

*Website's file system*

Root folder 'htdocs' consists of the following folders and PHP files:

- The ‘Blocks’ folder contains code for frequently used HTML elements, so whenever a program needs that element, it can simply copy it into the webpage using the ‘require’ statement. As a result, the same code is not repeated on multiple pages, and code redundancy is avoided. ‘header.php’ file contains code for the website’s navigation menu bar, which is needed on website’s every webpage.
- The ‘css’ folder contains style sheets, which are used to format the HTML elements of the website.
- The ‘img’ folder contains images used on the web page.
- The ‘uploads’ folder contains files that users upload and download.

```
<meta charset="utf-8">
<!-- setting character encoding to UTF-8 -->
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<!-- setting scaling parameters of webpage -->
<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css">
<!-- connecting bootstrap 5 through jsDelivr (CDN) -->
<link rel="stylesheet" type="text/css" href="css/style.css.css">
<!-- connecting style.css.css stylesheet-->
<script src="https://ajax.googleapis.com/ajax/libs/jquery/3.5.1/jquery.min.js"></script>
<!-- connecting jQuery library -->
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.js"></script>
<!-- connecting bootstrap 5 through jsDelivr (CDN) -->
```

*Picture 4.1 (config.php code)*

‘config.php’ sets the web page’s configuration (connected stylesheets, libraries, metadata, etc.). These settings are common for every web page and therefore specified in the separate file that can be ‘required’ whenever needed. This is done to avoid code redundancy. Also, any additional configuration changes can easily be implemented through editing only ‘config.php.’ Changes to the ‘config.php’ file will automatically be applied to all files where ‘config.php’ was ‘required.’ For example, this can be used when the updated version of Bootstrap 5 is released. In this case, the developer can change one line of code (specifying new URL) instead of manually redacting more than 30 of them if he wants web pages to access new features of the recently released version of Bootstrap 5.

```
<?php

$servername = "localhost";
$username = "root";
$password = "root";
$databasename = "mun";
$connection = mysqli_connect($servername, $username, $password, $databasename);
//establishing connection with the required database ('mun')

?>
```

*Picture 4.2 (databaseconnection.php code)*

‘databaseconnection.php’ connects the web page where it was ‘required’ with the database ‘mun.’ This is done to access data in the database and enable operations with that data using SQL statements. For example, after establishing the connection between the web page and the database, data from the HTML input form can be inserted into the tables. Without the connection to the database, it would be impossible to store data.

- Header

The header is an essential part of the website's navigation system and must be on every page. For this reason, code for the header is located in a separate file named 'header.php,' and whenever needed, is required by the PHP expression "require" (picture 5.0). The code for header could be called by the expression "include," but this method has a disadvantage compared to the "require" expression: it does not halt the script upon failure, which can damage the system's integrity.

The header has two modes: when the user is logged in (picture 5.1) and when not logged in (picture 5.2). The differences between these modes are the presence of the <span> element and change of buttons ("Login" becomes "Log out," "Sign-up" becomes "My Profile"). There are also four links for the pages "Conference," "Important dates," "information," and "Homepage."



Picture 5.1 (when the user is not logged in)



Picture 5.2 (when the user is logged in)

Code for the “header.php”:

```

<?php session_start(); ?>
<!-- resuming existing session so that $_SESSION global variables can be accessed --&gt;

&lt;?php
    if(isset($_SESSION["username"])) === TRUE)           condition that defines which variant
    /* isset($_SESSION["username"]) will return true if user successfully logged in */
    {
        /* if user successfully Logged in, the system will display header with the following */
        echo '&lt;header class="p-3 bg-dark text-white fixed-top"&gt;
            &lt;div class="container"&gt;
                &lt;div class="d-flex flex-wrap align-items-center justify-content-center justify-content-lg-start"&gt;
                    &lt;ul class="nav col-12 col-lg-auto me-lg-auto mb-2 justify-content-center mb-md-0"&gt;
                        &lt;li&gt;&lt;a href="index.php" class="nav-link px-2 text-secondary"&gt;Homepage&lt;/a&gt;&lt;/li&gt;
                        &lt;li&gt;&lt;a href="conference.php" class="nav-link px-2 text-white"&gt;Conference&lt;/a&gt;&lt;/li&gt;
                        &lt;li&gt;&lt;a href="dates.php" class="nav-link px-2 text-white"&gt;Important dates&lt;/a&gt;&lt;/li&gt;
                        &lt;li&gt;&lt;a href="information.php" class="nav-link px-2 text-white"&gt;Information&lt;/a&gt;&lt;/li&gt;
                    &lt;/ul&gt;
                    &lt;div class="col-12 col-lg-auto mb-3 mb-lg-0 me-lg-3"&gt;
                        &lt;span&gt; Hello ' . $_SESSION["username"] . '! Your student ID is: ' . $_SESSION["id"] . '&lt;/span&gt;
                    &lt;/div&gt;
                &lt;/div&gt;
            &lt;/div&gt;
        &lt;/header&gt;';
    }
}
</pre>


Annotations on the code:



- A red arrow points to the condition if(isset($_SESSION["username"])) === TRUE) with the text "condition that defines which variant of header will be displayed".
- A red arrow points to the text $_SESSION["username"] . '! Your student ID is: ' . $_SESSION["id"] . ' in the <span> tag with the text "Indicator of the successful user authorization".
- A red box highlights the entire <div class="col-12 col-lg-auto mb-3 mb-lg-0 me-lg-3"> block.
- A red arrow points to the onclick="location.href='sessionend.php'" attribute with the text "'onclick' event that causes execution of code in 'sessionend.php' or 'student_profile.php' file when the user clicks on the button".

```

```

else
/* the standard variant of the header (when the user is not logged in *)
{

echo '<header class="p-3 bg-dark text-white fixed-top">
<div class="container">
<div class="d-flex flex-wrap align-items-center justify-content-center justify-content-lg-start">

<ul class="nav col-12 col-lg-auto me-lg-auto mb-2 justify-content-center mb-md-0">
    <li><a href="index.php" class="nav-link px-2 text-secondary">Homepage</a></li>
    <li><a href="conference.php" class="nav-link px-2 text-white">Conference</a></li>
    <li><a href="dates.php" class="nav-link px-2 text-white">Important dates</a></li>
    <li><a href="information.php" class="nav-link px-2 text-white">Information</a></li>
</ul>

<div class="text-end">
    <button type="button" class="btn btn-outline-light me-2" onclick="location.href='login_form.php'.">Login</button>
    <button type="button" class="btn btn-warning" onclick="location.href='registration_form.php'.">Sign-up</button>
</div>
</div>
</header>';

}

```

?>

*Picture 4.3 (header.php code)*

Links to main pages (Homepage, Conference, Important Dates, Information) remain unchanged in both variants of headers (whether the user successfully logged in or not). This is because the user must have access to the main contents of the web page regardless of 'logged in' status (according to authorization levels discussed in design specifications section). After successful verification, users are authorized to get access to their profiles by clicking the "My Profile" button, which redirects them to the "student\_profile.php" page, where all of their details are located and can be modified. Otherwise, if logging in is unsuccessful, users do not get access to the "My Profile" button and hence are not authorized to see the contents of that page. Also, if the user clicks the 'Log out' button, the code of the 'sessionend.php' file will be executed, destroying the session and all \$\_SESSION global variables (so the 'not logged in' version of the header will be displayed and user will no longer be authorized to get access to their profiles and modify them). The program's choice of header variant is only dependent on whether the \$\_SESSION variable is set or not. Because of this feature, the correct variant of the header will be displayed even if the user decides to refresh the web page.

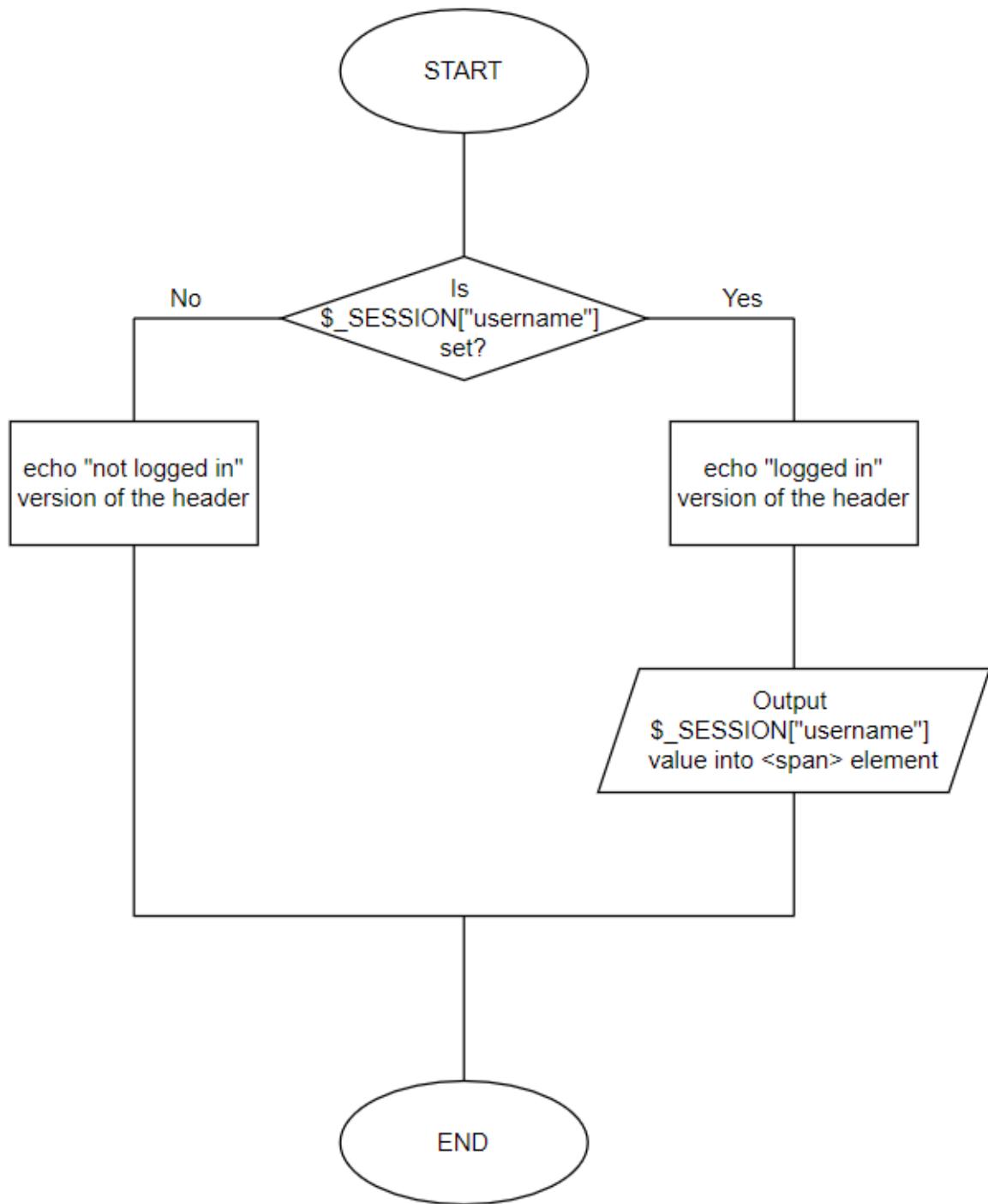
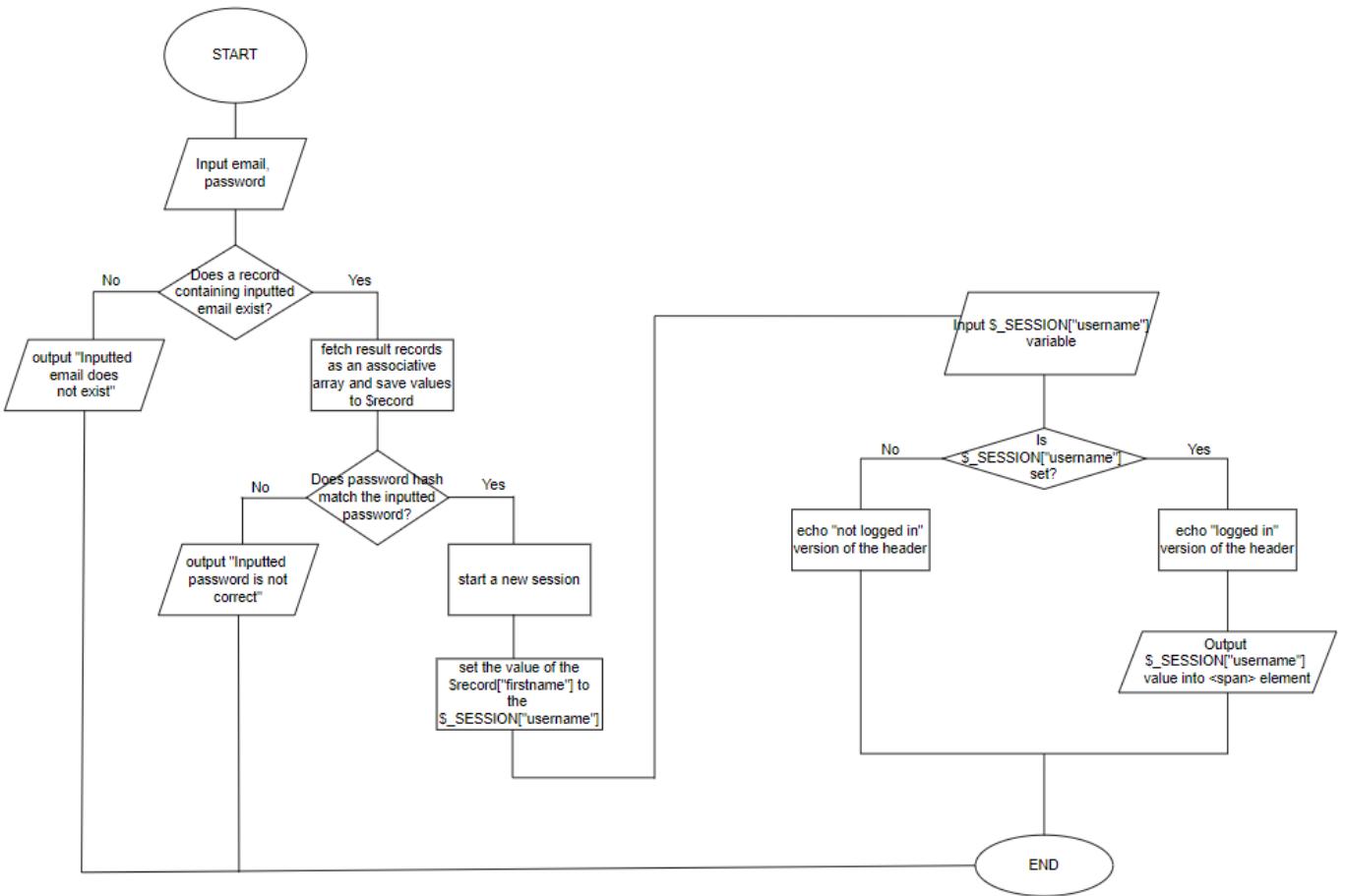


Figure 321421 (flowchart for header.php)



*Flowchart explaining the relation between login\_form.php and header.php*

```
<!DOCTYPE html>
<html>
<head>
| <title>Registration form</title>
<?php require "config.php"?>
<!-- including configuration --&gt;

&lt;/head&gt;
&lt;body&gt;

&lt;?php require "blocks/header.php" ?&gt;
<!-- including code of 'header.php' --&gt;
&lt;?php require "databaseconnection.php"; ?&gt;
<!-- establishing connection with the database --&gt;

&lt;div class="container text-center" style="margin-top: 100px"&gt; &lt;h1&gt; Registration form &lt;/h1&gt; &lt;/div&gt;
&lt;hr class="horline1"&gt;

&lt;div class="d-flex justify-content-center"&gt;
&lt;div class="col-6"&gt;
&lt;div class="container px-40 my-5"&gt;
&lt;form id="registrationForm" action="#" method="post"&gt;
    &lt;!-- action='#' means that once the form is submitted, the data will be sent to the
        current page (registration.php); method='post' means that the data will be sent
        using the "POST" method, which is more secure and has no limitations of data size compared
        to the "GET" method --&gt;
    &lt;div class="mb-3"&gt;
        &lt;label class="form-label" for="firstName"&gt;First name&lt;/label&gt;
        &lt;input class="form-control" name="firstname" type="text" placeholder="First name"&gt;
    &lt;/div&gt;
    &lt;div class="mb-3"&gt;
        &lt;label class="form-label" for="lastName"&gt;Last name&lt;/label&gt;
        &lt;input class="form-control" name="lastname" type="text" placeholder="Last name"&gt;
    &lt;/div&gt;

    &lt;div class="mb-3"&gt;
        &lt;label class="form-label" for="emailAddress"&gt;Email Address&lt;/label&gt;
        &lt;input class="form-control" name="email" type="email" placeholder="Email Address"&gt;
    &lt;/div&gt;
    &lt;div class="mb-3"&gt;
        &lt;label class="form-label" for="grade"&gt;Grade&lt;/label&gt;
        &lt;select class="form-select" name="grade" aria-label="Grade"&gt;
            &lt;option value="7"&gt;7&lt;/option&gt;
            &lt;option value="8"&gt;8&lt;/option&gt;
            &lt;option value="9"&gt;9&lt;/option&gt;
            &lt;option value="10"&gt;10&lt;/option&gt;
            &lt;option value="11"&gt;11&lt;/option&gt;
            &lt;option value="12"&gt;12&lt;/option&gt;
        &lt;/select&gt;
    &lt;/div&gt;
    &lt;div class="mb-3"&gt;
        &lt;label class="form-label d-block"&gt;Preferrable language of the elective course&lt;/label&gt;
        &lt;div class="form-check form-check-inline"&gt;
            &lt;input class="form-check-input" type="checkbox" name="preferrableLanguageEnglish"
                value="English"&gt;
            &lt;label class="form-check-label" for="english"&gt;English&lt;/label&gt;
        &lt;/div&gt;
        &lt;div class="form-check form-check-inline"&gt;
            &lt;input class="form-check-input" type="checkbox" name="preferrableLanguageRussian"
                value="Russian"&gt;
            &lt;label class="form-check-label" for="russian"&gt;Russian&lt;/label&gt;
        &lt;/div&gt;
    &lt;/div&gt;
&lt;/div&gt;
&lt;/div&gt;</pre>
```

```

        value="Russian">
      <label class="form-check-label" for="russian">Russian</label>
    </div>
    <div class="form-check form-check-inline">
      <input class="form-check-input" type="checkbox" name="preferrableLanguageKazakh"
      value="Kazakh">
      <label class="form-check-label" for="kazakh">Kazakh</label>
    </div>
  </div>
  <div class="mb-3">
    <label class="form-label" for="motive">Why do you want to enter this elective course?</label>
    <textarea class="form-control" name="motive" type="text" placeholder="Why do you want to
    enter this elective course?" style="height: 10rem;"></textarea>
  </div>
  <div class="mb-3">
    <label class="form-label d-block">Do you study at NIS?</label>
    <div class="form-check form-check-inline">
      <input class="form-check-input" id="yes" type="radio" name="studyNIS" value="yes">
      <label class="form-check-label" for="yes">Yes</label>
    </div>
    <div class="form-check form-check-inline">
      <input class="form-check-input" id="no" type="radio" name="studyNIS" value="no">
      <label class="form-check-label" for="no">No</label>
    </div>
  </div>
  <div class="mb-3">
    <label class="form-label" for="password">Password</label>
    <input class="form-control" name="password" type="password" placeholder="Password">
  </div>
  <div class="mb-3">
    <label class="form-label" for="passwordRepeat">Repeat Password</label>
    <input class="form-control" name="passwordRepeat" type="password" placeholder="Repeat
    Password">
  </div>
  <div class="d-grid">

    <button class="btn btn-warning btn-lg" id="submitButton" type="submit">Submit</button>
  </div>
</form>
</div>
</div>
</div>

<div id="divmistakesregform">
  <p id="paragraphmistakeregistrationform" style="display: none;"></p>
  <!-- As default value, the 'display' parameter of the 'style' attribute will be equal to 'none.' Once the user submits the form, the program will check whether the submitted data is valid or not. If it is not valid, mistakes will be displayed in this paragraph, and the 'display' parameter of the 'style' attribute will change to 'block,' so the user can see it. -->
</div>

<?php

function validation1($testdata)
{
  $testdata = trim($testdata); // removing whitespaces from both sides of the $testdata
  $testdata = stripslashes($testdata); // removing backslashes from the $testdata
  return $testdata; //returning result of the function
}

if($_SERVER["REQUEST_METHOD"] == "POST") // checking whether the form was submitted
{

$firstnameError = $lastnameError = $emailError = $passwordError1 = $passwordError2 = $passwordError3
  = $passwordError4 = $passwordError5 = "";
//resetting 'error variables' in case they saved values from the previous form submission

if(empty($_POST["firstname"]) == TRUE) //checking if the field is empty
{
  $firstnameError = "First name is required"; //saving error if the field is empty
}

