

Experiment No. 7

Title: E-mail handling using PHP

Batch: A3

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Experiment No.:7

Aim: To perform E-mail handling using PHP

Output (Code with result Snapshot)

Code:

Index.php

```
<?php
use PHPMailer\PHPMailer\PHPMailer;
use PHPMailer\PHPMailer\SMTP;
use PHPMailer\PHPMailer\Exception;

require_once __DIR__ . '/vendor/phpmailer/src/Exception.php';
require_once __DIR__ . '/vendor/phpmailer/src/PHPMailer.php';
require_once __DIR__ . '/vendor/phpmailer/src/SMTP.php';

// passing true in constructor enables exceptions in PHPMailer
$mail = new PHPMailer(true);

try {
    // Server settings
    $mail->SMTPDebug = SMTP::DEBUG_SERVER; // for detailed debug output
    $mail->isSMTP();
    $mail->Host = 'smtp.gmail.com';
    $mail->SMTPAuth = true;
    $mail->SMTPSecure = PHPMailer::ENCRYPTION_STARTTLS;
    $mail->Port = 587;

    $mail->Username = 'keyur.n.patel100@gmail.com'; // YOUR gmail email
    $mail->Password = 'qjrefyjqrdbeytkm'; // YOUR gmail password

    // Sender and recipient settings
    $mail->setFrom('keyur.n.patel100@gmail.com', 'Example Mail');
    $mail->addAddress('keyur20@somaiya.edu', 'Keyur Patel');
    $mail->addReplyTo('keyur20@somaiya.edu', 'Example Sender'); // to set the reply to

    // Setting the email content
    $mail->IsHTML(true);
    $mail->Subject = "Hi this is my first mail using PHPmailer";
    $mail->Body = 'Hi my name is keyur and this is my first mail using phpmailer.
<b>Gmail</b> SMTP email body.';
    $mail->AltBody = 'Plain text message body for non-HTML email client. Gmail SMTP email
body.';
```

```

$mail->send();
echo "Email message sent.";
} catch (Exception $e) {
    echo "Error in sending email. Mailer Error: {$mail->ErrorInfo}";
}
?>

