbc, $sql)){

    $msg = ,new subscriber'.$email.' s
uccesfully added';

    $msgClass = ,alert-success';
} else{

```



```

        $msg = „ERROR: Could not able to e
xecute $sql. “ . mysqli_error($dbc);
        $msgClass = ,alert-danger‘;
    }

    // end connection
    mysqli_close($dbc);
    if(mail($toEmail, $subject, $body, $headers)){
        // Email Sent
        $msg .= ,Your postmessage was sucessfully
send via e-mail‘;
        $msgClass = ,alert-success‘;
    } else {
        // Failed
        $msg = ,Your postmessage was not sucessful
ly send via e-mail‘;
        $msgClass = ,alert-danger‘;
    }
}
} else {
    // Failed – if not all fields are fullfiled
    $msg = ,Please fill in all contactform fields‘;
    $msgClass = ,alert-
danger‘; // bootstrap format for allert message with red color
}

};

// if delete button clicked
if(filter_has_var(INPUT_POST, ,delete‘)){
    if(filter_var($email, FILTER_VALIDATE_EMAIL) === false
){
        // E-mail is not walid
        $msg = ,Please use a valid email‘;
        $msgClass = ,alert-danger‘;
    } else {

        $msg = ,Delete last mesage hit‘;
        $msgClass = ,alert-
danger‘; // bootstrap format for allert message with red color

```

```

// delete from database

// make database connection
$dbc = mysqli_connect(„localhost“, „admin“, „test*
555“, „test“);

// Check connection
if($dbc === false){
    die(„ERROR: Could not connect to database.
“ . mysqli_connect_error());
}

// DELETE last input by matching your written mess
age

// obtain message string for comparison

$email = htmlspecialchars($_POST[„email“]);
$postmessage = trim($postmessage);

// create DELETE query
$sql = „DELETE FROM mailinglist WHERE email = „
.„,$email,“ ;

if(mysqli_query($dbc, $sql)){

    $msg = „Last subscriber successfully remove
d from database.“;
    $msgClass = „alert-success“;

    // clear entry fields after successfull del
eting from database
    $firstname = „;
    $lastname = „;
    $email = „;
    $gdpr = false;
    $newsletter = false;
} else{

    $msg = „ERROR: Could not able to execute $
sql.“ . mysqli_error($dbc);
    $msgClass = „alert-danger“;
}

```

```
        // end connection
        mysqli_close($dbc);
    }

};

// if reset button clicked
if(filter_has_var(INPUT_POST, 'reset')){
    $msg = "";
    $msgClass = ""; // bootstrap format for alert message
with red color
    $firstname = "";
    $lastname = "";
    $email = "";
    $gdpr = false;
    $newsletter = false;
};

?>
```

Current version of mailingapp can be obtained from github [here](#).