```

```

    }
    if(empty($_POST["lastname"]) == TRUE) //checking if the field is empty
    {
        $lastnameError = "Last name is required"; //saving error if the field is empty
    }
    if(empty($_POST["email"]) == TRUE || filter_var($_POST["email"], FILTER_VALIDATE_EMAIL) == FALSE)
        //checking if the field is empty or if the inputter email is a valid email address
    {
        $emailError = "Valid email is required";
    }
else
{
    //cleaning up data using validation1() function
    $firstname = validation1($_POST["firstname"]);
    $lastname = validation1($_POST["lastname"]);
    $email = validation1($_POST["email"]);
}
//saving valid data from the submit form into the php variables
$studyNIScheck = $_POST["studyNIS"];
$grade = $_POST["grade"];
$preferrableLanguage1 = $_POST["preferrableLanguageEnglish"];
$preferrableLanguage2 = $_POST["preferrableLanguageRussian"];
$preferrableLanguage3 = $_POST["preferrableLanguageKazakh"];
$motive = $_POST["motive"];
$password = trim($_POST["password"]); //deleting spaces before and after the password

$patternCapitalLetters = "/[A-Z]/"; //determining regEx patterns
$patternSpecialCharacters = "/![@#$%^&*]/";
$patternNumbers = "/[0-9]/";

if(mb_strlen($password) < 8)
// determining if the exact number of characters (according to the UTF-8) is Less than 8
{
    $passwordError1 = "Password must contain at least 8 characters";
    //saving error f the exact number of characters (according to the UTF-8) is Less than 8
}

if(preg_match($patternCapitalLetters, $password) === 0)
    // checking if the inputted password contains at Least 1 capital letter
{
    $passwordError2 = "Password must contain at least 1 capital letter";
}

if(preg_match($patternSpecialCharacters, $password) === 0)
    //checking if the inputted password contains at Least 1 special character
{
    $passwordError3 = "Password must contain at least 1 special character";
}

if(preg_match($patternNumbers, $password) === 0)
    //checking if the inputted password contains at Least 1 number
{
    $passwordError4 = "Password must contain at least 1 digit";
}

if($_POST["password"] != $_POST["passwordRepeat"])
//password verification
{
    $passwordError5 = "Passwords do not match";
}

if($passwordError1 == "" && $passwordError2 == "" && $passwordError3 == "" && $passwordError4 == "" &
& $passwordError5 == "" && $emailError == "" && $firstnameError == "" && $lastnameError == "")
//checking if there are no errors (if all submitted data is valid and ready to be inserted into
the database)
{
    $passwordhash = password_hash($_POST["password"], PASSWORD_DEFAULT);
    //creates a password hash that is then stored in the database instead of the password itself
    to keep data secure
    $thirdquery = "INSERT INTO registeredusers (firstname, lastname, email, grade,
    preferableLanguage, motivation, studyNIS, passwordhash)
VALUES ('$firstname', '$lastname', '$email', '$grade', '$preferrableLanguage1 $'

```

```

preferrableLanguage2 $preferrableLanguage3', '$motive', '$studyNIScheck', '$passwordhash'
");
//inserting data from submit form into the table 'registeredusers'

if ($connection->query($thirdquery) === TRUE)
{
    echo "<script> alert('New account has been registered successfully') </script>";
    //implementing JavaScript to display an alert box after successful account
    registration
    $firstname = $lastname = $email = $grade = $preferrableLanguage1 = $
        preferableLanguage2 = $preferrableLanguage3 = $motive = $studyNIScheck = $
        passwordhash = "";
    //resetting all variables to avoid the error of inputting the same data twice
    echo "<script> window.location.replace('login_form.php') </script>";
    //implementing JavaScript to redirect the user to the Login page

}
else
{
    echo "Error: " . $thirdquery . "<br>" . $connection->error;
    //output error
}
}
else
//if submitted data is invalid
{
    echo "<script>
document.getElementById('paragraphmistakeregistrationform').style.display = 'block';
</script>";
    //implementing JavaScript to change the 'display' parameter of the 'style' attribute to
    'block' so that the user can see the paragraph where errors will be outputted

$errors = array(
    'Main fields' => array($firstnameError, $lastnameError, $emailError),
    'Password' => array($passwordError1, $passwordError2, $passwordError3, $passwordError4, $
        passwordError5)
);
//creating a two-dimensional associative array that is used to sort outputted errors by
their type
//named keys of these subarrays are used to name the list of errors

foreach($errors as $key => $errorType)
//this Loop allows to iterate over $errors array and assign array's key to the $key variable
//later $key variable (array's named key) is used to group errors by their type, so
firstname, lastname and email errors are displayed first and then password errors
{
    if(in_array("First name is required", $errorType) || in_array("Last name is required", $errorType) || in_array("Valid email is required", $errorType) || in_array("Password must contain at least 8 characters", $errorType) || in_array("Password must contain at least 1 capital letter", $errorType) || in_array("Password must contain at least 8 characters", $errorType) || in_array("Password must contain at least 1 capital letter", $errorType) || in_array("Password must contain at least 1 special character", $errorType) || in_array("Password must contain at least 1 digit", $errorType) || in_array("Пароли не совпадают", $errorType))
    //if there are any errors in the $errorType array (which is one of the subarrays of the
    $errors array)
    {
        echo "<script>
document.getElementById('paragraphmistakeregistrationform').innerHTML +='" . $key . "
';

</script>";
        //implementing JavaScript to add to the paragraph with id
        'paragraphmistakeregistrationform' name of the key of the associative array where an
        error was detected
        echo "<script>
document.getElementById('paragraphmistakeregistrationform').innerHTML +=<ul>'";
        //implementing JavaScript to start the unordered item list in the paragraph
        foreach($errorType as $error)
        //nested loops
        //iterating over $errorType array (one of the subarrays of the $errors array) to

```

```

access its elements
if($error != "")
//if error exists
{
    echo "<script>
        document.getElementById('paragraphmistakeregistrationform').innerHTML
            +='<li>" . $error . "</li>
        </script>";
//implementing JavaScript to add to the paragraph error as the list item
}
echo "<script>
document.getElementById('paragraphmistakeregistrationform').innerHTML +='</ul>'</script>";
//implementing JavaScript to close the unordered item list in the paragraph
if($key == 'Main fields')
{
    echo "<script>
        document.getElementById('paragraphmistakeregistrationform').innerHTML +='<br>
    </script>";
}
//this conditional operator is needed to add a Line break between the 'Main fields'
and 'Password' error groups
}

}

?>

</body>
</html>

```

*Picture 4.4 (registration.php code)*

PHP Regular Expressions (regEx) were used as a validation tool on the registration page. Regular expressions form patterns that the program needs to find in the inputted data for it to be inserted into the database. If that pattern was not found, the message about failed validation and the need for data resubmission is displayed in the separate HTML element (paragraph). A JavaScript alert box was considered as a more convenient way to display those errors, but the size of its contents was limited, so only a part of the errors could be displayed, which does not match with the program requirements.

It is problematic to provide users with the interactive interface using only PHP, as it is a server-side programming language and requires client's HTTP requests for any additional code to be executed. JavaScript is a client-side programming language, which means that all the JavaScript code runs in the browser; therefore, users can use it to manipulate the contents of a webpage without sending any requests to the server. In the 'registration.php' page, JavaScript was implemented to:

- hide and display the paragraph depending on whether there are validation failures;
- create item list;
- add new items to the item list;
- add a line break between two item lists;
- display message about successful registration using the alert box.

Nested 'foreach' loops were used to access every element of the two-dimensional associative array named '\$errors'. The reasoning behind choosing 'foreach' for this purpose lies behind its feature to get the named key of each element using '\$key => \$errorType' syntax. Because of this feature, the program can group errors into visually appealing item lists, each with its heading (Picture 4.6).

## Registration form

First name

Last name

Email Address

Grade

Preferrable language of the elective course

 English  Russian  Kazakh

Why do you want to enter this elective course?

Do you study at NIS?

 Yes  No

Password

Repeat Password

Picture 4.5 (registration page before submitting form with invalid data)

Password

Repeat Password

Main fields

- First name is required
- Last name is required
- Valid email is required

Grouping errors into two groups by their type

Password

- Password must contain at least 8 characters
- Password must contain at least 1 capital letter
- Password must contain at least 1 special character
- Password must contain at least 1 digit
- Passwords do not match

Line break between two item lists

Paragraph

Picture 4.6 (registration page after submitting form with invalid data)

The next flowchart shows an example of how it works with a password

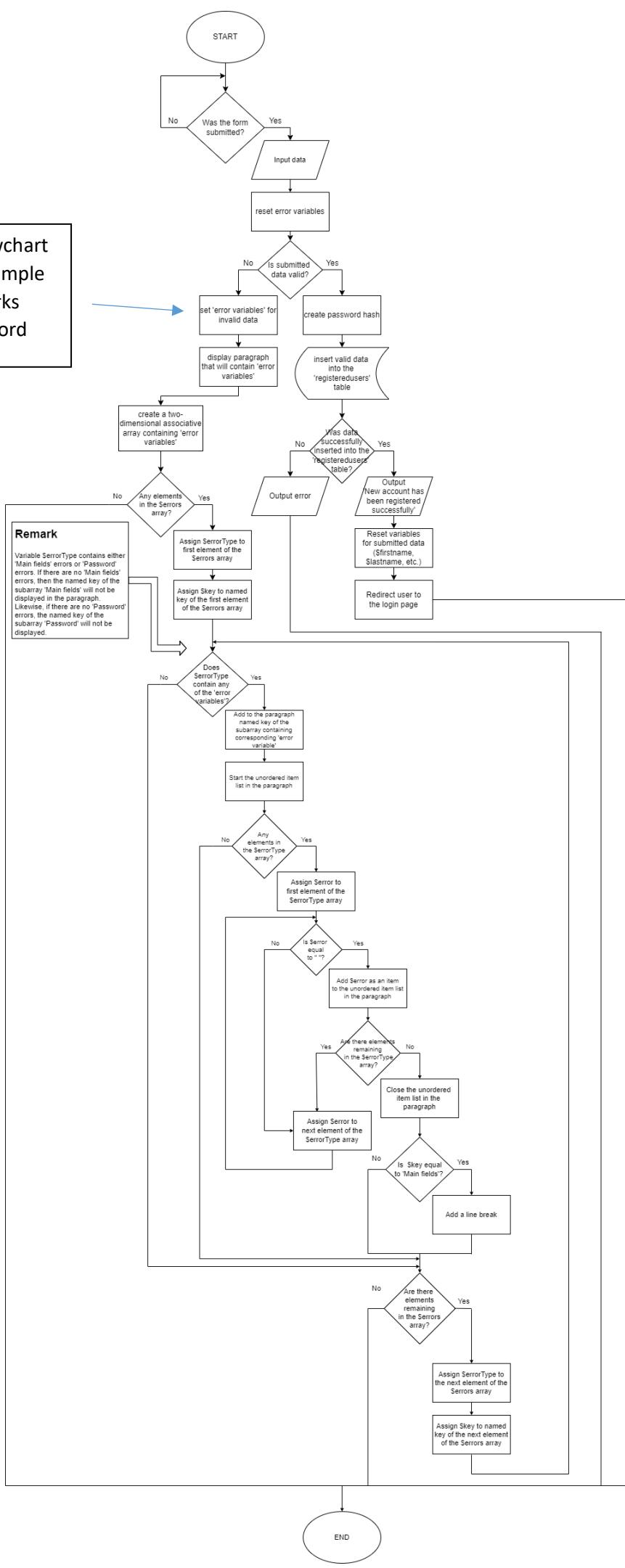
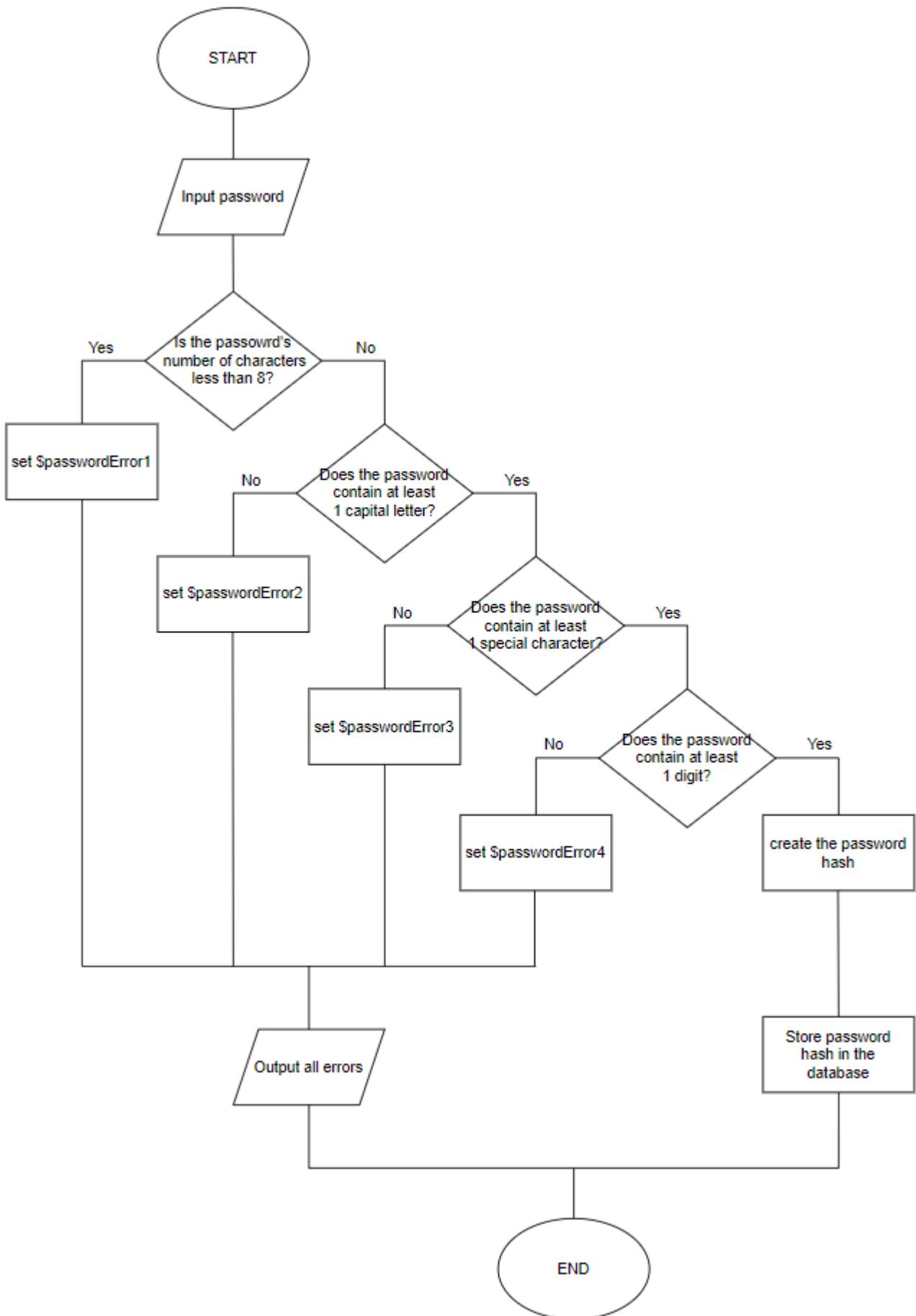


Figure 4.7 (flowchart for 'registration.php')



Picture 5.22 (flowchart explaining PHP code validation)

```

<!DOCTYPE html>
<html>
<head>
    <title>Conference registration page</title>
<?php require "config.php"?>
<!-- including configuration --&gt;
&lt;/head&gt;
&lt;body&gt;
&lt;?php require "databaseconnection.php" ?&gt;
<!-- establishing connection with the database --&gt;
&lt;?php require "blocks/header.php" ?&gt;
<!-- including code of 'header.php' --&gt;

&lt;form id="confregForm" action="#" method="post"&gt;
    <!-- action='#' means that once the form is submitted, the data will be sent to the
    current page (conference_registration.php); method='post' means that the data will be sent
    using the "POST" method, which is more secure and has no limitations of data size compared
    to the "GET" method --&gt;
        &lt;div class="container" style="margin-top: 100px"&gt;
            &lt;div class="row"&gt;
                &lt;div class="col-md-12"&gt;
                    &lt;h2&gt;Форма регистрации конференции&lt;/h2&gt;
                &lt;/div&gt;
            &lt;/div&gt;
            &lt;div class="row"&gt;
                &lt;div class="col-md-6"&gt;
                    &lt;label class="form-label"&gt;Тема конференции&lt;/label&gt;
                    &lt;input class="form-control forms1" type="text" name="conftopic" required&gt;
                    &lt;label class="form-label"&gt;Комитет&lt;/label&gt;
                    &lt;select class="form-select forms1" name="committee" required&gt;
                        &lt;?php
                            $viborkacomitetov = "SELECT committee FROM committees2 WHERE
                                is_registered != '1'";
                            //The value "1" in the column "is_registered" corresponding to a
                            particular committee in the column "committee" means that a conference
                            with this committee already exists. According to the customer's
                            specifications, the same committee cannot be used to create two or more
                            conferences at any given time. The above condition leaves a selection of
                            only those committees that are not participating in any conference at
                            the time of query execution
                            $result = $connection-&gt;query($viborkacomitetov);
                            //saving the results of the query in the $result variable

                            if ($result-&gt;num_rows &gt; 0)
                            //if there is at least one committee that is not participating in any
                            conference at the time of query execution
                            {
                                while($state = $result-&gt;fetch_assoc())
                                    //creating associative array with the results of the
                                    $viborkacomitetov query and going through each row of the result one
                                    by one using the 'while' Loop
                                {
                                    echo "&lt;option value='" . $state["committee"] . "'&gt;" . $state["committee"] . "&lt;/option&gt;";
                                    //there will be as many options as the number of 'while' Loop
                                    iterations, that is, how many committees are there that satisfy the
                                    conditions of the $viborkacomitetov query
                                    // $state["committee"] variable has the value of one committee
                                    available for selection
                                    //when the form is submitted, the value stored in the "value"
                                    attribute is sent
                                    //for this reason, the $state["committee"] variable is used twice:
                                    once to display the value of the available committee to the user,
                                    and the second time to send the value of the selected option along
                                    with the form
                                }
                            }
                        ?&gt;
                    &lt;/select&gt;
                    &lt;label class="form-label"&gt;Дата проведения&lt;/label&gt;
                    &lt;input class="form-control forms1" type="date" name="confdate" required&gt;
                &lt;/div&gt;
            &lt;/div&gt;
        &lt;/div&gt;
    &lt;/form&gt;
</pre>

```

```

<div class="col-md-6">
    <label class="form-label">Язык проведения конференции</label>
    <select class="form-select forms1" name="conflanguage">
        <option value="English" selected="">Английский</option>
        <option value="Russian">Русский</option>
        <option value="Kazakh">Казахский</option>
    </select>
    <label class="form-label">Допустимое количество участников</label>
    <input class="form-control forms1" type="number" name="confSeatsnumber" required>
    <label class="form-label">Требовать у участников position paper?</label>
    <div class="row">
        <div class="col-2">
            <div class="form-check forms1">
                <input class="form-check-input" type="radio" id="formCheck-1" name="positionpaperkerek" value="1" required>
                <!--
                    When the user selects "yes", the integer value "1" is sent to the database. When the user selects "no", the integer value "0" is sent to the database. This is done to use memory effectively, since the "tinyint(1)" data type used takes up less memory than the "varchar(3)" data type (which would be used if the program were to send to the database "yes" and "no" values).
                -->
                <label class="form-check-label" for="formCheck-1">Да</label>
            </div>
        </div>
        <div class="col-2">
            <div class="form-check forms1">
                <input class="form-check-input" type="radio" id="formCheck-2" name="positionpaperkerek" value="0" required>
                <label class="form-check-label" for="formCheck-2">Нет</label>
            </div>
        </div>
    </div>
</div>

<div class="row" id="dobavit">
    <div class="col-3">
        <label class="col-form-label" data-bs-toggle="tooltip" data-bss-tooltip="" title="" data-bs-original-title="Будет отображаться у всех участников">Хотите добавить примечание?</label>
    </div>
    <div class="col-1 d-lg-flex" style="margin-top: 10px">
        <div class="form-check">
            <input class="form-check-input" type="radio" id="formCheck-3" name="primechaniekerek" onclick="showtextarea('primechanie')">
            <!-- When user clicks on this radio button, the JavaScript function "showtextarea()" is called (written at the end of the code). The value "primechanie" is used as a parameter to this function. This parameter is an ID of the HTML element that needs to be displayed. In this case, "primechanie" is the ID of the input form, using which teacher can add additional information.
            -->
            <label class="form-check-label" for="formCheck-3">Да</label>
        </div>
    </div>
    <div class="col-1 d-lg-flex" style="margin-top: 10px">
        <div class="form-check">
            <input class="form-check-input" type="radio" id="formCheck-4" name="primechaniekerek" onclick="hidetextarea('primechanie')">
            <!-- When user clicks on this radio button, the JavaScript function "hidetextarea()" is called (written at the end of the code). The value "primechanie" is used as a parameter to this function. This parameter is an ID of the HTML element that needs to be hid. In this case, "primechanie" is the ID of the input form, using which teacher can add additional information.
            -->
            <label class="form-check-label" for="formCheck-4">Нет</label>
        </div>
    </div>
</div>
<input class="form-control" id="primechanie" style="display: none" name="remark">
<button class="btn btn-warning" type="submit" style="margin-top: 10px">Зарегистрировать</button>

