

# **Mini Project Report On**

## **Online Chatroom implementation in PHP**

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***In***

**COMPUTER SCIENCE & ENGINEERING**

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## **OPERATION ENVIRONMENT**

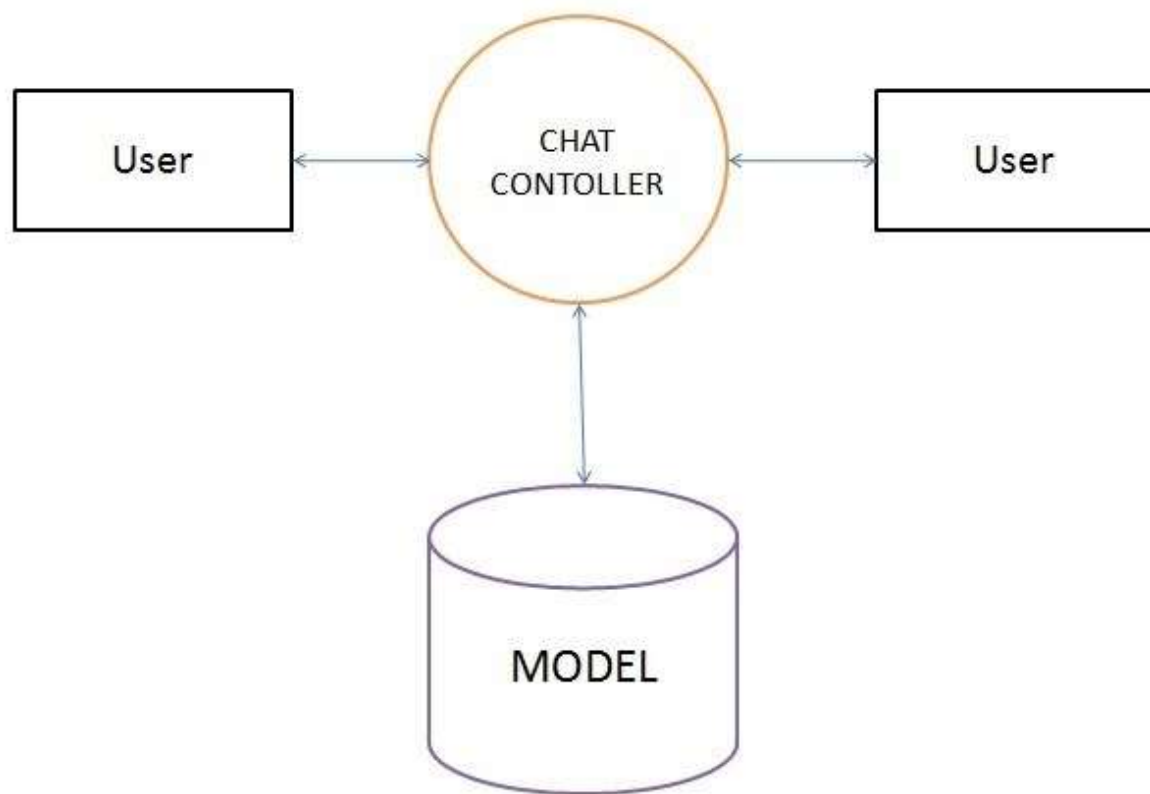
OPERATING SYSTEM	WINDOWS 10,8,7.
MEMORY	1GB RAM OR MORE
HARD DISK SPACE	MINIMUM 3 GB FOR DATABASE USAGE FOR FUTURE
DATABASE	MY SQL
Server	WAMP Server

## Introduction:

A chat application plays a very vital role in online communication today. It plays a key role in success of various platforms like Facebook, Google, WhatsApp, Skype, Hike and many others.

It has also become a part of online support system these days.

This mini project is a simple discussion panel where users can register and login to chat with each other.

