



LOVELY
PROFESSIONAL
UNIVERSITY

CA 2 (PROJECT)
Open Source Technology (OST)
INT301

GitHub Link

<https://github.com/vikartansood/INT301>

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1. CODE FOR THE SIGN UP PAGE:

```
<?php

// Include config file
require_once "config.php";

// Define variables and initialize with empty values
$username = $emailid = $password = $confirm_password = "";
$username_err = $emailid_err = $password_err = $confirm_password_err = "";

// Processing form data when form is submitted
if($_SERVER["REQUEST_METHOD"] == "POST"){

    // Validate username
    if(empty(trim($_POST["username"]))){
        $username_err = "Please enter a username.";
    } else{
        // Prepare a select statement
        $sql = "SELECT id FROM users WHERE username = ?";

        if($stmt = mysqli_prepare($link, $sql)){
            // Bind variables to the prepared statement as parameters
            mysqli_stmt_bind_param($stmt, "s", $param_username);

            // Set parameters
            $param_username = trim($_POST["username"]);

            // Attempt to execute the prepared statement
            if(mysqli_stmt_execute($stmt)){
                /* store result */
                mysqli_stmt_store_result($stmt);

                if(mysqli_stmt_num_rows($stmt) == 1){
                    $username_err = "This username is already taken.";
                } else{
                    $username = trim($_POST["username"]);
                }
            } else{
                echo "Oops! Something went wrong. Please try again later.";
            }
        }

        // Close statement
```

```

        mysqli_stmt_close($stmt);
    }

}

// Validate email
if(empty(trim($_POST["emailid"]))) {
    $username_err = "Please enter a valid emailid.";
} else {
    // Prepare a select statement
    $sql = "SELECT id FROM users WHERE emailid = ?";

    if($stmt = mysqli_prepare($link, $sql)){
        // Bind variables to the prepared statement as parameters
        mysqli_stmt_bind_param($stmt, "s", $param_emailid);

        // Set parameters
        $param_emailid = trim($_POST["emailid"]);

        // Attempt to execute the prepared statement
        if(mysqli_stmt_execute($stmt)){
            /* store result */
            mysqli_stmt_store_result($stmt);

            if(mysqli_stmt_num_rows($stmt) == 1){
                $emailid_err = "This email is already taken.";
            } else {
                $emailid = trim($_POST["emailid"]);
            }
        } else {
            echo "Oops! Something went wrong. Please try again later.";
        }

        // Close statement
        mysqli_stmt_close($stmt);
    }
}

// Validate password
if(empty(trim($_POST["password"]))) {
    $password_err = "Please enter a password.";
} elseif(strlen(trim($_POST["password"])) < 6){
    $password_err = "Password must have atleast 6 characters.";
} else {
    $password = trim($_POST["password"]);
}

```

```

// Validate confirm password
if(empty(trim($_POST["confirm_password"]))) {
    $confirm_password_err = "Please confirm password.";
} else {
    $confirm_password = trim($_POST["confirm_password"]);
    if(empty($password_err) && ($password != $confirm_password)) {
        $confirm_password_err = "Password did not match.";
    }
}

// Check input errors before inserting in database
if(empty($username_err) && empty($password_err) &&
empty($confirm_password_err)) {

    // Prepare an insert statement
    $sql = "INSERT INTO users (username,password,emailid) VALUES (?, ?, ?)";

    if($stmt = mysqli_prepare($link, $sql)){
        // Bind variables to the prepared statement as parameters
        mysqli_stmt_bind_param($stmt, "sss", $param_username,
$param_password, $param_emailid);

        // Set parameters
        $param_username = $username;
        $param_emailid = $emailid;
        $param_password = password_hash($password, PASSWORD_DEFAULT); //
Creates a password hash

        // Attempt to execute the prepared statement
        if(mysqli_stmt_execute($stmt)){
            // Redirect to welcome page
            header("location: welcome.php");
        } else {
            echo "Something went wrong. Please try again later.";
        }

        // Close statement
        mysqli_stmt_close($stmt);
    }

}

// Close connection
mysqli_close($link);
}
?>