```

```

        </div>
</form>

<?php

//saving data from the submit form into the php variables
$conftopic = $_POST["conftopic"];
$committee = $_POST["committee"];
$date = $_POST["confdate"];
$language = $_POST["conflanguage"];
$maxseats = $_POST["confSeatsnumber"];
$ispaperrequired = $_POST["positionpaperkerek"];
$remark = $_POST["remark"];

$confinput = "INSERT INTO registeredconferences (conftopic, committee, confdate, language,
participantsnumber, ppisrequired, primechanie) VALUES ('$conftopic', '$committee', '$date', '$
language', '$maxseats', '$ispaperrequired', '$remark')";
//inserting data from submit form (data about registered conference) into the table
'registeredconferences'

if ($connection->query($confinput) === TRUE)
//checking if the query was successfully executed
{
    $confregupdate = "UPDATE committees2 SET is_registered='1' WHERE committee='$committee'";
    //the variable $committee is the committee that the user used to register a new conference. To
    ensure that the same committee will not be selected when registering next conference, the
    value of the record (for the committee = $committee) in the "is_registered" field is changed
    to "1".
    if($connection->query($confregupdate))
    {
        echo "<script> alert('New conference has been registered successfully') </script>";
        //implementing JavaScript to display success message
    }
    else
    {
        echo "<script> alert('Error:' . $connection->error . '') </script>";
        //implementing JavaScript to display failure message
    }
}

?>

<script type="text/javascript">
function showtextarea(textarea) {
    document.getElementById(textarea).style.display = 'block';
    //using JavaScript HTML DOM to get access to the element with the ID = parameter of the
    function
    //style.display is the HTML element's property that is responsible for whether the user
    can or cannot see the element
    //if the value of the 'style.display' property is set to 'block', then the user can see the
    HTML element
}
function hidetextarea(textarea) {
    document.getElementById(textarea).style.display = 'none';
    //if the value of the 'style.display' property is set to 'none', then the user cannot see
    the HTML element
}
</script>
</body>
</html>

```

Picture 4.8(code for 'conference\_registration.php')

'conference\_registration.php' page uses Bootstrap 5 / HTML5 form validation. The advantage of this method is the compactness of the code, which fits into the HTML element tags. For example, the "required" attribute in the <input> tag indicates that the user must fill that input field on the webpage, or data will not be sent. It can be said that this attribute

performs the same task as the "empty()" PHP function. Furthermore, it is not necessary to send a request to the server to display the necessity of filling a particular field. The bootstrap class "was-validated" allows users to see which input fields are required to be filled out immediately after the webpage loads (picture 1a). In comparison, PHP validation happens only after form submission. In addition, the "type" attribute allows you to specify the pattern in which the data should be inputted. For example, "type='email'" attribute performs the same task as the filter\_var(\$\_POST["email"], FILTER\_VALIDATE\_EMAIL) function (comparing the email address entered by the user and the pattern that the same address should follow). If the inputted data is invalid, errors are displayed depending on the browser's version. Nevertheless, using HTML5/Bootstrap 5 form validation has a significant drawback: there are no customized patterns that could be used to validate the inputted data.

```

<!DOCTYPE html>
<html>
<head>
    <title></title>

    <?php require "config.php"?>
    <!-- including configuration -->
    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.5.0/font/bootstrap-icons.css">
    <!-- including Bootstrap 5 icons Library -->

</head>
<body>

<?php require "databaseconnection.php" ?>
<!-- establishing connection with the database -->
<?php require "blocks/header.php" ?>
<!-- including code of 'header.php' -->

<div style="margin-top: 100px; margin-left: 30px">
    <h1 id="activeconfheading">Активные конференции</h1>
    <ol class="text-start" id="listconfregpage" style="margin-bottom: 50px; margin-top: 30px">

<?php
$k = 0;
//declaring variable $k, which will be later used to set value for the 'name' attribute of the inputs that the
user will use to choose the country for the conference

$confregquery = "SELECT id, conftopic, committee, confdate, language, participantsnumber, ppisrequired,
    primechanie FROM registeredconferences";
//creating SQL statement to access data from the 'registeredconferences' table

$result = $connection->query($confregquery);

//saving the results of the query in the $result variable

if($result-> num_rows > 0)
//if there is at least one registered conference at the time of query execution
{
    while($conf = $result -> fetch_assoc())
        //creating an associative array with the results of the $confregquery query and going through each row of the
        result one by one using the 'while' loop
    {
        echo
        '

        <li style="margin-bottom: 50px;">
            <div id="confdiv">
                <h4>Topic: ' . $conf["conftopic"] . '</h4>
                <div class="row">
                    <div class="col">
                        <div class="row">
                            <div class="col">
                                <p>Conference id: ' . $conf["id"] . '</p>
                            </div>
                        </div>
                        <div class="row">
                            <div class="col">
                                <p>Position paper: ' ;
                                if($conf["ppisrequired"] == "1")
                                    //if the teacher indicated that "position paper" is required when registering for
                                    the conference, the value for this column will be '1' in the database.
                                    Accordingly, in the "HTML" element itself, it is necessary to display this
                                    information in words. Because of this, this conditional operator was implemented.
                                    It allows using the memory more effectively by avoiding storing string values but
                                    still displaying the needed string ('required')
                                {
                                    echo "required";
                                }
                            </div>
                        </div>
                    </div>
                </div>
            </div>
        </li>
    }
}

```

```

        }
    else
    {
        echo "not required";
    }
echo '</p>
</div>
</div>
<div class="row">
<div class="col">
    <p>Committee: ' . $conf["committee"] . '</p>
</div>
</div>
</div>
<div class="col-lg-9 offset-lg-0">
<div class="row">
<div class="col-7">
    <p>Conference language: ' . $conf["language"] . '</p>
</div>
</div>
<div class="row">
<div class="col">
    <p>Available seats: ' ;
$committeename = $conf["committee"];
//saving committee name in the new variable for easier use in SQL statement
$availableseatsquery = "SELECT * FROM committees WHERE userID != '0' AND name = '$committeename'";
//selecting all records from the 'committees' table where userID is not equal to '1' (that is, all records where userID is set) for currently considered conference (name = '$committeename')
$availableseatsqueryresult = $connection->query($availableseatsquery);
//saving the results of the query in the $availableseatsqueryresult variable
$availableseats2 = $availableseatsqueryresult-> num_rows;

//saving the number of registrations to the conference into the $availableseats2 variable
$availableseats = $conf["participantsnumber"] - $availableseats2;
//setting the value of $availableseats variable, which is equal to the total number of available seats which the teacher set at the time of conference registration ($conf["participantsnumber"]) minus the number of registrations at the time of the $availableseatsquery query execution
//currently available seats number = total seat number - number of registrations
echo $availableseats;
//displaying the currently available seat number

        echo '</p>
    </div>
</div>
<div class="row">
<div class="col">
    <p>Date: ' . $conf["confdate"] . '</p>
</div>
</div>
</div>
<div class="row">
<div class="col-6">
    <p>Примечание: ' . $conf["primechanie"] . '</p>
</div>
</div>
<div class="row">
<div class="col offset-lg-0 my-auto" id="colstyleconfregpage3">
    <form style="display: inline-block;" action="#" method="post">
        <div style="display: inline-block;">
            <div class="confregdiv" id="'. $conf["committee"] . '">
                <select class="form-select" name="'. ++$k . '" style="
                    display: inline-block;

```

```

width: 250px;
vertical-align: bottom;
margin-right: 10px;">';

$viborkastran = "SELECT countries FROM committees WHERE name = '$committeename'
AND userID = '0'";
//selecting the names of all countries which has not been chosen by users for
registration by the time of registration to the conference
$result2 = $connection->query($viborkastran);
//saving the results of the query in the $result2 variable

if ($result2->num_rows > 0)
//if there is at least one available country for registration to the
conference
{
while($country = $result2->fetch_assoc())
//creating an associative array with the results of the $viborkastran
query and going through each row of the result one by one using the
'while' Loop
{
echo "<option value=\"" . $country["countries"] . "\">" . $country["countries"]
. "</option>";
//there will be as many options as the number of 'while' loop
iterations, that is, how many countries are there that satisfy the
conditions of the $viborkastran query
//{$country["countries"]} variable has the value of one country
available for selection
//when the form is submitted, the value stored in the "value"
attribute is sent
//for this reason, the $country["countries"] variable is used twice:
once to display the value of the available country to the user and the
second time to send the value of the selected option along with the
form

}
}
echo '
</select>
<button class="btn btn-dark order-first confregbutton" name="subject"
type="submit" value=' . $conf["committee"] . '>Register</button>
</div>
</div>
</form>';
echo
'</div>
</div>
</div>
</li>
';
if($availableseats <= 0)
//if there are no more available seats at the conference
{
$tempid = $conf["committee"];
$failureicon2 = '<i class="bi bi-exclamation-circle-fill iconconfregpage2 text-warning"></i>';
//saving code for icon in the $failureicon2 variable
echo "<script> document.getElementById('{$tempid}').innerHTML ='" . $failureicon2 . "'</script>";
echo "<script> document.getElementById('{$tempid}').innerHTML += 'No available seats left!'; </script>";
;
//Each <div> block containing <select> input form and submit form button has id, which JavaScript can
use to access and modify its contents. In this code, the id of each such element was set to the
committee's name, for which that particular <div> corresponds. For example, the <div> displaying
information about a conference where a committee is 'WHO' will have id = 'WHO.' As was discussed
earlier, in this case, committee name can be considered as a unique key because it is impossible to
register new conference with the committee that is being used in the ongoing conference. So, using
that id, JavaScript code modifies the contents of that <div> if a specific condition was satisfied. In
this case, if there are no more available seats at the conference, the program will replace <select>
input form by icon and text "No available seats left!".

```

```

        }

}

$o = $_SESSION["id"];
$p = $_POST["subject"];
//name='subject' is applied to the <button> HTML element. So, whenever the button is clicked, the committee name
of the conference corresponding to that button will be saved to the $p variable, which is later used in the
$newRegistration query.

foreach ($_POST as $key => $value)
//$_POST is a super global variable that collects data after form submission in the form of 'key value' pairs (as
an associative array)
//this loop allows to iterate over $_POST array and get access to every submitted value using $value variable
//key variable specifies which input form was used to submit data (in this case, chosen country)
//in the HTML code shown above, each <select> (input form) has unique name (++$k) in the form of integer which is
set using pre-increment operator ++
//so, each <select> element after form submission sends to the $_POST superglobal variable name of the country
that user chooses to register to the conference and named key using which that name of the country can be accessed
and that equals to ++$k
{
    for($j = 1; $j<=$k; $j++)
    //because there is only $k <select> HTML elements, number of iterations must be less or equal to $k
    //this loop goes through every <select> HTML element, checking whether the data was submitted using that
    particular element
    {
        if($key == $j)
        //if form was submitted (if user successfully registered to the conference and submitted name of the
        selected country using POST method), $_POST will contain element that has named key equal to $key
        //for that particular $key => $value pair the following code will be executed:
        {
            $selectedcountry = $value; //saving the selected country value
            $newRegistration = "UPDATE committees SET userID = '$o', ConferenceID = (SELECT id FROM

                registeredconferences WHERE committee = '$p') WHERE name = '$p' AND countries = '$selectedcountry'"
            ;
            //the committee name of the conference to which user is trying to register is saved to the $p variable
            when the corresponding button is clicked
            //subquery (SELECT id FROM registeredconferences WHERE committee = '$p') was used to determine id of
            the conference to which user is trying to register
            //the program determines that the user is registered for a particular conference by checking the value
            in the "userID" field. If the value in this field is not equal to zero, then one of the users is
            already registered for the corresponding conference and country
            //the significance of this query is that when the user clicks on the button to register for a
            particular conference, the relevant data (the name of the committee and the country selected by the
            user, which are sent using attributes of <button> and <select> input forms respectively) is used to
            uniquely determine the record for which the value of the "userID" field should be changed to the ID of
            the account from which the user registers for the conference.
            if ($connection->query($newRegistration) === TRUE)
            //if the user has successfully registered to the conference
            {
                echo "<script> alert('You have successfully registered to the conference') </script>";
                //implementing JavaScript to display a message about successful registration to the conference
            }
            else
            {
                echo "Error: " . $newRegistration . "<br>" . $connection->error;
                //output error
            }
        }
    }
}
}

```

```

$newnewquery = "SELECT DISTINCT name FROM committees WHERE userID = '$o'";
//selecting committee names of the conferences to which user is registered
$result5 = $connection->query($newnewquery);
//executing the query and saving the results

if($result5-> num_rows > 0)
{
    while($result5array = $result5 -> fetch_assoc())
    {
        $h = $result5array['name'];
        //saving the committee name of the conference to which user is registered to the $h variable
        if(isset($_SESSION["id"]))
        //if user is logged in
        {
            $sucessicon = '<i class="bi bi-check2-circle iconconfregpage"></i>';
            echo "<script> document.getElementById('{$h}').innerHTML ='" . $sucessicon . "'</script>";
            echo "<script> document.getElementById('{$h}').innerHTML += 'Вы уже зарегистрированы!'; </script>";
        }
        else
        //if user is not Logged in
        {
            $failureicon = '<i class="bi bi-exclamation-circle-fill iconconfregpage2 text-warning"></i>';
            echo "<script> document.getElementById('{$h}').innerHTML ='" . $failureicon . "'</script>";
            echo "<script> document.getElementById('{$h}').innerHTML += 'Создайте аккаунт чтобы зарегистрироваться на конференцию!'; </script>";
        }
    }
}

?>

</ol>
</div>

</body>
</html>

```

## Testing.

Testing of the program is an effective method of finding logic and run-time errors in the code prior to the implementation stage. If program responds correctly to all types of inputted data (normal data, extreme data, abnormal data), the result will be the high quality user experience. Upon successful completion of all stages of testing, the program can be considered ready for implementation. Taking into account the importance of testing program from the user's perspective, it was decided to use 'black box' testing method, which consists of the following steps:

1. Form the list of website's functional specifications (which consists of functional specifications set in 'design' section and of functional specifications that were added afterwards in 'development' section)
2. Form the list of inputs designed to test website's functional specifications
3. Test program using inputs according to the website's functional specifications
4. Make a conclusion about fulfilment of website's functional specifications based on the outputs

As an addition to the 'black box' testing method, database testing was conducted. Its purpose is to ensure that, apart from being correctly displayed, data is also properly stored and retrieved.

Test №	Test objective	Test data	Test method	Expected output	Actual output
1	Check if validation works properly on the user registration page	Normal data	Filling input fields with normal data	System must display window with message about successful account registration and redirect user to the log in page	As expected
		Extreme data	Filling input fields with extreme data	System must display window with message about successful account registration and redirect user to the log in page	As expected
		Abnormal data	Filling input fields with abnormal data	System must display paragraph that contains validation errors	As expected
2	Check if after registration new account's data is inserted into the database correctly		Registering new account and checking if its data is in the database	New record containing data about newly registered account must be created in the 'registeredusers' table.	As expected
3	Check if user authentication and authorization work properly on the 'log in' page	Normal data	Logging in using correct email and password	User must get the access to 'My Profile' page and must be able to register to the conference	As expected
		Abnormal data	Logging in using correct wrong email or password	System must display window with message telling that entered email or password is incorrect	As expected

4	Check if ‘Log out’ button works properly		Clicking ‘Log out’ button	User must lose access to the ‘My Profile’ page’s contents and be unable to register to the conference	As expected
5	Check if authorized user can successfully register to the conference		Selecting country and clicking ‘Register’ button on ‘Conference’ page	Message about successful registration must be displayed on the ‘Conference’ and ‘My Profile’ pages. Database must be updated accordingly.	As expected
6	Check if an authorized user can successfully change personal information in the ‘My Profile’ Page	Normal data	Clicking icon button near ‘last name’ field in the ‘Personal info’ tab of the ‘My Profile’ page, then entering valid last name and clicking the ‘Change’ button	User must be able to switch to the ‘Personal info’ tab of the ‘My Profile’ page. After entering new data and clicking the ‘Change’ button, that data must be displayed in the ‘Personal info’ tab. The database must be updated accordingly. System must not reject normal data.	As expected
		Extreme data	Clicking icon button near ‘email’ field in the ‘Personal info’ tab of the ‘My Profile’ page, then entering valid email containing maximum number of characters (60) and clicking the ‘Change’ button	User must be able to switch to the ‘Personal info’ tab of the ‘My Profile’ page. After entering extreme data and clicking the ‘Change’ button, that data must be displayed in the ‘Personal info’ tab. The database must be updated accordingly. System must not reject extreme data.	As expected
		Abnormal data	Clicking icon button near ‘email’ field in the ‘Personal info’ tab of the ‘My Profile’ page, then entering invalid email (incorrect format) and clicking the ‘Change’ button	User must be able to switch to the ‘Personal info’ tab of the ‘My Profile’ page. After entering new data and clicking the ‘Change’ button, that data must not be displayed in the ‘Personal info’ tab. Instead, error message must be displayed near the field where abnormal data was entered. No changes in the database must occur. System must reject extreme data.	As expected
7	Check if data about registrations to the conferences is displayed in the ‘My Conferences’ tab of the ‘My Profile’ page		Registering to the conference and checking if data about that registration is displayed in the ‘My Conferences’ tab of the ‘My Profile’ page	Data about registration to the conference must be displayed in the form of a table with the following fields: “Committee”, “Language”, “Date”, “Topic”, “Country”, “Position Paper”, “Delete”. Data must be relevant to the conference to which the user has registered.	As expected
8	Check if authorized user can		Clicking icon button in the ‘My Conferences’	Data about successful registration to the corresponding conference must disappear from the	As expected

	successfully cancel registration to the conference		tab of the ‘My Profile’ page	‘Conferences’ page and ‘My Conferences’ tab of the ‘My Profile’ page. The user must be able to register for the corresponding conference again. Country from canceled registration must be available for selection. Available seat number must increase by 1. The database must be updated accordingly.	
9	Check if an authorized user can successfully upload the file in the ‘My Conferences’ tab of the ‘My Profile’ page	Normal data	Uploading the file that has the valid extension .docx (valid extensions are: .docx, .pdf, .txt) and size less than 2 MB	Message about successful file upload must be displayed. File must be uploaded to the ‘uploads’ folder with newly generated unique name. ‘Delete’ button must appear replacing file upload form. The database must be updated accordingly. System must accept the file.	As expected
		Abnormal data	Uploading the file that has the invalid extension .png but valid size	System must display error message saying that the file has the invalid extension. No changes in the database must occur.	As expected
		Abnormal data	Uploading the file that has the invalid size (more than 2 MB) but valid extension	System must display error message saying that the file’s size must be less than 2 MB. No changes in the database must occur.	As expected
10	Check if an authorized user can successfully delete uploaded file in the ‘My Conferences’ tab of the ‘My Profile’ page		Uploading valid file and clicking ‘Delete’ button in the ‘My Conferences’ tab of the ‘My Profile’ page	System must display message saying ‘File has been successfully deleted’. ‘Delete’ button must be replaced by file upload form. The ‘fileID’ field in the ‘committees’ table must be set to 0 for the corresponding record.	As expected
11	Check if data about all registered users is displayed successfully on the teacher’s control panel page		Checking contents of the ‘admittable.php’ page	System must display data about all registered users in the form of table. Table must include following columns: ‘ID’, ‘Firstname’, ‘Lastname’, ‘Email’, ‘Preferrable language’, ‘Grade’, ‘Studies at NIS’.	As expected
12	Check if sorting of registered users’ data works properly on the teacher’s control panel page		Clicking ‘Sort’ button and selecting each of 7 options successively	System must sort data in the order that corresponds to the chosen option.	As expected
13	Check if search works properly on the teacher’s control panel page		Checking if output shown in the table correspond to the input written in the search bar	System must output all records that contain set of character written in the search bar	As expected