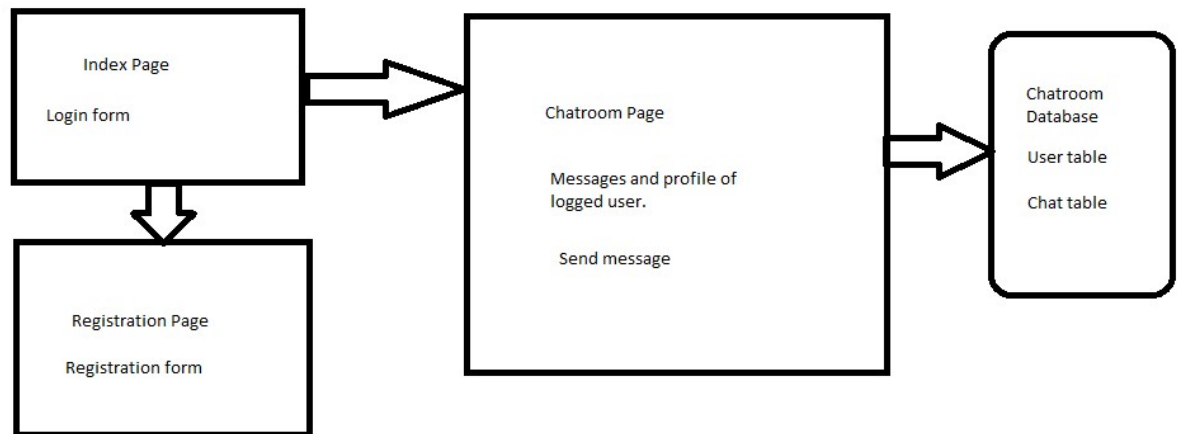


Generally a chat model has a three basic components as you can see in the above flow chart. User, Chat Controller and Model. Role of chat controller is to take the message from one user, get it stored in a model (say a DB table) and route it to the other user.

This project does a simple chatroom implementation using only PHP for server side.

This application has main 5 files:

- Index.php(Home page)
- Register.php(Registration page)
- Server.php(Database connection and retrieval)
- Chatroom.php(Main application)
- Style.css( Formatting CSS)



# Index.php

```
<?php
    include 'server.php';
?>
<!DOCTYPE html>
<html>
<head>
    <title>ChatRoom</title>
</head>
<body background="back.jpg">

    <h1>Welcome to Chat Room!</h1>
    <h2>Login</h2>
    <form action="" method="POST">
        Username<input type="text" name="uid" />
        <br>Password<input type="Password" name="pwd" />
        <input type="submit" value="Login" name="login" />
    </form>
    <h2>Haven't Registered yet ? Register Now!</h2>
    <a href="register.php" ><h2 color="white">Sign Up!</h2></a>

    <h4>Contact: Jayesh Sinha </h4>
    <a href="jsinha2411@gmail.com"></a>
<?php
```

```
session_start();

if (isset($_POST["login"])) {

    # code...

    $uid=$_POST['uid'];

    $pwd=$_POST['pwd'];

    $query="SELECT *FROM USERS WHERE uid='$uid' and pwd='$pwd'";

    $run=$db->query($query);

    if(mysqli_num_rows($run)==1){

        $_SESSION['userid']=$uid;

        header('Location:chatRoom.php');

    }

}

?>

</body>

</html>
```

# Register.php

```
<?php
    include 'server.php';
?>
<!DOCTYPE html>
<html>
<head>
    <title>Register!</title>
</head>

<body>
    <h1>Welcome to ChatRoom! </h1>
    <h2>Fill your info !</h2>
    <form action="" method="POST">
        ID<input type="text" name="uid">
        <br>
        Name<input type="text" name="name">
        <br>
        Age<input type="text" name="age">
        <br>
        Enter Password<input type="password" name="pwd">
        <br>
        Enter mail <input type="text" name="mail">
        <br>
        <input type="submit" value="Submit" name="submit">
```

```
</form>

<?php
    if(isset($_POST["submit"])){
        echo "Your data is saved!";
    }
?>

</body>
</html>
```



## Server.php

### Code:

```
<?php
```

```
    $uid="";
    $name="";
    $age="";
    $mail="";
    $_SESSION['start']="";

    $db=mysqli_connect('localhost','root','','registration');
    if(isset($_POST['submit'])){
        $uid=mysqli_real_escape_string($db, $_POST['uid']);
        $name=mysqli_real_escape_string($db, $_POST['name']);
        $age=mysqli_real_escape_string($db, $_POST['age']);
        $mail=mysqli_real_escape_string($db, $_POST['mail']);
        $pwd=mysqli_real_escape_string($db, $_POST['pwd']);
        echo $uid;
        echo $name;
        $query="INSERT INTO users ( uid,pwd,NAME,age,mail)
VALUES('$uid','$pwd','$name','$age','$mail')";
        $run = $db->query($query);

    }

?>
```