```

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Sign Up</title>
    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.css">
    <style type="text/css">
        body{ font: 14px sans-serif;}
        .wrapper{ width:400px; padding: 20px;}
    </style>
</head>
<body>
    <div class="wrapper">
        <h2>Sign Up</h2>
        <p>Please fill this form to create an account.</p>
        <form action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]); ?>"
method="post">
            <div class="form-group <?php echo (!empty($username_err)) ?
'has-error' : ''; ?>">
                <label>Username</label>
                <input type="text" name="username" class="form-control"
value="<?php echo $username; ?>">
                <span class="help-block"><?php echo $username_err; ?></span>
            </div>
            <div class="form-group <?php echo (!empty($email_id_err)) ?
'has-error' : ''; ?>">
                <label>Email Address</label>
                <input type="text" name="emailid" class="form-control"
value="<?php echo $emailid; ?>">
                <span class="help-block"><?php echo $emailid_err; ?></span>
            </div>
            <div class="form-group <?php echo (!empty($password_err)) ?
'has-error' : ''; ?>">
                <label>Password</label>
                <input type="password" name="password" class="form-control"
value="<?php echo $password; ?>">
                <span class="help-block"><?php echo $password_err; ?></span>
            </div>
            <div class="form-group <?php echo (!empty($confirm_password_err))
? 'has-error' : ''; ?>">
                <label>Confirm Password</label>
                <input type="password" name="confirm_password"
class="form-control" value="<?php echo $confirm_password; ?>">
                <span class="help-block"><?php echo $confirm_password_err;
?></span>

```

```

        </div>

        <div class="form-group">
            <p>I agree to Terms of Use & Privacy Policy</p>
            <input type="submit" class="btn btn-primary" value="Sign Up">

        </div>

    </div>
</body>
</html>

```

2. CONFIG (PAGE) CODE:

```

<?php
    /* Database credentials. Assuming you are running MySQL
    server with default setting (user 'root' with no password) */
    define('DB_SERVER', 'localhost');
    define('DB_USERNAME', 'root');
    define('DB_PASSWORD', '');
    define('DB_NAME', 'login');

    /* Attempt to connect to MySQL database */
    $link = mysqli_connect(DB_SERVER, DB_USERNAME, DB_PASSWORD, DB_NAME);

    // Check connection
    if($link === false){
        die("ERROR: Could not connect. " . mysqli_connect_error());
    }
?>

```

3. WELCOME PAGE CODE:

```
<?php
    // Initialize the session
    session_start();

?>
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Welcome</title>
    <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.css">
    <style type="text/css">
        body{ font: 14px sans-serif; text-align: center; }
    </style>
</head>
<body>
    <div class="page-header">
        <h1>Hello! New User</b> </h1>
        <h1>Welcome to our site.</h1>
    </div>