14	Check if authorized user can successfully create a new conference		Clicking ‘Create a new conference’ button on the teacher’s control panel page, then filling all required input fields and clicking ‘Register new conference’ button	System must display message about successful registration of the new conference. System must update ‘committees2’ table by setting value of ‘is_registered’ field to 1 for the record that contains committee used during conference registration. System must add new record in the ‘registeredconferences’ table containing all relevant data inputted in the ‘Conference registration form’. Users must be able to register to the newly registered conference through the ‘Conferences’ page. Committees used during conference registration must not be able to be chosen during next conference registration.	As expected
15	Check if teacher can successfully cancel the conference through the ‘Conference Management’ page.		Clicking the ‘Active Conferences’ button on the teacher’s control panel page. After being redirected to the ‘Conference Management’ page, clicking the ‘Cancel Conference’ button	System must redirect user to the ‘Conference Management’ page. After clicking the ‘Cancel Conference’ button, system must display message about successful conference cancellation. System must remove data about cancelled conferences from ‘Conference Management’ and ‘Conferences’ pages. Users must not be able to register to the cancelled conference. ‘committees’ table must be updated so ‘userID’ and ‘fileID’ fields’ value for all records are set to 0. ‘committees2’ table must be updated so ‘is_registered’ field’s value is set to 0 for record containing committee of the cancelled conference. ‘registeredconferences’ table must be updated so record for cancelled conference must be deleted. Authorized user must be able to create a new conference using committee from the cancelled conference.	As expected
16	Check if file uploaded by student can be downloaded through ‘Conference Management’ page		Uploading file from the student’s perspective and trying to download it though ‘Conference Management’ page	After student successfully uploads the file, it must be shown in the form of link named ‘Download’ in the ‘Conference Management’ page. After clicking that link, file must be downloaded into the folder specified by the browser.	As expected

17	Check if file uploaded by teacher can be downloaded through ‘Feedback’ tab of the ‘My Profile’ page		Uploading file through the ‘Conference Management’ page and trying to download it through ‘Feedback’ tab of the ‘My Profile’ page	After teacher successfully uploads the file through the ‘Conference Management’ page, it must be shown in the form of link named ‘Download’ in the ‘Feedback’ tab of the ‘My Profile’ page. After clicking that link, file must be downloaded into the folder specified by the browser.	As expected
18	Check if database backup can be created		Opening phpMyAdmin, selecting ‘mun’ database, clicking on ‘Export’ button and then saving the backup of the database	Backup of the database must be created and saved on the computer	As expected

### Test №1:

- Normal data (system should accept):

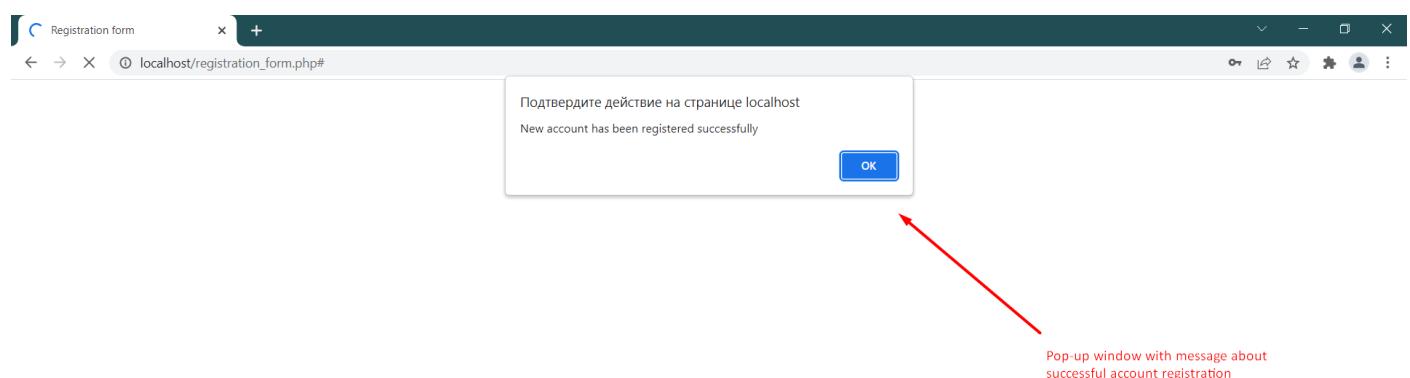
## 1. User enters valid (normal) data (Method).

The screenshot shows a registration form with several fields and validation messages:

- First name:** Ali (Validation message: **Fields are not empty**)
- Last name:** Muratov (Validation message: **Fields are not empty**)
- Email Address:** Muratov\_A@example.com (Validation message: **Correct email format**)
- Grade:** 12
- Preferrable language of the elective course:** English (checked), Russian, Kazakh
- Why do you want to enter this elective course?**: I want to improve my English speaking skills
- Do you study at NIS?**: Yes (radio button selected)
- Password:** ..... (Validation message: **Password that contains all required regEx patterns (Gfhikm123!)**)
- Repeat Password:** ..... (Validation message: **Passwords match**)

A large yellow button at the bottom right is labeled "Submit".

## 2. System accepts normal data and displays window that contains successful registration message (Result: As expected).



### 3. User is redirected to the log in page (Result: As expected).

The screenshot shows a login form with two input fields: 'Адрес электронной почты' (Email address) and 'Пароль' (Password). Below these is a large black 'Log in' button. At the bottom of the form, there is a link 'Don't have an account? [Click here](#)'.

- Extreme data (system should accept):

1. User enters data that is at the limits of what is permissible by the system (extreme data) (Method).

The screenshot shows a registration form with several input fields and associated validation messages:

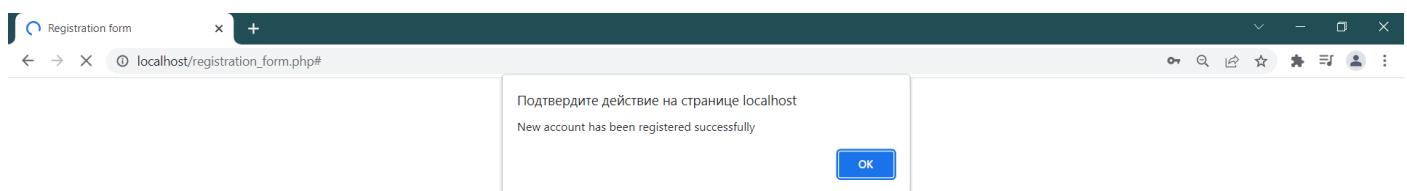
- First name:** Aaaaaaaa... (40 characters)
- Last name:** Aaaaaaaaaaaaaaaa... (40 characters)
- Email Address:** aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa@mail.ru (60 characters)
- Grade:** 10
- Preferrable language of the elective course:** English (selected), Russian, Kazakh
- Why do you want to enter this elective course?**: I want to improve my soft skills
- Do you study at NIS?**: Yes (selected)
- Password:** Gfhjkm1! (8 characters, 1 uppercase letter, 1 special character)
- Repeat Password:** Gfhjkm1!

Red arrows point from the validation text to the respective input fields.

**Maximum allowable number of characters (40 for first name and last name input fields and 60 for email address input field)**

**Minimum allowable number of special characters, uppercase letters and length of the password (inputted password is 'Gfhjkm1!': 8 characters, 1 uppercase letter, 1 special character)**

2. System accepts normal data and displays window that contains successful registration message (Result: As expected).



### 3. User is redirected to the log in page (Result: As expected).

The screenshot shows a browser window titled "Login form" with the URL "localhost/login\_form.php". The page contains a login form with two input fields: "Адрес электронной почты" (Email address) and "Пароль" (Password), both of which are currently empty. Below the inputs is a large black "Log in" button. At the bottom of the form, there is a link "Don't have an account? [Click here](#)". The browser's navigation bar includes links for "Homepage", "Conference", "Important dates", and "Information". A "Login" and "Sign-up" button are visible in the top right corner.

- Abnormal data (system should reject):

#### 1. User enters invalid (abnormal) data that system must reject (Method).

The screenshot shows a browser window titled "Registration form" with the URL "localhost/registration\_form.php". The page has a title "Registration form" at the top. It contains several input fields with validation messages:

- "First name": "First name" (highlighted by a red arrow)
- "Last name": "Last name" (highlighted by a red arrow) with the message "Empty fields"
- "Email Address": "Wilson" (highlighted by a red arrow) with the message "Incorrect email format"
- "Grade": "7" (highlighted by a red arrow)
- "Preferable language of the elective course": "English" (highlighted by a red arrow)
- "Why do you want to enter this elective course": An empty text area.
- "Do you study at NIS?": "Yes" (highlighted by a red arrow)
- "Password": "1" (highlighted by a red arrow) with the message "Password that does not comply with regEx patterns (does not have special characters, uppercase letters, etc.)"
- "Repeat Password": "2" (highlighted by a red arrow) with the message "Passwords do not match (inputted values are '1' and '2')"

A large yellow "Submit" button is at the bottom. The browser's navigation bar includes links for "Homepage", "Conference", "Important dates", and "Information". A "Login" and "Sign-up" button are visible in the top right corner.

2. System does not accept abnormal data and displays HTML element that contains information about validation errors (Result: As expected).

The screenshot shows a web browser window titled "Registration form" with the URL "localhost/registration\_form.php#". The page has a dark header with links for "Homepage", "Conference", "Important dates", and "Information". On the right, there are "Login" and "Sign-up" buttons. The main content area contains a form with the following fields:

- Preferrable language of the elective course:
  - English
  - Russian
  - Kazakh
- Why do you want to enter this elective course?  
[Text area]
- Do you study at NIS?
  - Yes
  - No
- Password  
[Text input field]
- Repeat Password  
[Text input field]

A large yellow "Submit" button is at the bottom.

On the right side of the page, there is a sidebar with a red border containing validation error messages:

- Main fields
  - First name is required
  - Last name is required
  - Valid email is required
- Password must contain at least 8 characters
- Password must contain at least 1 capital letter
- Password must contain at least 1 special character
- Passwords do not match

A red arrow points from the text "Paragraph that contains validation errors that user made when entering data" to the "Passwords do not match" error message.

## Test №2

1. New account has been registered using valid data (Method).

## Registration form

First name  
Ali

Last name  
Muratov Fields are not empty

Email Address  
Muratov\_A@example.com Correct email format

Grade  
12

Preferrable language of the elective course  
 English  Russian  Kazakh

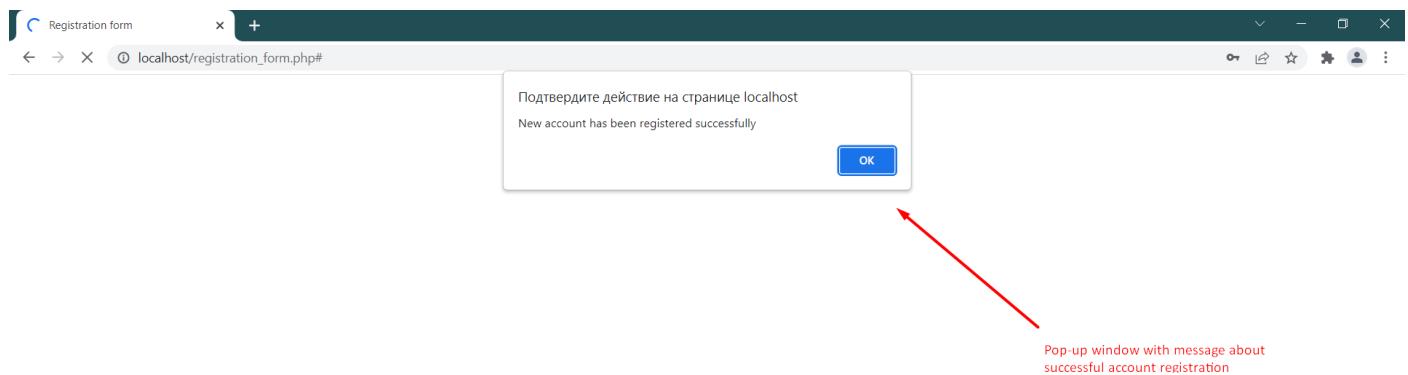
Why do you want to enter this elective course?  
I want to improve my English speaking skills

Do you study at NIS?  
 Yes  No

Password  
..... Password that contains all required regEx patterns (Gfhikm123!)

Repeat Password  
..... Passwords match

**Submit**



2. New record containing data about newly registered account is created in the 'registeredusers' table (Result: As expected).

phpMyAdmin

Server: localhost:3306 » Database: mun » Table: registeredusers

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Showing rows 0 - 14 (15 total, Query took 0.0004 seconds.)

SELECT \* FROM `registeredusers`

Show all Number of rows: 25 Filter rows: ali mura Sort by key: None

+ Options ↗ id firstname lastname email grade preferableLanguage motivation studyNIS passwordhash

With selected: Edit Copy Delete 12 Ali Muratov Muratov\_A@ukk.nis.edu.kz 7 English I want to improve my English speaking skills

Check all Export

Show all Number of rows: 25 Filter rows: ali mura Sort by key: None

Query results operations Print Copy to clipboard Export Display chart Create view

## Test №3

- Normal data

1. User clicks on ‘Login’ button and gets redirected to ‘login\_form.php’ page (Method).

Login form MAMP

localhost/login\_form.php

Homepage Conference Important dates Information Login Sign-up

Адрес электронной почты

Пароль

Log in

Don't have an account? [Click here](#)

2. User enters correct email and password (Method).

Login form MAMP

localhost/login\_form.php

Homepage Conference Important dates Information Login Sign-up

Адрес электронной почты  
Muratov\_A@ukk.nis.edu.kz

Пароль  
\*\*\*\*\*

Log in

Don't have an account? [Click here](#)

3. User clicks ‘Log in’ button and successfully logs in (Result: As expected).

The screenshot shows the MUN website homepage. At the top, there is a navigation bar with links for 'Homepage', 'Conference', 'Important dates', and 'Information'. On the right side of the navigation bar, there is a message 'Hello Ali! Your student ID is: 12' and two buttons: 'Log out' (in a grey box) and 'My Profile' (in a yellow box). Below the navigation bar, the main content area features a large heading 'Welcome to the MUN community!' and a subtext encouraging users to sign up for the next conference. The main content is divided into three sections: 'Наши ценности' (Our values), 'Глобальное гражданство' (Global citizenship), 'Коммуникативность' (Communicative competence), and 'Непрерывное образование' (Continuous education). Each section has an icon and a brief description.

Navigation bar menu changes to ‘logged in’ version, where account’s ID and button redirecting to ‘My Profile’ page are present. Using this version of navigation menu bar, user gets access to the contents of ‘My Profile’ page, where he/she can modify personal data and manage conferences. Users authenticate their identities and obtain corresponding authorization level by entering correct login details.

4. Now, user can register to the conference (Result: As expected).

The screenshot shows the conference registration page. The top navigation bar is identical to the previous one, showing the user is logged in with student ID 12. The main content area is titled 'Active conferences' and lists two available topics:

- Topic: global warming**  
Conference id: 1 Conference language: English  
Position paper: required Available seats: 5  
Committee: WHO Date: 2022-02-19  
Note: fas  
Country dropdown: Canada Register button
- Topic: covid problem**  
Conference id: 8 Conference language: English  
Position paper: required Available seats: 32  
Committee: CERN Date: 2022-02-26  
Note:  
Country dropdown: United Kingdom Register button

A red arrow points from the text 'User gets access to the 'Register' buttons' to the 'Register' button for the first topic. Another red arrow points to the 'Register' button for the second topic.

- Abnormal data

1. User clicks on ‘Login’ button and gets redirected to ‘login\_form.php’ page (Method).

Address of the electronic post

Password

Log in

Don't have an account? [Click here](#)

Login Sign-up

2. User enters incorrect email and password (Method).

Address of the electronic post  
Muratov\_A12@ukk.nis.edu.kz

Password

Log in

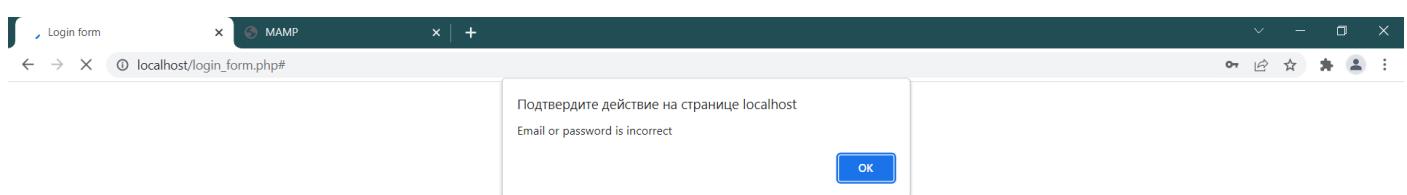
Don't have an account? [Click here](#)

Login Sign-up

According to validation rules on account registration page, password must contain at least 8 characters, so entered password cannot be correct

There is no such email in the 'registeredusers' table, so entered email cannot be correct

3. System displays window with message telling that entered email or password is incorrect (Result: As expected).



Test №4

1. User clicks 'Log out' button (Method).

Screenshot of the MUN website showing the navigation menu bar. The menu items include Homepage, Conference, Important dates, Information, Log out (highlighted with a red arrow), and My Profile (highlighted with a red arrow).

Welcome to the MUN community!

Sign up to take part in the next MUN conference in NIS Ust-Kamenogorsk! Don't miss the opportunity to get acquainted with a lot of creative personalities and develop debating skills.

## Наши ценности

<b>Глобальное гражданство</b> Это идея о том, что личность человека выходит за пределы географических или политических границ и что обязанности или права вытекают из принадлежности к более широкому классу: "человечество"	<b>Коммуникативность</b> Коммуникативность – это умение верно передавать информацию, свои мысли. Способность формулировать высказывания таким образом, что весь вкладываемый смысл полностью понимается собеседником.	<b>Непрерывное образование</b> это процесс роста образовательного потенциала личности в течение всей жизни на основе использования системы государственных институтов и в соответствии с потребностями личности.
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## 2. 'My Profile' button and text element disappear from the navigation menu bar (Result).

Screenshot of the MUN website showing the navigation menu bar. The menu items include Homepage, Conference, Important dates, Information, Login (highlighted with a red arrow), and Sign-up (highlighted with a red arrow).

Welcome to the MUN community!

Sign up to take part in the next MUN conference in NIS Ust-Kamenogorsk! Don't miss the opportunity to get acquainted with a lot of creative personalities and develop debating skills.

## Наши ценности

<b>Глобальное гражданство</b> Это идея о том, что личность человека выходит за пределы географических или политических границ и что обязанности или права вытекают из принадлежности к более широкому классу: "человечество"	<b>Коммуникативность</b> Коммуникативность – это умение верно передавать информацию, свои мысли. Способность формулировать высказывания таким образом, что весь вкладываемый смысл полностью понимается собеседником.	<b>Непрерывное образование</b> это процесс роста образовательного потенциала личности в течение всей жизни на основе использования системы государственных институтов и в соответствии с потребностями личности.
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## 3. User cannot register to the conference (Result).

localhost/conference.php MAMP

Homepage Conference Important dates Information Login Sign-up

## Active conferences

1. Topic: global warming

Conference id: 1 Conference language: English

Position paper: required Available seats: 5

Committee: WHO Date: 2022-02-19

Note: fas

! Sign-up to participate in the conference!

No 'Register' button

2. Topic: covid problem

Conference id: 8 Conference language: English

Position paper: required Available seats: 32

Committee: CERN Date: 2022-02-26

Note:

! Sign-up to participate in the conference!

## Test №5

1. User successfully logs in and becomes authorized to register to the conference

localhost/conference.php MAMP

Hello Ali! Your student ID is: 12 Log out My Profile

Homepage Conference Important dates Information

## Active conferences

1. Topic: global warming

Conference id: 1 Conference language: English

Position paper: required Available seats: 5

Committee: WHO Date: 2022-02-19

Note: fas

Canada Register

2. Topic: covid problem

Conference id: 8 Conference language: English

Position paper: required Available seats: 32

Committee: CERN Date: 2022-02-26

Note:

United Kingdom Register

2. User selects available country from the list and clicks 'Register' button (Method).

S localhost/conference.php MAMP localhost/conference.php

Homepage Conference Important dates Information Hello Ali! Your student ID is: 12 Log out My Profile

## Active conferences

1. Topic: global warming

Conference id: 1	Conference language: English
Position paper: required	Available seats: 5
Committee: WHO	Date: 2022-02-19
Note: fas	

2.

Netherlands	Register
Canada	
Chile	
Afghanistan	
Netherlands	

Then, user clicks 'Register' button to register to the conference

User selects country which he/she wants to represent during the conference

Conference id: 8	Conference language: English
Position paper: required	Available seats: 32
Committee: CERN	Date: 2022-02-26
Note:	

United Kingdom Register

3. System displays pop-up window containing message about successful registration to the conference (Result: As expected).

S localhost/conference.php# MAMP localhost/conference.php#

OK

Подтвердите действие на странице localhost  
You have successfully registered to the conference

4. Input form and 'Register' button is replaced by message telling that registration to the conference was successful (Result: As expected).

S localhost/conference.php# MAMP localhost/conference.php#

Homepage Conference Important dates Information Hello Ali! Your student ID is: 12 Log out My Profile

## Active conferences

1. Topic: global warming

Conference id: 1	Conference language: English
Position paper: required	Available seats: 5
Committee: WHO	Date: 2022-02-19
Note: fas	

✓ You have already registered to this conference!

5.