# Chatroom.php

## Code:

```
<?php include 'server.php';

    session_start();

    $userid=$_SESSION['userid'];

?>

<!DOCTYPE html>

<html>

<head> <title>ChatRoom</title>

    <meta http-equiv="refresh" content="5" >

<link rel="stylesheet" href="style.css" media="all" />

</head>

<body>

    <h2><i>Welcome to Chat Room!</i></h2>

    <?php

        $query2="Select * from users where uid='$userid' ";

        $run2=$db->query($query2);

        if ($row=$run2->fetch_assoc()) {

            # code...

            $dn= $row['NAME'];

            $da= $row['age'];

            $dmail=$row['mail'];

        }

    ?>
```

<p>

<h4>Name: <?php echo \$dn?>

<br>

Age: <?php echo \$da ?>

<br>

Mail: <?php echo \$dmail?>

<form action="" method="POST">

<input type="submit" value="Delete MSGS" name="del">

</form>

<?php

if(isset(\$\_POST['del'])){

\$q="DELETE FROM chat1 where uid= '\$userid'";

\$run4=\$db->query(\$q);

}

?>

</h4>

</p>

<div id="container">

<div id="chat\_box">

<?php

\$query1 = "SELECT \* FROM chat1 ORDER BY date1";

\$run = \$db->query(\$query1);

while(\$row = \$run->fetch\_assoc()):

?>

<div id="chat\_data">

<span style="color:green;">

```

        <?php echo $row['uid']; ?>
    </span>
    <span style="color:brown;">
        <?php echo $row['msg']; ?>
    </span>
    <span style="float:right;">
        <?php echo $row['date1']; ?>
    </span> </div>
    <?php endwhile; ?>
</div>
</div>
<form method="post" action="chatroom.php">
    ID:<?php echo $userid ?>

    <textarea name="enter_message" placeholder="Enter Message">
</textarea> <input type="submit" name="chat" value="Send!" />
</form>
<?php if(isset($_POST['chat'])) {

    $msg = $_POST['enter_message'];
    $query = "INSERT INTO chat1 (uid,msg)VALUES('$userid','$msg')";
    $run=$db->query($query); }

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

```

## Style.css

```
*{ padding: 0; margin: 0; border: 0; }

body{ background: silver; }

#container{ width: 40%; background: white; margin: 0 auto; padding: 20px; }

#chat_box{ width: 90%; height: 400px; }

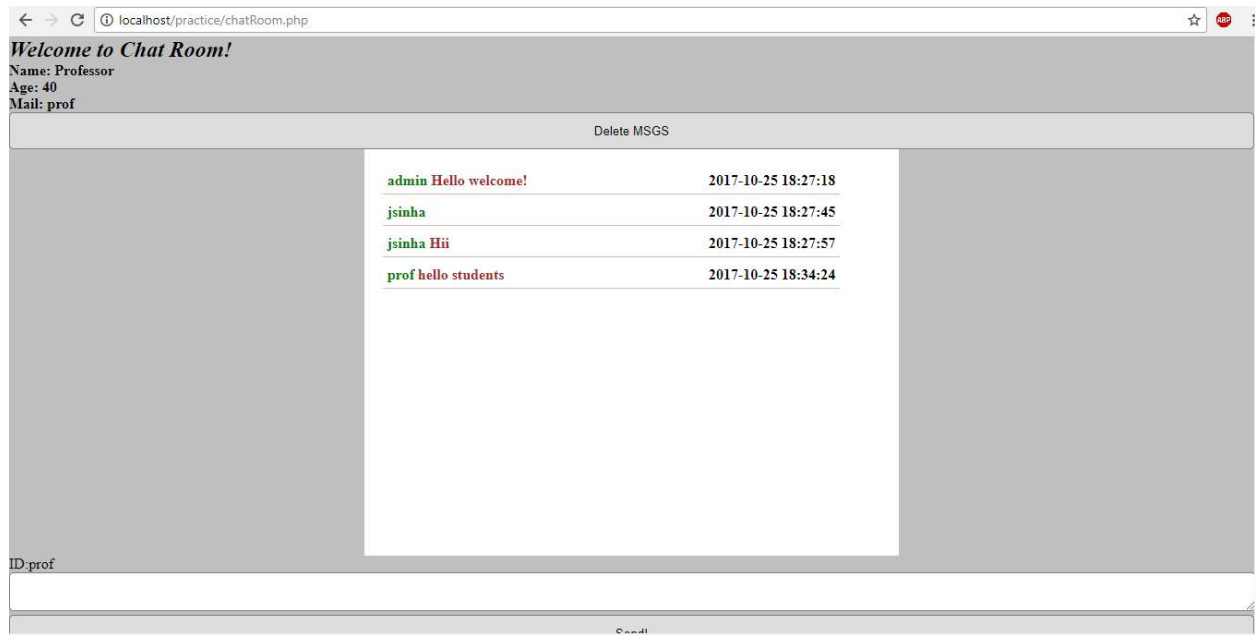
#chat_data{
    width: 100%; padding: 5px; margin-bottom: 5px; border-bottom: 1px solid silver; font-
weight: bold; }

input[type="text"]{ width: 100%; height: 40px; border: 1px solid grey; border-radius:
5px; }

input[type="submit"]{ width: 100%; height: 40px; border: 1px solid grey; border-radius:
5px; }

textarea{ width: 100%; height: 40px; border: 1px solid grey; border-radius: 5px; }
```