</body>
</html>
```

Commands to be used to start services:

Starting Services:

Steps to start the XAMPP server and Apache2 and Mysql services:

Go to **File Manager->Computer->opt->lamp**

Right click open terminal.

Type ls command to list all files and directory.

To open server type:

Sudo ./manager-linux-x64.run

Choose manage server tab.

Start all the services available.

1-Mysql Database

2-ProFTPD

3-Apache web server

Setting up the database:

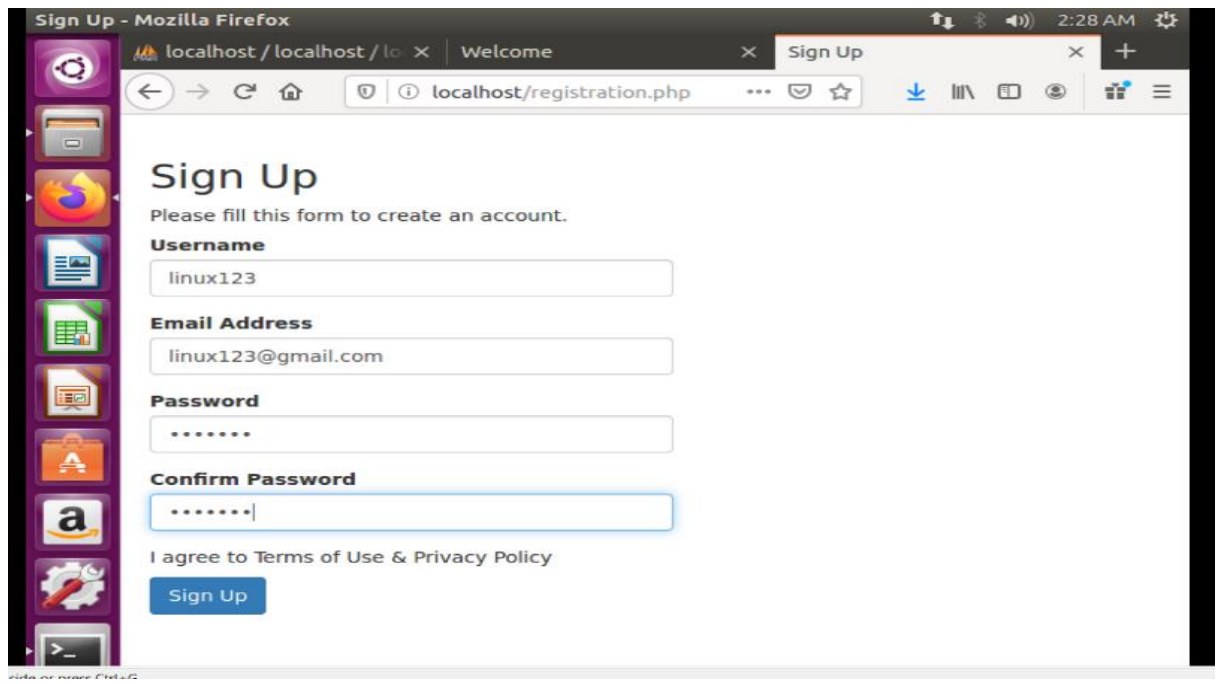
Open the browser.

Type- **localhost/phpmyadmin**

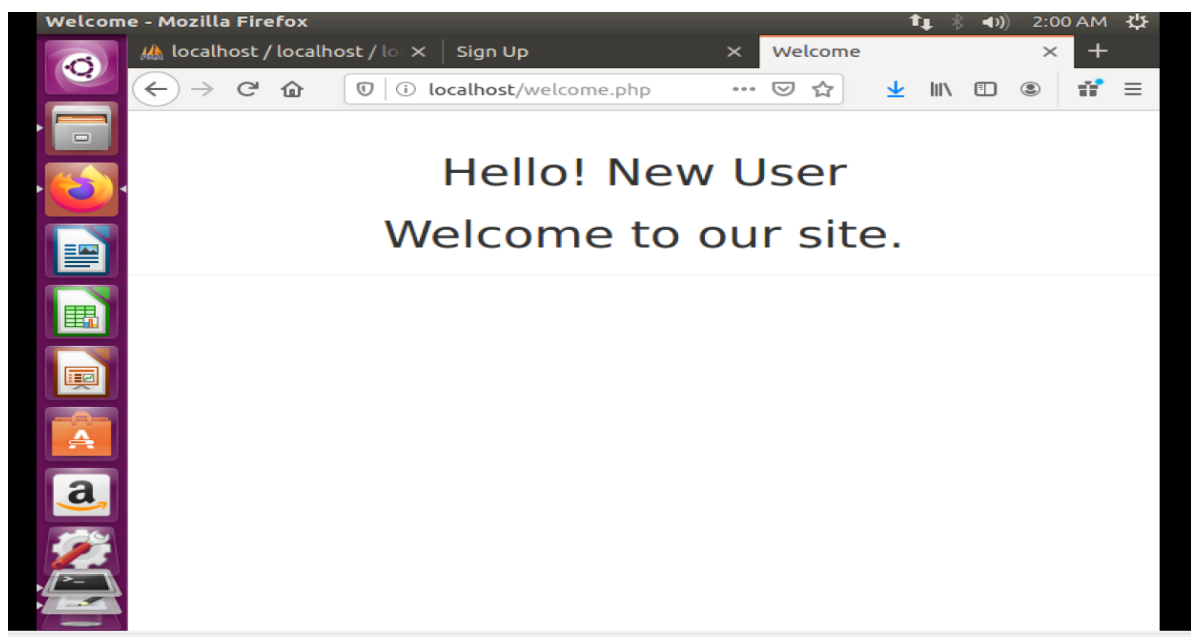
It will open the database. Where we will set up our database.

- Create New Database.
- Create New Table.
- Create Columns.

Some Screenshots of working of Project:



After hitting sign up page welcome page will be displayed:



New details added to the database:

localhost / localhost / login / users | phpMyAdmin 5.0.2 - Mozilla Firefox

localhost / localhost / lo X Welcome X Welcome X +

localhost/phpmyadmin/s ... ☆

Server: localhost » Database: login » Table: users

⏪ Browse Structure SQL Search Insert Export Im ⏩

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25

+ Options

				id	username	emailid	password
<input type="checkbox"/>	Edit	Copy	Delete	1	abcd	abcd@gmail.com	\$2y\$10\$RqAU9EcbtRmgzZfMrRC
<input type="checkbox"/>	Edit	Copy	Delete	2	vikartan	vika@gmail.com	\$2y\$10\$I1x5F6V2DtXdWLGdON
<input type="checkbox"/>	Edit	Copy	Delete	3	jkl	jkl@gmail.com	\$2y\$10\$StW/.E6BsY0QKj8GPwm6
<input type="checkbox"/>	Edit	Copy	Delete	4	uzi	uzi@gmail.com	\$2y\$10\$ogqgBtcwta4cWC7/sxzi
<input type="checkbox"/>	Edit	Copy	Delete	5	qwer	qwer@gmail.com	\$2y\$10\$tSzZCUqq6xv9r24T/71kc
<input type="checkbox"/>	Edit	Copy	Delete	6	linux	linux@gmail.com	\$2y\$10\$BkSH7CPTYL34vTs7ZjVX
<input type="checkbox"/>	Edit	Copy	Delete	7	linux123	linux123@gmail.com	\$2y\$10\$fiZokejiZziUoKe7.oEceOf

☐ Check all With selected: Edit Copy Delete Export

Console Show all | Number of rows: 25

ter inside or press Ctrl+G.

TEST CASES:

1) Check if username is distinct. No two or more usernames should be same.

Sign Up - Mozilla Firefox

localhost / localhost / lo X Sign Up X +

localhost/registration.php

Sign Up

Please fill this form to create an account.

Username

linux|

linux

linux123

Password

Confirm Password