System sets value of the 'userID' field using user account's ID for record containing 'name' + 'countries' fields combination that user selected during registration to the conference

	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	<b>id</b>	<b>name</b>	<b>ConferenceID</b>	<b>countries</b>	<b>userID</b>	<b>fileID</b>
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	2	CERN	8	Argentina	4	63
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	3	CERN	8	Australia	11	77
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	6	CERN	8	Mexico	5	65
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	8	CERN	8	Saudi Arabia	3	0
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	19	CERN	NULL	United Kingdom	0	0
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	20	CERN	NULL	Brazil	0	0
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	21	CERN	NULL	Honduras	0	0
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	22	CERN	NULL	Philippines	0	0
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	9	UNDP	0	Yemen	0	0
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	10	UNDP	0	Zimbabwe	0	0
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	14	UNDP	NULL	Egypt	0	0
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	1	WHO	1	Argentina	2	0
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	4	WHO	1	Australia	8	0
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	5	WHO	1	Greece	5	64
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	7	WHO	1	Russian Federation	4	62
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	11	WHO	1	France	9	0
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	12	WHO	1	Luxembourg	10	0
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	13	WHO	1	Viet Nam	1	75
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	15	WHO	NULL	Canada	0	0
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	16	WHO	NULL	Chile	0	0
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	17	WHO	NULL	Afghanistan	0	0
	<input type="checkbox"/>	<input type="button" value="Edit"/>	<input type="button" value="Copy"/>	<input type="button" value="Delete"/>	18	WHO	1	Netherlands	12	0

## Test №6

- Normal data

### 1. Authorized user clicks icon button near the 'Last name' field (Method).

Authorized user

Clicking the icon button near the 'Last name' field

Homepage Conference Important dates Information Hello Ali! Your student ID is: 12 Log out My Profile

Personal info My conferences Feedback

First name: Ali  
 Last name: Muratov  
 Email: Muratov\_A@ukk.nis.edu.kz  
 Grade: 7  
 Preferred language: English

### 2. Corresponding HTML elements are displayed, so now user can insert and submit new data (Result: As expected).

After clicking the icon button, input field and submit button are displayed

Homepage Conference Important dates Information Hello Ali! Your student ID is: 12 Log out My Profile

Personal info My conferences Feedback

First name: Ali  
 Last name:   
 Email: Muratov\_A@ukk.nis.edu.kz  
 Grade: 7  
 Preferred language: English

### 3. User enters valid last name and clicks 'Change' button to submit new data (Method).

localhost/student\_profile.php

Hello Ali! Your student ID is: 12 Log out My Profile

Personal info My conferences Feedback

First name: Ali  
Last name:  Change  
Email: Muratov\_A@ukk.nis.edu.kz  
Grade: 7  
Preferred language: English

#### 4. System correctly displays updated data (Result: As expected).

localhost/student\_profile.php

Hello Ali! Your student ID is: 12 Log out My Profile

Personal info My conferences Feedback

First name: Ali  
Last name: Mauratov  
Email: Muratov\_A@ukk.nis.edu.kz  
Grade: 7  
Preferred language: English

#### 5. ‘registeredusers’ table before clicking ‘Change’ button (Method):

localhost/phpMyAdmin/sql.php?server=1&db=mun&table=registeredusers&pos=0

Showing rows 0 - 14 (15 total, Query took 0.0006 seconds.)

id | firstname | lastname | email | grade | preferableLanguage | motivation | studyNIS | passwordhash

+-----+-----+-----+-----+-----+-----+-----+-----+-----+

12 | Ali | Muratov | Muratov\_A@ukk.nis.edu.kz | 7 | English | I want to improve my English speaking skills | yes | \$2y\$10\$rgaaUmGWqaxwjPL4WkIK/OL7kjgvveUymkCQEJIP...

+-----+-----+-----+-----+-----+-----+-----+-----+-----+

#### 6. ‘registeredusers’ table after clicking ‘Change’ button (Result: As expected):

registeredusers									
	id	firstname	lastname	email	grade	preferableLanguage	motivation	studyNIS	passwordhash
	12	Ali	Mauratov	Muratov_A@ukk.nis.edu.kz	7	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL/7kjgvveUyymkCQEJtP...

- Extreme data

1. User enters email containing 60 characters (maximum allowed number of characters) and clicks ‘Change’ button to submit new data (Method).

Homepage Conference Important dates Information Hello Ali! Your student ID is: 12 Log out My Profile

Personal info My conferences Feedback

First name: Ali  
 Last name: Mauratov  
 Email: dddddddddd... Change  
 Grade: 7  
 Preferred language: English

Entering dddddddddd... in the email field

2. System correctly displays updated data (Result: As expected).

Homepage Conference Important dates Information Hello Ali! Your student ID is: 12 Log out My Profile

Personal info My conferences Feedback

First name: Ali  
 Last name: Mauratov  
 Email: dddddddddd...  
 Grade: 7  
 Preferred language: English

3. ‘registeredusers’ table before clicking ‘Change’ button (Method):

Showing rows 0 - 14 (15 total, Query took 0.0006 seconds.)

SELECT \* FROM `registeredusers`

	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	<input type="checkbox"/> Check all	<input type="checkbox"/> With selected:	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	<input type="checkbox"/> Export
	<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
12	Ali	Mauratov	Muratov_A@ukk.nis.edu.kz	7	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL7kjgvveUyymkCQEJtP...	
13				8	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL7kjgvveUyymkCQEJtP...	
14				9	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL7kjgvveUyymkCQEJtP...	
15				10	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL7kjgvveUyymkCQEJtP...	
16				11	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL7kjgvveUyymkCQEJtP...	
17				12	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL7kjgvveUyymkCQEJtP...	
18				13	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL7kjgvveUyymkCQEJtP...	
19				14	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL7kjgvveUyymkCQEJtP...	
20				15	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL7kjgvveUyymkCQEJtP...	
21				16	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL7kjgvveUyymkCQEJtP...	
22				17	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL7kjgvveUyymkCQEJtP...	
23				18	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL7kjgvveUyymkCQEJtP...	
24				19	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL7kjgvveUyymkCQEJtP...	
25				20	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL7kjgvveUyymkCQEJtP...	

#### 4. ‘registeredusers’ table after clicking ‘Change’ button (Result: As expected):

Showing rows 0 - 14 (15 total, Query took 0.0005 seconds.)

SELECT \* FROM `registeredusers`

	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	<input type="checkbox"/> Check all	<input type="checkbox"/> With selected:	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	<input type="checkbox"/> Export
	<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	
12	Ali	Mauratov	Muratov_A@ukk.nis.edu.kz	7	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL7kjgvveUyymkCQEJtP...	
13				8	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL7kjgvveUyymkCQEJtP...	
14				9	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL7kjgvveUyymkCQEJtP...	
15				10	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL7kjgvveUyymkCQEJtP...	
16				11	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL7kjgvveUyymkCQEJtP...	
17				12	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL7kjgvveUyymkCQEJtP...	
18				13	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL7kjgvveUyymkCQEJtP...	
19				14	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL7kjgvveUyymkCQEJtP...	
20				15	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL7kjgvveUyymkCQEJtP...	
21				16	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL7kjgvveUyymkCQEJtP...	
22				17	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL7kjgvveUyymkCQEJtP...	
23				18	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL7kjgvveUyymkCQEJtP...	
24				19	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL7kjgvveUyymkCQEJtP...	
25				20	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjPL4WkIKOL7kjgvveUyymkCQEJtP...	

- Abnormal data

1. User enters invalid email (incorrect format) and clicks ‘Change’ button to submit new data (Method).

localhost/student\_profile.php

Homepage Conference Important dates Information

Hello Ali! Your student ID is: 12 Log out My Profile

Personal info My conferences Feedback

First name: Ali

Last name: Mauratov

Email: Muratov\_Amail.ru

Grade: 7

Preferred language: English

Email should comply the following format: example@example.com  
Thus, entries email is invalid and should be rejected by the system

2. System rejects invalid data and displays error message (Result: As expected). Entered invalid data is not submitted anywhere.

First name: Ali

Last name: Mauratov

Email:  Change

Preferred language: English

**Error message generated by the browser.**  
This error message will vary in different browsers.

### 3. ‘registeredusers’ table before clicking ‘Change’ button (Method):

	id	firstname	lastname	email	grade	preferableLanguage	motivation	studyNIS	passwordhash
12	Ali	Mauratov	dddddd	7	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjjP	

### 4. ‘registeredusers’ table after clicking ‘Change’ button (Result: As expected):

	id	firstname	lastname	email	grade	preferableLanguage	motivation	studyNIS	passwordhash
12	Ali	Mauratov	Mau	7	English	I want to improve my English speaking skills	yes	\$2y\$10\$rgaaUmGWqaxwjjP	

Invalid data was not inserted into the ‘registeredusers’ table as it was expected.

### Test №7

1. Authorized user selects ‘Netherlands’ country and clicks ‘Register’ button to register to the conference (Method).

localhost/conference.php | localhost / localhost / mun / reg | +

localhost/conference.php

Homepage Conference Important dates Information Hello Ali! Your student ID is: 12 Log out My Profile

## Active conferences

1. Topic: global warming

Conference id: 1	Conference language: English
Position paper: required	Available seats: 5
Committee: WHO	Date: 2022-02-19
Note: fas	

Netherlands

2. Topic: covid problem

Conference id: 8	Conference language: English
Position paper: required	Available seats: 32
Committee: CERN	Date: 2022-02-26
Note:	

United Kingdom

User is authorized to register to the conference

This data must be displayed in the 'My Conferences' tab

Selecting 'Netherlands' and clicking the 'Register' Button

2. System displays message about successful registration to the conference. Now, data about that registration must be displayed on the corresponding webpage (Method).

localhost/conference.php# | localhost / localhost / mun / reg | +

localhost/conference.php#

Подтвердите действие на странице localhost  
You have successfully registered to the conference

3. System displays data about registration in the form of table with all needed fields (Result: As expected).

localhost/student\_profile.php | localhost / localhost / mun / reg | +

localhost/student\_profile.php

Going to the 'My Conferences' tab

Homepage Conference Important dates Information Hello Ali! Your student ID is: 12 Log out My Profile

Relevant data about registration is successfully displayed

Committee	Language	Date	Topic	Country	Position Paper	Delete
WHO	English	2022-02-19	global warming	Netherlands	Выберите файл   Файл не выбран   Загрузить <input type="button" value="x"/>	<input type="button" value="x"/>

## Test №8

'Conferences' page before registration to the Conference with id '1' was canceled:

localhost/conference.php    localhost / localhost / mun / reg

Homepage Conference Important dates Information Hello Ali! Your student ID is: 12 Log out My Profile

## Active conferences

1. Topic: global warming

Conference id: 1	Conference language: English
Position paper: required	Available seats: 4
Committee: WHO	Date: 2022-02-19
Note: fas	

You have already registered to this conference!

2. Topic: covid problem

Conference id: 8	Conference language: English
Position paper: required	Available seats: 32
Committee: CERN	Date: 2022-02-26
Note:	

United Kingdom

Available seat number is expected to decrease by 1 after registration to this conference is cancelled

Message about successful registration to the conference must be replaced by HTML form containing <select> and <button> elements

1. The user clicks the button under the ‘Delete’ field for the conference registration he/she wants to cancel (Method).

localhost/student\_profile.php    localhost / localhost / mun / reg

Homepage Conference Important dates Information Hello Ali! Your student ID is: 12 Log out My Profile

Personal info My conferences Feedback

Committee	Language	Date	Topic	Country	Position Paper	Delete
WHO	English	2022-02-19	global warming	Netherlands	Выберите файл Файл не выбран Загрузить	<input type="button" value="x"/>

User clicks icon button to cancel the registration to the corresponding conference

2. System successfully removed data about canceled registration from the table (Result: As expected).

localhost/student\_profile.php    localhost / localhost / mun / reg

Homepage Conference Important dates Information Hello Ali! Your student ID is: 12 Log out My Profile

Personal info My conferences Feedback

Committee	Language	Date	Topic	Country	Position Paper	Delete

Data about cancelled registration was successfully deleted from the table

3. There is no longer a ‘You have successfully registered’ message below the info about the conference. The user can choose any available country and re-register to the conference. The available seat number also increased by 1 (Result: As expected).

localhost/conference.php x localhost / localhost / mun / reg x +

localhost/conference.php

Homepage Conference Important dates Information Hello Ali! Your student ID is: 12 Log out My Profile

## Active conferences

1. Topic: global warming

Conference id: 1	Conference language: English
Position paper: required	Available seats: 5
Committee: WHO	Date: 2022-02-19
Note: fas	

2. Conference id: 8

Conference language: English	
Position paper: required	Available seats: 32
Committee: CERN	Date: 2022-02-26
Note:	

**Register**

Canada  
Canada  
Chile  
Afghanistan  
**Netherlands**

User can re-register to the conference selecting new country  
'Netherlands', the country from cancelled registration, is again available for being selected

United Kingdom **Register**

#### 4. 'committees' table before cancellation of the conference registration (Method):

localhost/conference.php# x localhost / localhost / mun / com x +

committes

phpMyAdmin Server: localhost 3306 » Database: mun » Table: committees

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Showing rows 0 - 21 (22 total, Query took 0.0004 seconds.)

SELECT \* FROM `committees`

File ID is set to zero because file has not been uploaded yet

User ID is not set to zero

	id	name	ConferenceID	countries	userID	fileID
<a href="#">Edit</a>	18	WHO	1	Netherlands	12	0

#### 5. 'committees' table after cancellation of the conference registration (Result: As expected):

localhost/conference.php x localhost / localhost / mun / com x +

localhost/phpMyAdmin/sql.php?server=1&db=mun&table=committees&pos=0

phpMyAdmin Server: localhost 3306 » Database: mun » Table: committees

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Showing rows 0 - 21 (22 total, Query took 0.0003 seconds.)

SELECT \* FROM `committees`

userID and fileID fields are resetted after user cancelled registration to the conference

	id	name	ConferenceID	countries	userID	fileID
<a href="#">Edit</a>	18	WHO	1	Netherlands	0	0

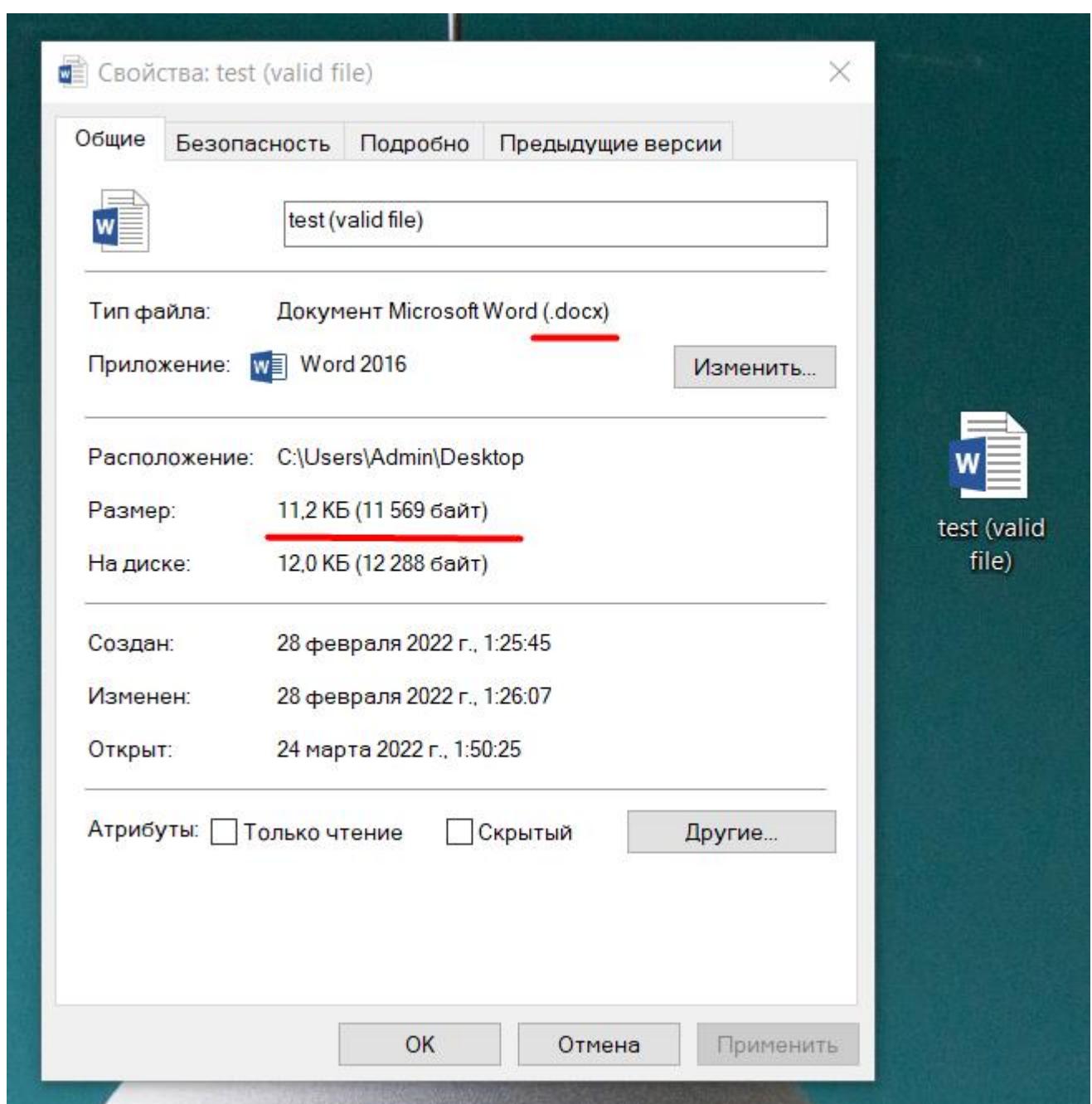
Test №9

- Normal data

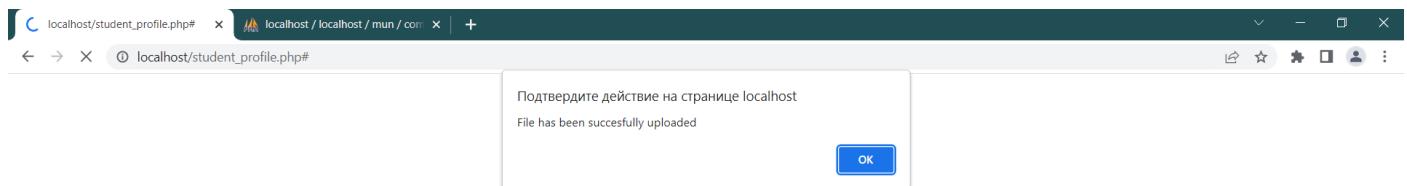
1. User selects file with the valid extension and size and then clicks ‘Загрузить’ button (Method).

Uploading file named 'test (valid file)' with the valid .docx extension and file size less than 2 MB

Committee	Language	Date	Topic	Country	Position Paper	Delete
WHO	English	2022-02-19	global warming	Netherlands	<input type="button" value="Выберите файл"/> <input type="text" value="test (valid file).docx"/> <input type="button" value="Загрузить"/>	<input type="button" value="x"/>



2. System displays message about successful file upload (Result: As expected).



3. ‘Delete’ button appears and replaces file upload form (Result: As expected).

Committee	Language	Date	Topic	Country	Position Paper	Delete
WHO	English	2022-02-19	global warming	Netherlands	File has been successfully uploaded	<button>Delete</button>

4. The uploaded file is successfully uploaded to the ‘uploads’ folder with a newly generated unique name (Result: As expected).

Имя	Дата изменения	Тип	Размер
623b7dd830ff2_test_(valid_file)	24.03.2022 2:06	Документ Microsoft Word	12 КБ
622c36c488b8_ppp321	12.03.2022 11:59	Документ Microsoft Word	12 КБ
622c3651becea_ppp321	12.03.2022 11:57	Документ Microsoft Word	12 КБ
622c3634bffd_ppp321	12.03.2022 11:57	Документ Microsoft Word	12 КБ
622c3617350f9_ppp321	12.03.2022 11:56	Документ Microsoft Word	12 КБ
622b85840e4a7_ppp321	11.03.2022 23:23	Документ Microsoft Word	12 КБ
622b8576ae8df_ppp321	11.03.2022 23:23	Документ Microsoft Word	12 КБ
622b8553490a7_ppp321	11.03.2022 23:22	Документ Microsoft Word	12 КБ

5. Data about the uploaded file is first inserted into the ‘files’ table. Then, the newly generated file’s ID is inserted into the ‘committees’ table, where it acts as a foreign key.

id	nameOfFile	size	usercurrentID
79	623b7dd830ff2_test_(valid_file).docx	11569	12

Showing rows 0 - 21 (22 total, Query took 0.0017 seconds.)