## Chatroom screen:



## Index Page



A screenshot of a web browser showing the index page of a chat room application. The browser's address bar displays 'localhost/practice/'. The page has a dark blue background with white text. It features a 'Welcome to Chat Room!' heading, a 'Login' section with input fields for 'Username' (containing 'prof') and 'Password', and a 'Login' button. Below the login section is a link 'Haven't Registered yet ? Register Now!' and a 'Sign Up!' link in purple. At the bottom, it says 'Contact: Jayesh Sinha'.

← → ↻ ⓘ localhost/practice/

# Welcome to Chat Room!

## Login

Username

Password

[Haven't Registered yet ? Register Now!](#)

[Sign Up!](#)

Contact: Jayesh Sinha

## Registration Page:



A screenshot of a web browser showing the registration page of a chat room application. The browser's address bar displays 'localhost/practice/register.php'. The page has a white background with black text. It features a 'Welcome to ChatRoom!' heading, a 'Fill your info !' section, and a registration form with input fields for 'ID', 'Name', 'Age', 'Enter Password', and 'Enter mail'. A 'Submit' button is at the bottom.

← → ↻ ⓘ localhost/practice/register.php

# Welcome to ChatRoom!

## Fill your info !

ID

Name

Age


Enter Password

Enter mail

## Database Design

Two tables are defined in the database:

### Table Users Structure:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	uid 	varchar(10)	latin1_swedish_ci		No	None		
2	pwd	varchar(5)	latin1_swedish_ci		No	None		
3	NAME	varchar(10)	latin1_swedish_ci		No	None		
4	age	int(10)			No	None		
5	mail	varchar(10)	latin1_swedish_ci		Yes	NULL		

### Table Chats Structure:

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra
1	uid	varchar(10)	latin1_swedish_ci		No	None		
2	msg	tinytext	latin1_swedish_ci		Yes	NULL		
3	date1	timestamp			No	CURRENT_TIMESTAMP		

```
CREATE TABLE `chat1` (  
  `uid` varchar(10) NOT NULL,  
  `msg` tinytext,  
  `date1` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP  
) ENGINE=MyISAM DEFAULT CHARSET=latin1;
```

```
CREATE TABLE `users` (  
  `uid` varchar(10) NOT NULL,  
  `pwd` varchar(5) NOT NULL,  
  `NAME` varchar(20) NOT NULL,  
  `age` int(10) NOT NULL,  
  `mail` varchar(20) DEFAULT NULL  
) ENGINE=MyISAM DEFAULT CHARSET=latin1;
```



## Conclusion

This website provides a simplified version of Chatroom application which will benefit the any intranet based systems.

It can be used by universities and local intranet groups to easily chat and discuss about anything.

It shows a page with all the necessary info about the person who is logged in.

Future additions can be video conferencing and share of documents.

Group chat where students can discuss various issues of engineering can be added to this project thus making it more interactive more user friendly and project which fulfills each users need in the best way possible.