I agree to Terms of Use & Privacy Policy

Sign Up

The following result will be displayed and box will be marked as red and page information will reset.

Sign Up - Mozilla Firefox

localhost / localhost / lo X Sign Up

localhost/regISTRATION.php

Sign Up

Please fill this form to create an account.

Username

This username is already taken.

Email Address

This email is already taken.

Password

Confirm Password

I agree to Terms of Use & Privacy Policy

Sign Up

2) Check if password entered by new user is according to instructions.

Sign Up - Mozilla Firefox

localhost / localhost / lo X Sign Up X +

localhost/registration.php

Sign Up

Please fill this form to create an account.

Username

Email Address

Password

Password must have atleast 6 characters.

Confirm Password

I agree to Terms of Use & Privacy Policy

Sign Up

or press Ctrl+G.

3) Check if password is same as confirm password

Sign Up - Mozilla Firefox

localhost / localhost / lo X Sign Up X +

localhost/registration.php

Sign Up

Please fill this form to create an account.

Username

Email Address

Password

Confirm Password

Password did not match.

I agree to Terms of Use & Privacy Policy

Final results which are updated in the database:

localhost / localhost / login / users | phpMyAdmin 5.0.2 - Mozilla Firefox

localhost / localhost / login / users | Database: login » Table: users

Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Show all | Number of rows: 25

+ Options

				id	username	emailid	password
<input type="checkbox"/>	Edit	Copy	Delete	1	abcd	abcd@gmail.com	\$2y\$10\$RqAU9EcbtRmgzZfMrRC:
<input type="checkbox"/>	Edit	Copy	Delete	2	vikartan	vika@gmail.com	\$2y\$10\$I1x5F6V2DtXdWLGgDON
<input type="checkbox"/>	Edit	Copy	Delete	3	jkl	jkl@gmail.com	\$2y\$10\$StW/.E6BsY0QKj8GPwmf
<input type="checkbox"/>	Edit	Copy	Delete	4	uzi	uzi@gmail.com	\$2y\$10\$ogqgBtcIwta4cWC7/sxzi
<input type="checkbox"/>	Edit	Copy	Delete	5	qwer	qwer@gmail.com	\$2y\$10\$tSzZCq6xv9r24T/71kc
<input type="checkbox"/>	Edit	Copy	Delete	6	linux	linux@gmail.com	\$2y\$10\$BkSH7CPTYL34vTs7ZjVX
<input type="checkbox"/>	Edit	Copy	Delete	7	linux123	linux123@gmail.com	\$2y\$10\$fiZokejiZziUoKe7.oEceOf
<input type="checkbox"/>	Edit	Copy	Delete	8	ramesh	ramesh@gmail.com	\$2y\$10\$tq/758oqLkj93L3eCTN16

Console | Check all | With selected: Edit Copy Delete Export