SELECT \* FROM `committees`

	<input type="checkbox"/> Show all	<input type="text"/> Number of rows:	25	<input type="text"/> Filter rows:	Neth	<input type="button"/> Sort by key	None			
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	id	name	ConferenceID	countries	userID	fileID
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	18	WHO	1	Netherlands	12	79

Check all    With selected:  Edit  Copy  Delete  Export

Show all | Number of rows: 25 | Filter rows: Neth | Sort by key: None

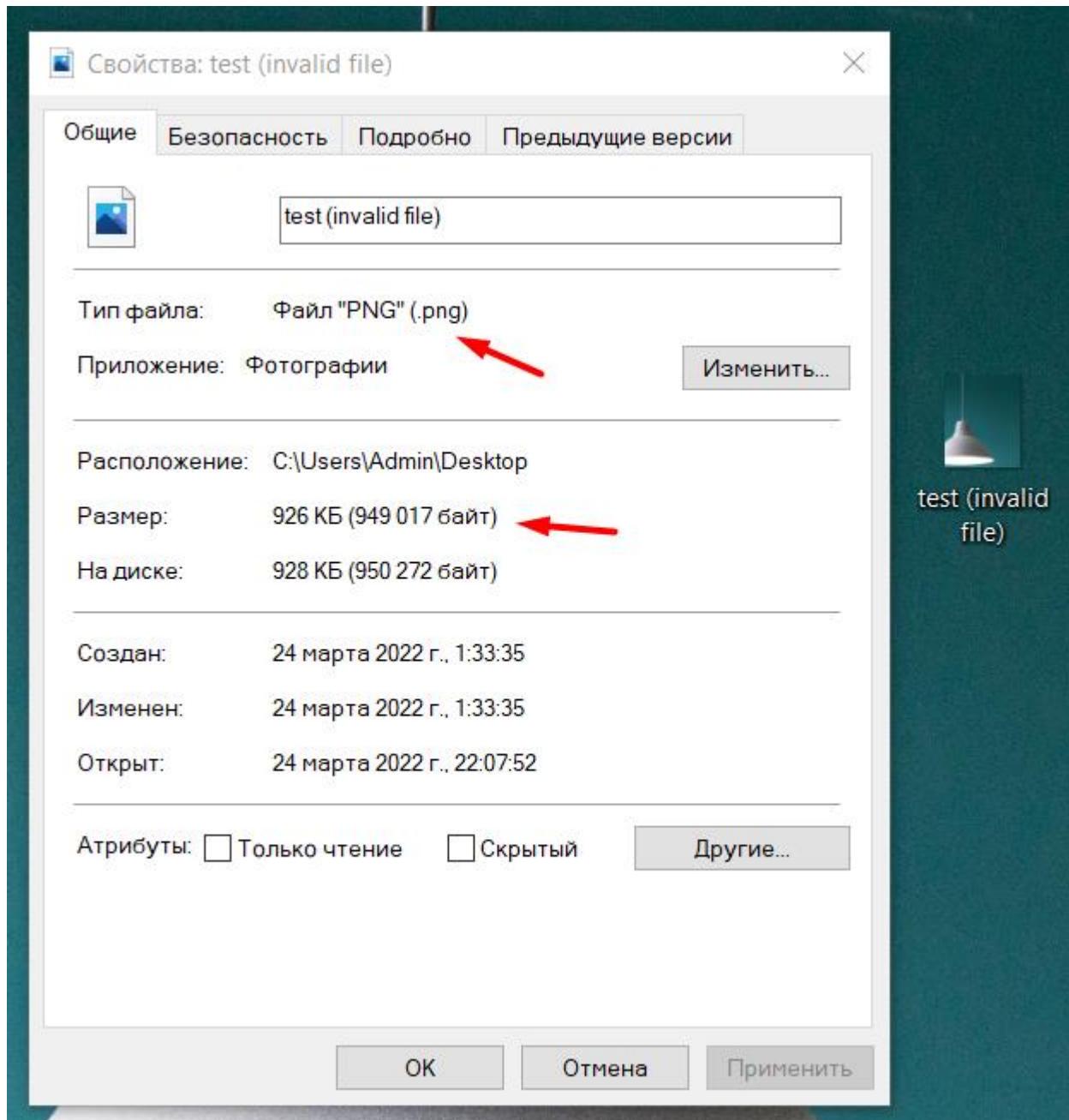
Print  Copy to clipboard  Export  Display chart  Create view

- Abnormal data #1

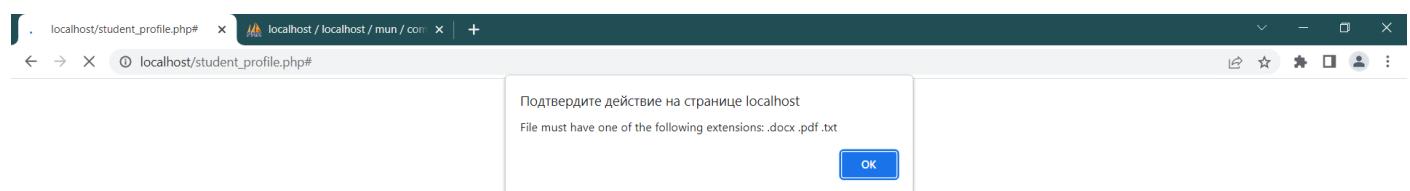
1. User selects file with the invalid extension and then clicks ‘Загрузить’ button (Method).

Homepage Conference Important dates Information Hello Ali! Your student ID is: 12 Log out My Profile

Committee	Language	Date	Topic	Country	Position Paper	Delete
WHO	English	2022-02-19	global warming	Netherlands	<input type="file" value="Выберите файл"/> test (invalid file).png <input type="button" value="Загрузить"/> <span style="color: red;">×</span>	<input type="button"/>



2. System displays error message saying that file user tries to upload has invalid extension  
(Result: As expected).



3. There is no new record for the invalid file in the database as well as in the 'uploads' folder  
(Result: As expected).

No file with the 'invalid' in the name is found.  
That is, system rejected the invalid file.

Этот компьютер > Локальный диск (C:) > MAMP > htdocs > uploads

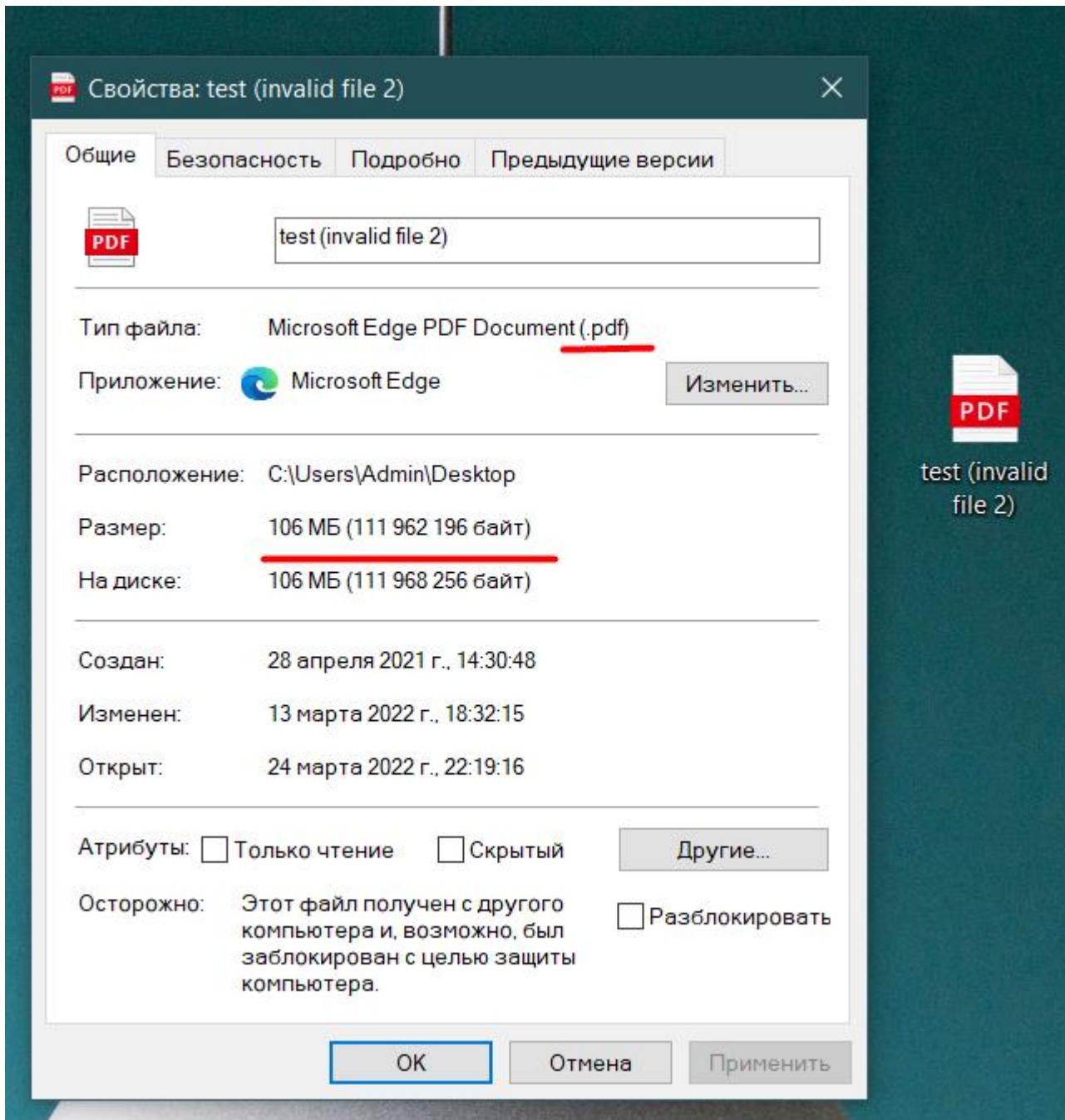
	Имя	Дата изменения	Тип	Размер
доступ	623b7dd830ff2_test_(valid_file)	24.03.2022 2:06	Документ Microsoft Word	12 КБ
1 стол	622c36c4888b8_ppp321	12.03.2022 11:59	Документ Microsoft Word	12 КБ
1	622c3651becea_ppp321	12.03.2022 11:57	Документ Microsoft Word	12 КБ
4ты	622c36348bfdd_ppp321	12.03.2022 11:57	Документ Microsoft Word	12 КБ
жения	622c3617359f9_ppp321	12.03.2022 11:56	Документ Microsoft Word	12 КБ
	622b85840e4a7_ppp321	11.03.2022 23:23	Документ Microsoft Word	12 КБ
ct	622b8576ae8df_ppp321	11.03.2022 23:23	Документ Microsoft Word	12 КБ

Last uploaded file was valid  
Files are sorted by date of upload

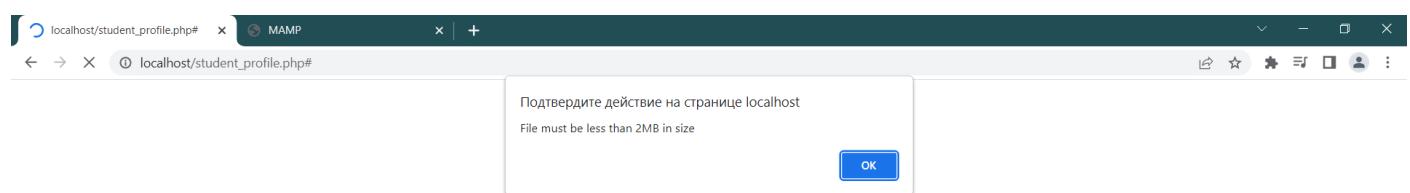
- Abnormal data #2

1. User selects file with the invalid extension and clicks ‘Загрузить’ button (Method).

Committee	Language	Date	Topic	Country	Position Paper	Delete
WHO	English	2022-02-19	global warming	Netherlands	<input type="file" value="Выберите файл"/> test (invalid file 2).pdf	<input type="button" value="Загрузить"/>



2. System displays error message saying that file user tries to upload has invalid extension  
(Result: As expected).



3. There is no new record for the invalid file in the database as well as in the 'uploads' folder  
(Result: As expected).

Этот компьютер > Локальный диск (C:) > MAMP > htdocs > uploads

	Имя	Дата изменения	Тип	Размер
ступ	623b7dd830ff2_test_(valid_file)	24.03.2022 2:06	Документ Microsoft Word	12 КБ
тол	622c36c4888b8_ppp321	12.03.2022 11:59	Документ Microsoft Word	12 КБ
ы	622c3651becea_ppp321	12.03.2022 11:57	Документ Microsoft Word	12 КБ
еня	622c36348bfdd_ppp321	12.03.2022 11:57	Документ Microsoft Word	12 КБ
е	622c3617359f9_ppp321	12.03.2022 11:56	Документ Microsoft Word	12 КБ
з	622b85840e4a7_ppp321	11.03.2022 23:23	Документ Microsoft Word	12 КБ
пка (2)	622b8576ae8df_ppp321	11.03.2022 23:23	Документ Microsoft Word	12 КБ
	622b8553490a7_ppp321	11.03.2022 23:22	Документ Microsoft Word	12 КБ
	622b852361aa2_ppp321	11.03.2022 23:21	Документ Microsoft Word	12 КБ

localhost/student\_profile.php# localhost / localhost / mun / com +

localhost/phpMyAdmin/sql.php?server=1&db=mun&table=committees&pos=0

phpMyAdmin Server: localhost:3306 Database: mun Table: committees

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Showing rows 0 - 21 (22 total, Query took 0.0017 seconds.)

SELECT \* FROM `committees`

Filter rows: invalid

No file with the 'invalid' in the name is found.  
That is, system rejected the invalid file.

+ Options id name ConferenceID countries userID fileID

Show all Number of rows: 25 Filter rows: invalid Sort by key: None

Show all Number of rows: 25 Filter rows: invalid Sort by key: None

Query results operations Print Copy to clipboard Export Display chart Create view

## Test №10

### 1. Authorized user uploads valid file (Method).

localhost/student\_profile.php# localhost / localhost / mun / files +

localhost/phpMyAdmin/sql.php?server=1&db=mun&table=files&pos=0

phpMyAdmin Server: localhost:3306 Database: mun Table: files

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

+ T id nameofthefile size usercurrentID

66	6223179e22c7f_position_paper.docx	11569	6
67	62231842647dd_6223179e22c7f_position_paper.docx	24058	7
68	622b3bbe4745c_testingtest.docx	11428	1
69	622b3bdbcace0_position_paper.docx	11569	1
70	622b3ca5e2b22_position_paper.docx	11569	1
71	622b3cb15a5e4_position_paper.docx	11569	1
72	622b3ce3e5415_position_paper.docx	11569	1
73	622b3eabc0540_position_paper.docx	11569	1
74	622b404772dcf_ppp321.docx	11569	1
75	622b7e6535dc4_testingtest.docx	11428	1
76	622c3617359f9_ppp321.docx	11569	11
77	622c36348bfdd_ppp321.docx	11569	11
79	623b7dd830ff2_test_(valid_file).docx	11569	12
80	623c9c50e651d_test_(valid_file).docx	11569	12
81	623c9c675da26_test_(valid_file).docx	11569	12
82	623c9f8cf3607_test_(valid_file).docx	11569	12

Uploaded file

Showing rows 0 - 21 (22 total, Query took 0.0008 seconds.)

SELECT \* FROM `committees`

	<input type="checkbox"/> Show all	<input type="button" value="Number of rows: 25"/>	<input type="text" value="82"/>	<input type="button" value="Filter rows: 82"/>	<input type="button" value="Sort by key: None"/>				
	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	<input type="checkbox"/> 18 WHO	<input type="checkbox"/> 1 Netherlands	<input type="checkbox"/> 12	<input type="checkbox"/> 82		
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	id	name	ConferencelD	countries	userID	fileID
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Check all	<input type="checkbox"/> With selected:	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	<input type="checkbox"/> Export
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Show all	<input type="checkbox"/> Number of rows: 25	<input type="checkbox"/> Filter rows: 82	<input type="checkbox"/> Sort by key: None		

Query results operations

## 2. Authorized user clicks 'Delete' button (Method).

Committee	Language	Date	Topic	Country	Position Paper	Delete
WHO	English	2022-02-19	global warming	Netherlands	File has been successfully uploaded	<input type="button" value="Delete"/>

## 3. System displays message saying that file has been successfully deleted (Result: As expected).

Подтвердите действие на странице localhost  
File has been successfully deleted

## 4. 'fileID' field in the 'committees' table is set to 0 for the corresponding row (Result: As expected).

Showing rows 0 - 21 (22 total, Query took 0.0005 seconds.)

SELECT \* FROM `committees`

	<input type="checkbox"/> Show all	<input type="checkbox"/> Number of rows:	25	<input type="checkbox"/> Filter rows:	neth	<input type="checkbox"/> Sort by key:	None
+ Options	<input type="checkbox"/>	<input type="checkbox"/>	18	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	WHO
	<input type="checkbox"/>	<input type="checkbox"/>	1	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	Netherlands
	<input type="checkbox"/>	<input type="checkbox"/>	12	<input type="checkbox"/> Export			0
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> Check all	<input type="checkbox"/> With selected:	<input type="checkbox"/> Edit	
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	<input type="checkbox"/> Export	
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> Print	<input type="checkbox"/> Copy to clipboard	<input type="checkbox"/> Export	<input type="checkbox"/> Display chart
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/> Create view			

## Test №11

- Teacher opens the ‘admintable.php’ page (Result: As expected).

Homepage Conference Important dates Information Hello Ali! Your student ID is: 12 Log out My Profile

Sort  Create a new conference Active conferences

ID	Firstname	Lastname	Email	Preferable Language	Grade	Studies at NIS
1	Ali	Maden	tommy@mail.ru		7	yes
2	David	Smith	AndrewSmith@example.com	English	7	yes
3	David	Johnson	DavidJohnson@mail.ru	English	7	yes
4	Miras	Kanatov	Miras_Kanatov@ukk.nis.edu.kz	English	12	yes
5	Birzhan1	Sapuanov	SapuanovBirzhan@mail.ru	Russian	7	yes
6	Islambek	Kalaisin	taison@mail.ru	Kazakh	12	yes
7	Inara	Ubina	inara@mail.ru	English	10	yes
8	Kirill	Andreev	test1@example.com	English	7	yes
9	Vasiliy	Soloviev	test2@example.com	English	7	yes
10	Muhit	Aspahenzhanov	test3@example.com	English	7	yes
11	Saltanat2	Zhumabekova	example12@example.com	English	12	yes
12	Ali	Mauratov	ddddddddddddd@.mail.ru	English	7	yes
13	Wilson	Finnegan	Wilson_Finnegan@mail.ru	English	12	yes
14	Osama	John	Osama_John@mail.ru	English	12	yes

## Test №12

- Authorized user selects ‘First name’ option in the sorting menu (Method).

localhost/adminitable.php    localhost / localhost / mun / com    +

Homepage Conference Important dates Information Hello Ali! Your student ID is: 12 Log out My Profile

**Sort** Search.. Create a new conference Active conferences

**Sorting menu**

**'First Name' option**

	First Name	Lastname	Email	Preferrable Language	Grade	Studies at NIS
1	Last name	Maden	tommy@mail.ru		7	yes
2	Email	Smith	AndrewSmith@example.com	English	7	yes
3	Preferrable Language	Johnson	DavidJohnson@mail.ru	English	7	yes
4	Grade	Kanatov	Miras_Kanatov@ukk.nis.edu.kz	English	12	yes
5	Studies at NIS	Birzhan1	Sapuanov	Russian	7	yes
6	Default	Islambek	Kalaisin	Kazakh	12	yes
7		Inara	Ubina	English	10	yes
8		Kirill	Andreev	English	7	yes
9		Vasiliy	Soloviev	English	7	yes
10		Muhit	Aspahnzhhanov	English	7	yes
11		Saltanat2	Zhumabekova	English	12	yes
12		Ali	Mauratov	English	7	yes
13		Wilson	Finnegan	English	12	yes

Result (As expected): Records are sorted in alphabetical order according to the ‘first name’ column.

localhost/adminitablefn sort.php    localhost / localhost / mun / com    +

Homepage Conference Important dates Information Hello Ali! Your student ID is: 12 Log out My Profile

**Sort** Search.. Create a new conference Active conferences

ID	Firstname	Lastname	Email	Preferrable Language	Grade	Studies at NIS
15	Alexandr	Kirov	Alexandr-Kirov@mail.ru	English	10	yes
1	Ali	Maden	tommy@mail.ru		7	yes
12	Ali	Mauratov	ddddddddddddd dddd dddd dddd dddd dddd dddd dddd@mail.ru	English	7	yes
5	Birzhan1	Sapuanov	SapuanovBirzhan@mail.ru	Russian	7	yes
2	David	Smith	AndrewSmith@example.com	English	7	yes
3	David	Johnson	DavidJohnson@mail.ru	English	7	yes
7	Inara	Ubina	inara@mail.ru	English	10	yes
6	Islambek	Kalaisin	taison@mail.ru	Kazakh	12	yes
8	Kirill	Andreev	test1@example.com	English	7	yes
4	Miras	Kanatov	Miras_Kanatov@ukk.nis.edu.kz	English	12	yes
10	Muhit	Aspahnzhhanov	test3@example.com	English	7	yes
14	Osama	John	Osama_John@mail.ru	English	12	yes
11	Saltanat2	Zhumabekova	example12@example.com	English	12	yes

2. Authorized user selects ‘Last name’ option in the sorting menu (Method).

Result (As expected): Records are sorted in alphabetical order according to the ‘last name’ column.

Screenshot of a web application showing a list of users. The 'Lastname' column is highlighted with a red border.

ID	Firstname	Lastname	Email	Preferrable Language	Grade	Studies at NIS
8	Kirill	Andreev	test1@example.com	English	7	yes
10	Muhit	Aspahnzhanov	test3@example.com	English	7	yes
13	Wilson	Finnegan	Wilson_Finnegan@mail.ru	English	12	yes
14	Osama	John	Osama_John@mail.ru	English	12	yes
3	David	Johnson	DavidJohnson@mail.ru	English	7	yes
6	Islambek	Kalaisin	taison@mail.ru	Kazakh	12	yes
4	Miras	Kanatov	Miras_Kanatov@ukk.nis.edu.kz	English	12	yes
15	Alexandr	Kirov	Alexandr-Kirov@mail.ru	English	10	yes
1	Ali	Maden	tommy@mail.ru		7	yes
12	Ali	Mauratov	ddddddddddddd@mail.ru	English	7	yes
5	Birzhan1	Sapuanov	SapuanovBirzhan@mail.ru	Russian	7	yes
2	David	Smith	AndrewSmith@example.com	English	7	yes
9	Vasiliy	Soloviev	test2@example.com	English	7	yes
7	Inara	Ubina	inara@mail.ru	English	10	yes

### 3. Authorized user selects ‘Email’ option in the sorting menu (Method).

Result (As expected): Records are sorted in alphabetical order according to the ‘email’ column.

Screenshot of a web application showing a list of users. The 'Email' column is highlighted with a red border.

ID	Firstname	Lastname	Email	Preferrable Language	Grade	Studies at NIS
15	Alexandr	Kirov	Alexandr-Kirov@mail.ru	English	10	yes
2	David	Smith	AndrewSmith@example.com	English	7	yes
3	David	Johnson	DavidJohnson@mail.ru	English	7	yes
12	Ali	Mauratov	ddddddddddddd@mail.ru	English	7	yes
11	Saltanat2	Zhumabekova	example12@example.com	English	12	yes
7	Inara	Ubina	inara@mail.ru	English	10	yes
4	Miras	Kanatov	Miras_Kanatov@ukk.nis.edu.kz	English	12	yes
14	Osama	John	Osama_John@mail.ru	English	12	yes
5	Birzhan1	Sapuanov	SapuanovBirzhan@mail.ru	Russian	7	yes
6	Islambek	Kalaisin	taison@mail.ru	Kazakh	12	yes
8	Kirill	Andreev	test1@example.com	English	7	yes
9	Vasiliy	Soloviev	test2@example.com	English	7	yes
10	Muhit	Aspahnzhanov	test3@example.com	English	7	yes
1	Ali	Maden	tommy@mail.ru		7	yes

### 4. Authorized user selects ‘Preferrable Language’ option in the sorting menu (Method).

Result (As expected): Records are grouped according to the ‘Preferrable Language’ column.

Screenshot of a web browser showing a table of student records. The table has columns: ID, Firstname, Lastname, Email, Preferable Language, Grade, and Studies at NIS. A red box highlights the 'Preferable Language' column.

ID	Firstname	Lastname	Email	Preferable Language	Grade	Studies at NIS
1	Ali	Maden	tommy@mail.ru		7	yes
6	Islambek	Kalaisin	taison@mail.ru	Kazakh	12	yes
5	Birzhan1	Sapuanov	SapuanovBirzhan@mail.ru	Russian	7	yes
2	David	Smith	AndrewSmith@example.com	English	7	yes
3	David	Johnson	DavidJohnson@mail.ru	English	7	yes
4	Miras	Kanatov	Miras_Kanatov@ukk.nis.edu.kz	English	12	yes
7	Inara	Ubina	inara@mail.ru	English	10	yes
8	Kirill	Andreev	test1@example.com	English	7	yes
9	Vasiliy	Soloviev	test2@example.com	English	7	yes
10	Muhit	Aspahnzhhanov	test3@example.com	English	7	yes
11	Saltanat2	Zhumabekovna	example12@example.com	English	12	yes
12	Ali	Mauratov	dddddddddddddऽdddddऽdddddऽdddddऽdddddऽdddddऽdddddऽdddddऽdddddऽdddddऽddddd@mail.ru	English	7	yes
13	Wilson	Finnegan	Wilson_Finnegan@mail.ru	English	12	yes
14	Osama	John	Osama_John@mail.ru	English	12	yes

## 5. Authorized user selects ‘Grade’ option in the sorting menu (Method).

Result (As expected): Records are sorted in ascending order according to the ‘Grade’ column.

Screenshot of a web browser showing the same table of student records, but sorted by the 'Grade' column. A red box highlights the 'Grade' column.

ID	Firstname	Lastname	Email	Preferable Language	Grade	Studies at NIS
1	Ali	Maden	tommy@mail.ru		7	yes
2	David	Smith	AndrewSmith@example.com	English	7	yes
3	David	Johnson	DavidJohnson@mail.ru	English	7	yes
5	Birzhan1	Sapuanov	SapuanovBirzhan@mail.ru	Russian	7	yes
8	Kirill	Andreev	test1@example.com	English	7	yes
9	Vasiliy	Soloviev	test2@example.com	English	7	yes
10	Muhit	Aspahnzhhanov	test3@example.com	English	7	yes
12	Ali	Mauratov	dddddddddddddऽdddddऽdddddऽdddddऽdddddऽdddddऽdddddऽdddddऽdddddऽddddd@mail.ru	English	7	yes
7	Inara	Ubina	inara@mail.ru	English	10	yes
15	Alexandr	Kirov	Alexandr-Kirov@mail.ru	English	10	yes
4	Miras	Kanatov	Miras_Kanatov@ukk.nis.edu.kz	English	12	yes
6	Islambek	Kalaisin	taison@mail.ru	Kazakh	12	yes
11	Saltanat2	Zhumabekovna	example12@example.com	English	12	yes

## 6. Authorized user selects ‘Studies at NIS’ option in the sorting menu (Method).

Result (As expected): Records are grouped according to the ‘Studies at NIS’ column.

Screenshot of a web browser showing a table of student records. The table has columns: ID, Firstname, Lastname, Email, Preferable Language, Grade, and Studies at NIS. The 'Studies at NIS' column is highlighted with a red border.

ID	Firstname	Lastname	Email	Preferable Language	Grade	Studies at NIS
16	Marcos	Salinas	Marcos@mail.ru	Russian	11	no
17	Marvin	Ramsey	ramsey@mail.ru	Russian	7	no
1	Ali	Maden	tommy@mail.ru		7	yes
2	David	Smith	AndrewSmith@example.com	English	7	yes
3	David	Johnson	DavidJohnson@mail.ru	English	7	yes
4	Miras	Kanatov	Miras_Kanatov@ukk.nis.edu.kz	English	12	yes
5	Birzhan1	Sapuanov	SapuanovBirzhan@mail.ru	Russian	7	yes
6	Islambek	Kalaisin	taison@mail.ru	Kazakh	12	yes
7	Inara	Ubina	inara@mail.ru	English	10	yes
8	Kirill	Andreev	test1@example.com	English	7	yes
9	Vasiliy	Soloviev	test2@example.com	English	7	yes
10	Muhit	Aspahnhzanov	test3@example.com	English	7	yes
11	Saltanat2	Zhumabekova	example12@example.com	English	12	yes

## 7. Authorized user selects ‘Default’ option in the sorting menu (Method).

Result (As expected): Records are sorted in alphabetical ascending according to the ‘ID’ column.

Screenshot of a web browser showing a table of student records. The 'ID' column is highlighted with a red border.

ID	Firstname	Lastname	Email	Preferable Language	Grade	Studies at NIS
1	Ali	Maden	tommy@mail.ru		7	yes
2	David	Smith	AndrewSmith@example.com	English	7	yes
3	David	Johnson	DavidJohnson@mail.ru	English	7	yes
4	Miras	Kanatov	Miras_Kanatov@ukk.nis.edu.kz	English	12	yes
5	Birzhan1	Sapuanov	SapuanovBirzhan@mail.ru	Russian	7	yes
6	Islambek	Kalaisin	taison@mail.ru	Kazakh	12	yes
7	Inara	Ubina	inara@mail.ru	English	10	yes
8	Kirill	Andreev	test1@example.com	English	7	yes
9	Vasiliy	Soloviev	test2@example.com	English	7	yes
10	Muhit	Aspahnhzanov	test3@example.com	English	7	yes
11	Saltanat2	Zhumabekova	example12@example.com	English	12	yes
12	Ali	Mauratov	ddddddddddddd@.mail.ru	English	7	yes
13	Wilson	Finnegan	Wilson_Finnegan@mail.ru	English	12	yes

## Test №13

Screenshot of a web browser showing a table of student records. A red arrow points from the 'Search bar' to the search input field.

ID	Firstname	Lastname	Email	Preferable Language	Grade	Studies at NIS
1	Ali	Maden	tommy@mail.ru		7	yes

localhost/adminsortabledefaultsort.php | localhost / mun / com | +

Homepage Conference Important dates Information Hello Ali! Your student ID is: 12 Log out My Profile

Sort ▾ Ali Search input Create a new conference Active conferences

ID	Firstname	Lastname	Email	Preferrable Language	Grade	Studies at NIS
1	Ali	Maden	ddddd@ddd@mail.ru		7	yes
12	Ali	Mauratov	ddddd@ddd@mail.ru	English	7	yes
16	Marcos	Silinas	Marcos@mail.ru	Russian	11	no

## Test №14

'committees2' table before new conference registration:

localhost/conference\_registration x localhost / mun / com +

localhost/phpMyAdmin/sql.php?server=1&db=mun&table=committees2&pos=0

phpMyAdmin Server: localhost:3306 » Database: mun » Table: committees2

Browse Structure SQL Search Insert Export

Showing rows 0 - 3 (4 total, Query took 0.0027 seconds.)

```
SELECT * FROM `committees2`
```

Show all Number of rows: 25 Filter rows: Search this table

+ Options

			id	committee	is_registered
<input type="checkbox"/>			1	CERN	1
<input type="checkbox"/>			2	EC	0
<input type="checkbox"/>			3	UNDP	0
<input type="checkbox"/>			4	WHO	1

Check all With selected: Edit Copy Delete Export

'registeredconferences' table before new conference registration:

Showing rows 0 - 2 (3 total, Query took 0.0003 seconds.)

```
SELECT * FROM `registeredconferences`
```

	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	<a href="#">New</a>	<a href="#">Structure</a>	<a href="#">SQL</a>	<a href="#">Search</a>	<a href="#">Insert</a>	<a href="#">Export</a>	<a href="#">Import</a>	<a href="#">Privileges</a>	<a href="#">Operations</a>	<a href="#">Triggers</a>
	Show all	Number of rows:	25	Filter rows:	Search this table	Sort by key:	None						
1	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	global warming	WHO	2022-02-19	English	12	1	fas			
8	<a href="#">Edit</a>	<a href="#">Copy</a>	<a href="#">Delete</a>	covid problem	CERN	2022-02-26	English	36	1				

## 1. Authorized user clicks ‘Create a new conference’ button (Method).

Homepage Conference Important dates Information Hello Ali! Your student ID is: 12 Log out My Profile

ID	Firstname	Lastname	Email	Preferable Language	Grade	Studies at NIS
1	Ali	Maden	tommy@mail.ru		7	yes
2	David	Smith	AndrewSmith@example.com	English	7	yes
3	David	Johnson	DavidJohnson@mail.ru	English	7	yes
4	Miras	Kanatov	Miras_Kanatov@ukk.nis.edu.kz	English	12	yes
5	Birzhan1	Sapuanov	SapuanovBirzhan@mail.ru	Russian	7	yes
6	Islambek	Kaisin	taison@mail.ru	Kazakh	12	yes
7	Inara	Ubina	inara@mail.ru	English	10	yes
8	Kirill	Andreev	test1@example.com	English	7	yes
9	Vasiliy	Soloviev	test2@example.com	English	7	yes
10	Muhit	Aspahnzhanov	test3@example.com	English	7	yes
11	Saltanat2	Zhumabekova	example12@example.com	English	12	yes

## 2. System redirects user to the corresponding page (Result: As expected).

localhost/conference\_registration.php

Homepage Conference Important dates Information Hello Ali! Your student ID is: 12 Log out My Profile

User is redirected to the corresponding page

**Conference registration form**

Topic	Language
<input type="text"/>	<input type="text"/>
Committee	Available seat number
<input type="text"/>	<input type="text"/>
Date	Is position paper required?
<input type="text"/> ДД.ММ.ГГГГ	<input type="radio"/> Yes <input type="radio"/> No
Do you want to add additional information that can be seen by all participants?	
<input type="radio"/> Yes <input type="radio"/> No	
<a href="#">Register new conference</a>	

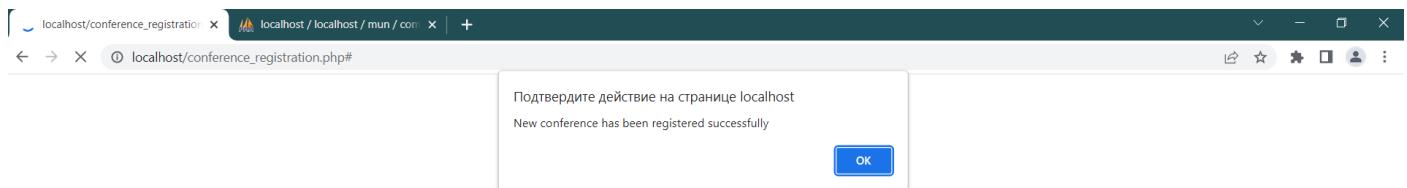
3. Authorized user fills all required input fields and clicks the button named ‘Register new conference’ (Method).

The screenshot shows a web browser window with the URL `localhost/conference_registration.php`. The page title is "Conference registration form". The form fields include:

- Topic: Ozone layer depletion
- Language: English
- Committee: EC
- Available seat number: 32
- Date: 30.03.2022
- Is position paper required? (radio buttons): Yes (selected)
- Do you want to add additional information that can be seen by all participants? (radio buttons): Yes (selected)
- Note: Position papers must be submitted by March 29th
- Buttons: Register new conference (yellow background)

At the top right, there is a message: "Hello Ali! Your student ID is: 12" with links for "Log out" and "My Profile".

4. System displays message about successful conference registration (Result: As expected).



5. System updates ‘committees2’ table correctly (Result: As expected).

localhost/conference\_registration X localhost / localhost / mun / com +

localhost/phpMyAdmin/sql.php?server=1&db=mun&table=committees2&pos=0

**phpMyAdmin**

Recent Favorites

- New
- information\_schema
- mun**
  - New
  - committees
  - committees2**
  - contactformtable
  - feedbackfiles
  - files
  - registeredconferences
  - registeredusers
- mydb
- mysql
- performance\_schema
- regauth-bd
- sys

Server: localhost:3306 » Database: mun » Table: committees2

Browse Structure SQL Search Insert Export

Showing rows 0 - 3 (4 total, Query took 0.0015 seconds.)

```
SELECT * FROM `committees2`
```

Show all Number of rows: 25 Filter rows: Search this table

+ Options

	<b>id</b>	<b>committee</b>	<b>is_registered</b>
<input type="checkbox"/>	1	CERN	1
<input type="checkbox"/>	2	EC	1
<input type="checkbox"/>	3	UNDP	0
<input type="checkbox"/>	4	WHO	1

Check all With selected: Edit Copy Delete E

6. System updates ‘registeredconferences’ table correctly (Result: As expected).

localhost/conference\_registration X localhost / localhost / mun / reg... +

localhost/phpMyAdmin/sql.php?server=1&db=mun&table=registeredconferences&pos=0

**phpMyAdmin**

Recent Favorites

- New
- information\_schema
- mun**
  - New
  - committees
  - committees2
  - contactformtable
  - feedbackfiles
  - files
  - registeredconferences**
  - registeredusers
- mydb
- mysql
- performance\_schema
- regauth-bd
- sys

Server: localhost:3306 » Database: mun » Table: registeredconferences

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Showing rows 0 - 2 (3 total, Query took 0.0029 seconds.)

```
SELECT * FROM `registeredconferences`
```

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

+ Options

	<b>id</b>	<b>conftopic</b>	<b>committee</b>	<b>confdate</b>	<b>language</b>	<b>participantsnumber</b>	<b>ppisrequired</b>	<b>primechanie</b>
<input type="checkbox"/>	1	global warming	WHO	2022-02-19	English	12	1	fas
<input type="checkbox"/>	8	covid problem	CERN	2022-02-26	English	36	1	
<input type="checkbox"/>	9	Ozone layer depletion	EC	2022-03-30	English	32	1	Position papers must be submitted by March 29th

Check all With selected: Edit Copy Delete Export

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

7. Authorized user can register to the newly created conference (Result: As expected).

localhost/conference.php    localhost / localhost / mun / com | +

localhost/conference.php

Homepage Conference Important dates Information Hello Ali! Your student ID is: 12 Log out My Profile

You have already registered to this conference!

2. Topic: covid problem

Conference id: 8	Conference language: English
Position paper: required	Available seats: 32
Committee: CERN	Date: 2022-02-26
Note:	
United Kingdom	<input type="button" value="Register"/>

3. Topic: Ozone layer depletion

Conference id: 9	Conference language: English
Position paper: required	Available seats: 32
Committee: EC	Date: 2022-03-30
<input type="button" value="Argentina"/> Argentina submitted by March 29th <input type="button" value="Canada"/> Canada <input type="button" value="Argentina"/> Argentina	
<input type="button" value="Register"/>	

8. EC, committee that was used to create the conference during this test, cannot be chosen to create a new conference (Result: As expected).

localhost/conference\_registration.php

localhost / localhost / mun / com | +

localhost/conference\_registration.php

Homepage Conference Important dates Information Hello Ali! Your student ID is: 12 Log out My Profile

### Conference registration form

Topic	Language
<input type="text"/>	<input type="button" value="English"/>
Committee	Available seat number
<input type="button" value="UNDP"/> UNDP	<input type="text"/>
Date	<input type="button" value="dd.mm.yyyy"/>
<input type="radio"/> Yes <input type="radio"/> No	
Is position paper required?	
<input type="radio"/> Yes <input type="radio"/> No	
Do you want to add additional information that can be seen by all participants?	
<input type="radio"/> Yes <input type="radio"/> No	
<input type="button" value="Register new conference"/>	

Test №15

‘Conferences’ page before cancellation of conference with ID = ‘8’:

Screenshot of a web application showing conference registration details.

**Conference Details:**

- Topic:** covid problem
- Conference id:** 8
- Conference language:** English
- Position paper:** required
- Available seats:** 32
- Committee:** CERN
- Date:** 2022-02-26
- Note:** United Kingdom
- Register** button

**Topic:** Ozone layer depletion

- Conference id:** 9
- Conference language:** English
- Position paper:** required
- Available seats:** 32
- Committee:** EC
- Date:** 2022-03-30
- countries:** Argentina, Canada, United Kingdom (dropdown menu)
- Register** button

‘committees’ table before conference with ID = ‘8’ and committee = ‘CERN’ was cancelled:

Screenshot of phpMyAdmin showing the ‘committees’ table.

**Table Structure:**

	id	name	ConferenceID	countries	userID	fileID
<input type="checkbox"/>	2	CERN	8	Argentina	4	63
<input type="checkbox"/>	3	CERN	8	Australia	11	77
<input type="checkbox"/>	6	CERN	8	Mexico	5	65
<input type="checkbox"/>	8	CERN	8	Saudi Arabia	3	0
<input type="checkbox"/>	19	CERN	NULL	United Kingdom	0	0
<input type="checkbox"/>	20	CERN	NULL	Brazil	0	0
<input type="checkbox"/>	21	CERN	NULL	Honduras	0	0
<input type="checkbox"/>	22	CERN	NULL	Philippines	0	0
<input type="checkbox"/>	33	EC	NULL	Argentina	0	0
<input type="checkbox"/>	34	EC	NULL	Canada	0	0

‘committees2’ table before conference with ID = ‘8’ and committee = ‘CERN’ was cancelled:

localhost/conferencesmanagement X    localhost / localhost / mun / com X +

localhost/phpMyAdmin/sql.php?server=1&db=mun&table=committees2&pos=0

**phpMyAdmin**

Recent Favorites

Server: localhost:3306 » Database: mun » Table: committees2

Browse Structure SQL Search Insert

Showing rows 0 - 3 (4 total, Query took 0.0015 seconds.)

```
SELECT * FROM `committees2`
```

Show all Number of rows: 25 Filter rows: Search

+ Options

		id	committee	is_registered
<input type="checkbox"/>	Edit Copy Delete	1	CERN	1
<input type="checkbox"/>	Edit Copy Delete	2	EC	1
<input type="checkbox"/>	Edit Copy Delete	3	UNDP	0
<input type="checkbox"/>	Edit Copy Delete	4	WHO	1

Check all With selected: Edit Copy Delete

Show all Number of rows: 25 Filter rows: Search

'registeredconferences' table before conference with ID = '8' and committee = 'CERN' was cancelled:

localhost/conferencesmanagement X    localhost / localhost / mun / regi X +

localhost/phpMyAdmin/sql.php?server=1&db=mun&table=registeredconferences&pos=0

**phpMyAdmin**

Recent Favorites

Server: localhost:3306 » Database: mun » Table: registeredconferences

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Showing rows 0 - 2 (3 total, Query took 0.0003 seconds.)

```
SELECT * FROM `registeredconferences`
```

Profiling [Edit inline] [Edit] [Explain SQL] [Create]

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

+ Options

		id	conftopic	committee	confdate	language	participantsnumber	ppisrequired	primechanie
<input type="checkbox"/>	Edit Copy Delete	1	global warming	WHO	2022-02-19	English	12	1	fas
<input type="checkbox"/>	Edit Copy Delete	8	covid problem	CERN	2022-02-26	English	36	1	
<input type="checkbox"/>	Edit Copy Delete	9	Ozone layer depletion	EC	2022-03-30	English	32	1	Position papers must be submitted by March 29th

Check all With selected: Edit Copy Delete Export

Show all Number of rows: 25 Filter rows: Search this table Sort by key: None

1. Authorized user clicks 'Active Conferences' button (Method).

localhost/adminitable.php

localhost / localhost / mun / reg

Homepage Conference Important dates Information Hello Ali! Your student ID is: 12 Log out My Profile

Sort Search.. Create a new conference Active conferences

ID	Firstname	Lastname	Email	Preferrable Language	Grade	Studies at NIS
1	Ali	Maden	tommy@mail.ru		7	yes
2	David	Smith	AndrewSmith@example.com	English	7	yes
3	David	Johnson	DavidJohnson@mail.ru	English	7	yes
4	Miras	Kanatov	Miras_Kanatov@ukk.nis.edu.kz	English	12	yes
5	Birzhan1	Sapuanov	SapuanovBirzhan@mail.ru	Russian	7	yes
6	Islambek	Kalaisin	taison@mail.ru	Kazakh	12	yes
7	Inara	Ubina	inara@mail.ru	English	10	yes
8	Kirill	Andreev	test1@example.com	English	7	yes
9	Vasiliy	Soloviev	test2@example.com	English	7	yes

## 2. System redirects user to the ‘Conference Management’ page (Result: As expected).

localhost/conferencesmanagement.php

localhost / localhost / mun / reg

Homepage Conference Important dates Information Hello Ali! Your student ID is: 12 Log out My Profile

## Active conferences

1. Topic: global warming

Conference id: 1	Conference language: English
Position paper: required	Available seats: 12
Committee: WHO	Date: 2022-02-19
Примечание: fas	

[Cancel Conference](#)

Student ID	Student name	Country	Position paper	Feedback
2	David Smith	Argentina	File has not been uploaded yet	File has not been uploaded by user yet
8	Kirill Andreev	Australia	File has not been uploaded yet	File has not been uploaded by user yet
5	Birzhan1 Sapuanov	Greece	<a href="#">Download</a>	Выберите файл Файл не выбран Загрузить
4	Miras Kanatov	Russian Federation	<a href="#">Download</a>	Выберите файл Файл не выбран Загрузить
9	Vasiliy Soloviev	France	File has not been uploaded yet	File has not been uploaded by user yet

## 3. User clicks ‘Cancel Conference’ button (Method).

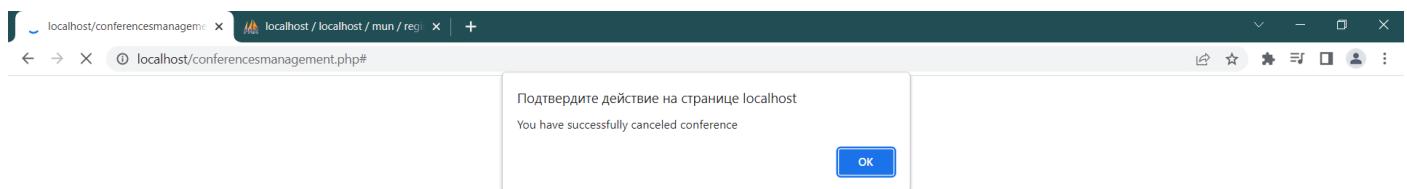
2. Topic: covid problem

Conference id: 8	Conference language: English
Position paper: required	Available seats: 36
Committee: CERN	Date: 2022-02-26
Примечание:	

[Cancel Conference](#)

Student ID	Student name	Country	Position paper	Feedback
4	Miras Kanatov	Argentina	<a href="#">Download</a>	Выберите файл Файл не выбран Загрузить
11	Saltanat2 Zhumabekova	Australia	<a href="#">Download</a>	File has been successfully uploaded Удалить
5	Birzhan1 Sapuanov	Mexico	<a href="#">Download</a>	Выберите файл Файл не выбран Загрузить
3	David Johnson	Saudi Arabia	File has not been uploaded yet	File has not been uploaded by user yet

#### 4. System displays message about successful conference cancellation (Result: As expected).



#### 5. System removes data about cancelled conference from 'Conference Management' and 'Conferences' pages (Result: As expected).

##### 'Conference Management' page:

A screenshot of the 'Conference Management' page. It shows two conference entries in a table:

Student ID	Student name	Country	Position paper	Feedback
1	John Doe	United States	<a href="#">Download</a>	File has not been uploaded by user pdf File has not been uploaded by user pdf
2	Jane Smith	United Kingdom	<a href="#">Download</a>	File has not been uploaded by user pdf File has not been uploaded by user pdf
3	Robert Johnson	Germany	<a href="#">Download</a>	File has not been uploaded by user pdf File has not been uploaded by user pdf
4	Maria Gerasimova	Russia Federation	<a href="#">Download</a>	File has not been uploaded by user pdf File has not been uploaded by user pdf
5	Vladimir Soloviev	France	<a href="#">Download</a>	File has not been uploaded by user pdf File has not been uploaded by user pdf
6	Mihai Popescu	Luxembourg	<a href="#">Download</a>	File has not been uploaded by user pdf File has not been uploaded by user pdf
7	All Madsen	United States	<a href="#">Download</a>	File has not been uploaded by user pdf File has been successfully uploaded
8	All Madsen	Netherlands	<a href="#">Download</a>	File has not been uploaded by user pdf File has not been uploaded by user pdf

The first conference entry (Topic: global warming) has a red arrow pointing to its 'Cancelled' status. The second conference entry (Topic: Ozone layer depletion) also has a red arrow pointing to its 'Cancelled' status.

##### 'Conferences' page:

A screenshot of the 'Conferences' page. It shows two conference entries in a table:

Student ID	Student name	Country	Position paper	Feedback
1	John Doe	United States	<a href="#">Download</a>	File has not been uploaded by user pdf File has not been uploaded by user pdf
2	Jane Smith	United Kingdom	<a href="#">Download</a>	File has not been uploaded by user pdf File has not been uploaded by user pdf
3	Robert Johnson	Germany	<a href="#">Download</a>	File has not been uploaded by user pdf File has not been uploaded by user pdf
4	Maria Gerasimova	Russia Federation	<a href="#">Download</a>	File has not been uploaded by user pdf File has not been uploaded by user pdf
5	Vladimir Soloviev	France	<a href="#">Download</a>	File has not been uploaded by user pdf File has not been uploaded by user pdf
6	Mihai Popescu	Luxembourg	<a href="#">Download</a>	File has not been uploaded by user pdf File has not been uploaded by user pdf
7	All Madsen	United States	<a href="#">Download</a>	File has not been uploaded by user pdf File has been successfully uploaded
8	All Madsen	Netherlands	<a href="#">Download</a>	File has not been uploaded by user pdf File has not been uploaded by user pdf

The first conference entry (Topic: global warming) has a red arrow pointing to its 'Cancelled' status. The second conference entry (Topic: Ozone layer depletion) also has a red arrow pointing to its 'Cancelled' status.

Below the conference table, there is a registration form:

Conference language: English  
Available seats: 12  
Date: 2022-02-19

Conference id: 9  
Position paper: required  
Committee: WHO  
Note: fas

You have already registered to this conference!

Argentina

Users cannot register to the cancelled conference because there is no data about it or input form allowing to select country and click the 'Register' button.

#### 6. System updates 'registeredconferences' table as it was expected (correctly).

Showing rows 0 - 1 (2 total, Query took 0.0004 seconds.)

```
SELECT * FROM `registeredconferences`
```

Record containing data about conference with ID = '8' was deleted

	id	conftopic	committee	confdate	language	participantsnumber	ppisrequired	primechanie
<input type="checkbox"/>	1	global warming	WHO	2022-02-19	English	12	1	fas
<input type="checkbox"/>	9	Ozone layer depletion	EC	2022-03-30	English	32	1	Position papers must be submitted by March 29th

## 7. System updates ‘committees’ table as it was expected.

Showing rows 0 - 1 (2 total, Query took 0.0004 seconds.)

```
SELECT * FROM `committees`
```

	id	name	ConferencID	countries	userID	fileID
<input type="checkbox"/>	2	CERN	0	Argentina	0	0
<input type="checkbox"/>	3	CERN	0	Australia	0	0
<input type="checkbox"/>	6	CERN	0	Mexico	0	0
<input type="checkbox"/>	8	CERN	0	Saudi Arabia	0	0
<input type="checkbox"/>	19	CERN	NULL	United Kingdom	0	0
<input type="checkbox"/>	20	CERN	NULL	Brazil	0	0
<input type="checkbox"/>	21	CERN	NULL	Honduras	0	0
<input type="checkbox"/>	22	CERN	NULL	Philippines	0	0
<input type="checkbox"/>	33	EC	NULL	Argentina	0	0
<input type="checkbox"/>	34	EC	NULL	Canada	0	0

## 8. System updates ‘committees2’ table as it was expected.

localhost/conference.php x PMA localhost / localhost / mun / com +

localhost/phpMyAdmin/sql.php?server=1&db=mun&table=committees2&p=

Showing rows 0 - 3 (4 total, Query took 0.0017 seconds.)

```
SELECT * FROM `committees2`
```

Show all Number of rows: 25 Filter rows: Search

	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	id	committee	is_registered
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	1	CERN	0
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	2	EC	1
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	3	UNDP	0
<input type="checkbox"/>	<input type="checkbox"/> Edit	<input type="checkbox"/> Copy	<input type="checkbox"/> Delete	4	WHO	1

+ Options  Check all With selected:  Edit  Copy  Delete

9. Authorized users now can create a new conference using CERN committee (Result: As expected).

localhost/conference\_registration.php x localhost / localhost / mun / com +

localhost/conference\_registration.php

Homepage Conference Important dates Information Hello Ali! Your student ID is: 12 Log out My Profile

Conference registration form

Topic	Language
<input type="text"/>	<input type="text"/>
Committee	Available seat number
<input type="text" value="CERN"/>	<input type="text"/>
<input type="text" value="CERN"/>	<input type="text"/>
<input type="text" value="UNDP"/>	<input type="text"/>
<input type="text" value="ДД.ММ.ГГГГ"/>	<input type="text"/>
Is position paper required?	
<input type="radio"/> Yes <input type="radio"/> No	
Do you want to add additional information that can be seen by all participants?	
<input type="radio"/> Yes <input type="radio"/> No	
<input type="button" value="Register new conference"/>	

## Test №16

'Conference Management' page before file was uploaded by the student:

Screenshot of the 'My Profile' page showing a list of conferences. A red arrow points to the 'Position paper' column for student ID 12.

Student ID	Student name	Country	Position paper	Feedback
2	David Smith	Argentina	File has not been uploaded yet	File has not been uploaded by user yet
8	Kirill Andreev	Australia	File has not been uploaded yet	File has not been uploaded by user yet
5	Birzhan1 Sapuanov	Greece	<a href="#">Download</a>	Выберите файл Файл не выбран <a href="#">Загрузить</a>
4	Miras Kanatov	Russian Federation	<a href="#">Download</a>	Выберите файл Файл не выбран <a href="#">Загрузить</a>
9	Vasily Soloviev	France	File has not been uploaded yet	File has not been uploaded by user yet
10	Muhit Aspahnzhanyov	Luxembourg	File has not been uploaded yet	File has not been uploaded by user yet
1	Ali Maden	Viet Nam	<a href="#">Download</a>	File has been successfully uploaded <a href="#">Delete</a>
12	Ali Mauratov	Netherlands	File has not been uploaded yet	File has not been uploaded by user yet

2. Topic: Ozone layer depletion

Conference id: 9  
Conference language: English  
Position paper: required  
Available seats: 32

## 'My Conferences' tab of the 'My Profile' page before student uploaded the file:

Screenshot of the 'My Profile' page showing the 'My conferences' tab. A red arrow points to the 'Position Paper' column for the conference entry.

Committee	Language	Date	Topic	Country	Position Paper	Delete
WHO	English	2022-02-19	global warming	Netherlands	Выберите файл Файл не выбран <a href="#">Загрузить</a>	

## 1. Student uploads the file (Method).

Screenshot of the 'My Profile' page showing the 'My conferences' tab after the file has been uploaded. A red arrow points to the 'Position Paper' column for the conference entry.

Committee	Language	Date	Topic	Country	Position Paper	Delete
WHO	English	2022-02-19	global warming	Netherlands	File has been successfully uploaded <a href="#">Delete</a>	

## 2. System creates a link named 'Download' (Result: As expected).

Screenshot of the 'Conferences Management' page showing a list of student submissions for a conference. The table includes columns for Student ID, Student name, Country, Position paper, and Feedback.

Student ID	Student name	Country	Position paper	Feedback
2	David Smith	Argentina	File has not been uploaded yet	File has not been uploaded by user yet
8	Kirill Andreev	Australia	File has not been uploaded yet	File has not been uploaded by user yet
5	Birzhan1 Sapuanov	Greece	<a href="#">Download</a>	Выберите файл Файл не выбран <a href="#">Загрузить</a>
4	Miras Kanatov	Russian Federation	<a href="#">Download</a>	Выберите файл Файл не выбран <a href="#">Загрузить</a>
9	Vasily Soloviev	France	File has not been uploaded yet	File has not been uploaded by user yet
10	Muhit Aspahnhanov	Luxembourg	File has not been uploaded yet	File has not been uploaded by user yet
1	Ali Maden	Viet Nam	<a href="#">Download</a>	File has been successfully uploaded <a href="#">Delete</a>
12	Ali Mauratov	Netherlands	<a href="#">Download</a>	Выберите файл Файл не выбран <a href="#">Загрузить</a>

2. Topic: Ozone layer depletion  
 Conference id: 9  
 Conference language: English  
 Position paper: required  
 Available seats: 32  
 Committee: EC  
 Date: 2022-03-30

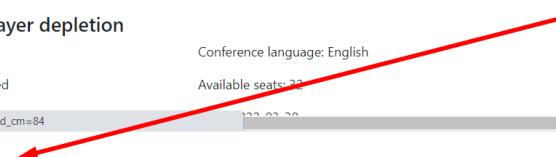


### 3. Teacher clicks that link and successfully downloads the file (Result: As expected).

Screenshot of the 'Conferences Management' page showing the same list of student submissions. The 'Download' link for student ID 12 now has a file attached to it, indicated by a download icon in the browser's address bar.

Student ID	Student name	Country	Position paper	Feedback
2	David Smith	Argentina	File has not been uploaded yet	File has not been uploaded by user yet
8	Kirill Andreev	Australia	File has not been uploaded yet	File has not been uploaded by user yet
5	Birzhan1 Sapuanov	Greece	<a href="#">Download</a>	Выберите файл Файл не выбран <a href="#">Загрузить</a>
4	Miras Kanatov	Russian Federation	<a href="#">Download</a>	Выберите файл Файл не выбран <a href="#">Загрузить</a>
9	Vasily Soloviev	France	File has not been uploaded yet	File has not been uploaded by user yet
10	Muhit Aspahnhanov	Luxembourg	File has not been uploaded yet	File has not been uploaded by user yet
1	Ali Maden	Viet Nam	<a href="#">Download</a>	File has been successfully uploaded <a href="#">Delete</a>
12	Ali Mauratov	Netherlands	<a href="#">Download</a>	Выберите файл Файл не выбран <a href="#">Загрузить</a>

2. Topic: Ozone layer depletion  
 Conference id: 9  
 Conference language: English  
 Position paper: required  
 Available seats: 32



### Test №17

'Conference Management' page before teacher uploaded the file:

Screenshot of the 'My Profile' page showing a table of student submissions. A red arrow points from the 'Feedback' section of the last row to the 'Choose file' input field.

Student ID	Student name	Country	Position paper	Feedback
2	David Smith	Argentina	File has not been uploaded yet	File has not been uploaded by user yet
8	Kirill Andreev	Australia	File has not been uploaded yet	File has not been uploaded by user yet
5	Birzhan1 Sapuanov	Greece	<a href="#">Download</a>	Выберите файл <input type="file"/> Файл не выбран <input type="button" value="Загрузить"/>
4	Miras Kanatov	Russian Federation	<a href="#">Download</a>	Выберите файл <input type="file"/> Файл не выбран <input type="button" value="Загрузить"/>
9	Vasiliy Soloviev	France	File has not been uploaded yet	File has not been uploaded by user yet
10	Muhit Aspahnzhanyov	Luxembourg	File has not been uploaded yet	File has not been uploaded by user yet
1	Ali Maden	Viet Nam	<a href="#">Download</a>	File has been successfully uploaded <input type="button" value="Delete"/>
12	Ali Mauratov	Netherlands	<a href="#">Download</a>	Выберите файл <input type="file"/> Файл не выбран <input type="button" value="Загрузить"/>

2. Topic: Ozone layer depletion  
 Conference id: 9 Conference language: English  
 Position paper: required Available seats: 32  
 Committee: EC Date: 2022-03-30  
 Note: Position papers must be submitted by March 29th

'Feedback' tab of the 'My Profile' page before teacher uploaded the file:

Screenshot of the 'My Profile' page showing the 'Feedback' tab selected. A large red box highlights the 'Your feedback' section, which is currently empty.

1. Teacher uploads file through 'Conference Management' page (Method).

Screenshot of the 'Conference Management' page showing a confirmation dialog box. The message reads: 'Подтвердите действие на странице localhost' and 'File has been successfully uploaded'. An 'OK' button is visible at the bottom right of the dialog.

Screenshot of the 'My Profile' page showing a list of students and their feedback status. A red arrow points from the 'Download' link in the row for student ID 12 to the 'Delete' button.

Student ID	Student name	Country	Position paper	Feedback
2	David Smith	Argentina	File has not been uploaded yet	File has not been uploaded by user yet
8	Kirill Andreev	Australia	File has not been uploaded yet	File has not been uploaded by user yet
5	Birzhan1 Sapuanov	Greece	<a href="#">Download</a>	<input type="button" value="Выберите файл"/> <input type="text" value="Файл не выбран"/> <input type="button" value="Загрузить"/>
4	Miras Kanatov	Russian Federation	<a href="#">Download</a>	<input type="button" value="Выберите файл"/> <input type="text" value="Файл не выбран"/> <input type="button" value="Загрузить"/>
9	Vasily Soloviev	France	File has not been uploaded yet	File has not been uploaded by user yet
10	Muhit Aspahnzhanov	Luxembourg	File has not been uploaded yet	File has not been uploaded by user yet
1	Ali Maden	Viet Nam	<a href="#">Download</a>	File has been successfully uploaded <input type="button" value="Delete"/>
12	Ali Mauratov	Netherlands	<a href="#">Download</a>	File has been successfully uploaded <input type="button" value="Delete"/>

2. Topic: Ozone layer depletion  
 Conference id: 9  
 Conference language: English  
 Position paper: required  
 Available seats: 32  
 Committee: EC  
 Date: 2022-03-30

2. System creates a link named 'Download' in the 'Feedback' tab of the 'My Profile' page (Result: As expected).

Screenshot of the 'My Profile' page showing a list of feedback entries. A red arrow points from the 'Download' link in the row for WHO to the file download interface.

Committee	Date	Your feedback
WHO	2022-02-19	<a href="#">Download</a>

3. Student clicks that link and successfully downloads the file (Result: As expected).

Screenshot of the 'My Profile' page showing a list of feedback entries. A red arrow points from the 'Download' link in the row for WHO to the file download interface.

Committee	Date	Your feedback
WHO	2022-02-19	<a href="#">Download</a>

File download interface showing the document '623cd1e53d0b2....docx'.

## Test №18

1. User uses following configuration and clicks the 'Go' button (Method).

The screenshot shows the phpMyAdmin interface. On the left, there's a tree view of databases: New, information\_schema, mun, mydb, mysql, performance\_schema, regauth-bd, and sys. The 'mun' database is selected. In the main area, the title is 'Exporting tables from "mun" database'. Below it, 'Export method:' has 'Quick - display only the minimal options' selected. Under 'Format:', 'SQL' is chosen. At the bottom right of the export form is a large 'Go' button. Two red arrows point to this 'Go' button: one from the 'mun' database node in the sidebar, and another from the 'Go' button itself.

2. Backup of the database was created and saved on the computer (Result: As expected).

This screenshot shows the same phpMyAdmin interface as the previous one, but now with a file download progress bar at the top right. The bar shows 'mun.sql' and the status 'Загрузка завершена' (Download completed). The rest of the interface is identical to the first screenshot, showing the 'Export' form for the 'mun' database.