```

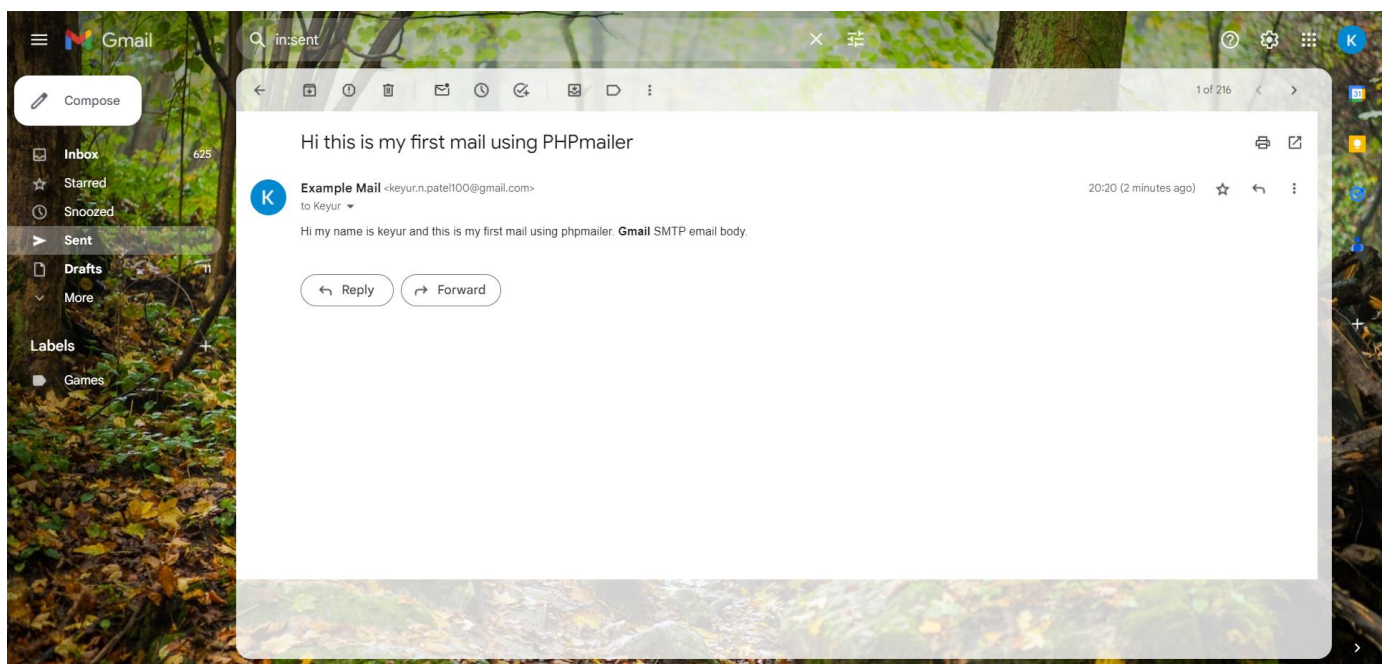
Output:

```

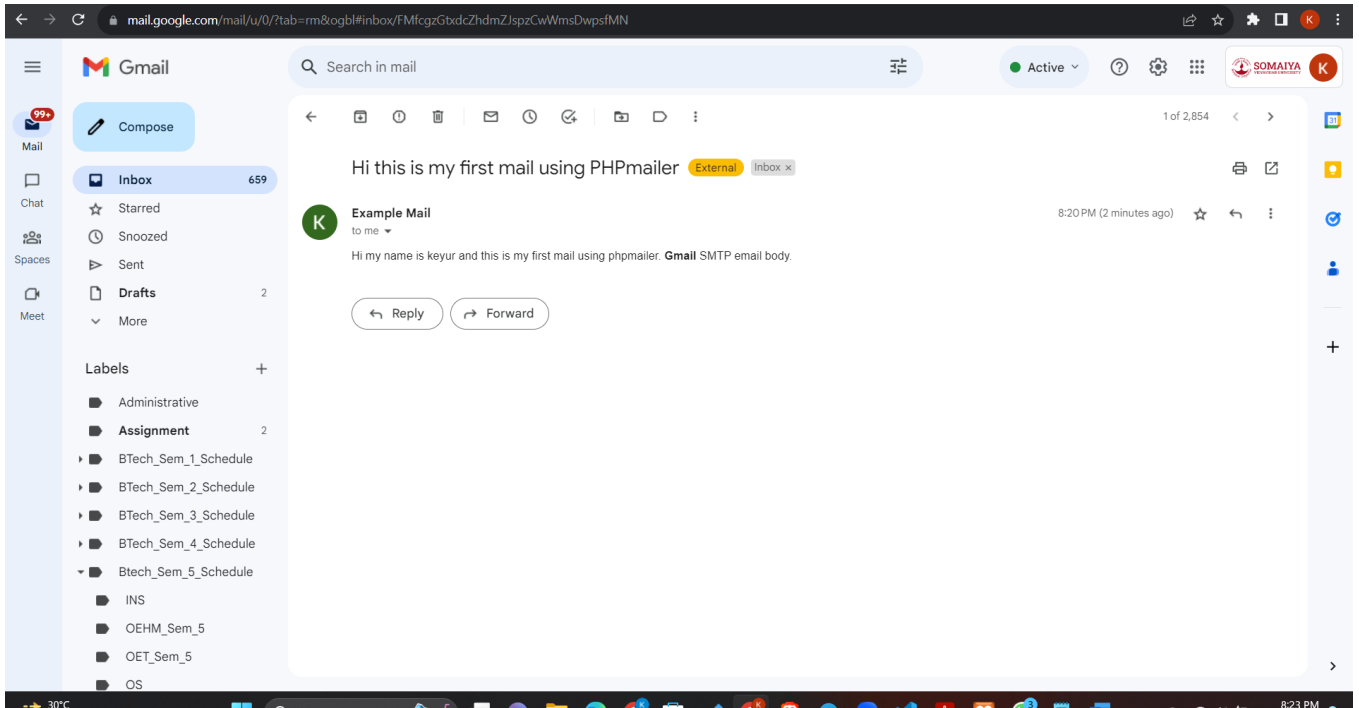
localhost/gmail-email/index.php
2023-10-15 14:50:29 SERVER -> CLIENT: 220 smtp.gmail.com ESMTP a11-20020aa780cb000000b00690ca67d429sm16398632pfn.100 - gsmt
2023-10-15 14:50:29 CLIENT -> SERVER: EHLO localhost
2023-10-15 14:50:29 SERVER -> CLIENT: 250-smtp.gmail.com at your service, [49.36.107.143]250-SIZE 35882577250-SBITMIME250-STARTTLS250-ENHANCEDSTATUSCODES250-PIPELINING250-CHUNKING250-SMTPUTF8
2023-10-15 14:50:29 CLIENT -> SERVER: STARTTLS
2023-10-15 14:50:30 SERVER -> CLIENT: 220 2.0.0 Ready to start TLS
2023-10-15 14:50:30 CLIENT -> SERVER: EHLO localhost
2023-10-15 14:50:30 SERVER -> CLIENT: 250-smtp.gmail.com at your service, [49.36.107.143]250-SIZE 35882577250-SBITMIME250-AUTH LOGIN PLAIN XOAUTH2 PLAIN-CLIENTTOKEN OAUTHBEARER XOAUTH250-ENHANCEDSTATUSCODES250-PIPELINING250-CHUNKING250-SMTPUTF8
2023-10-15 14:50:30 CLIENT -> SERVER: AUTH LOGIN
2023-10-15 14:50:30 SERVER -> CLIENT: 334 VXNlcm5hbWU6
2023-10-15 14:50:30 CLIENT -> SERVER: [credentials hidden]
2023-10-15 14:50:31 SERVER -> CLIENT: 334 UGFzc3dvcmQ6
2023-10-15 14:50:31 CLIENT -> SERVER: [credentials hidden]
2023-10-15 14:50:31 SERVER -> CLIENT: 235 2.7.0 Accepted
2023-10-15 14:50:31 CLIENT -> SERVER: MAIL FROM: <keyur.n.patel100@gmail.com>
2023-10-15 14:50:31 SERVER -> CLIENT: 250 2.1.0 OK a11-20020aa780cb000000b00690ca67d429sm16398632pfn.100 - gsmt
2023-10-15 14:50:31 CLIENT -> SERVER: RCPT TO: <keyur20@somaiya.edu>
2023-10-15 14:50:32 SERVER -> CLIENT: 250 2.1.5 OK a11-20020aa780cb000000b00690ca67d429sm16398632pfn.100 - gsmt
2023-10-15 14:50:32 CLIENT -> SERVER: DATA
2023-10-15 14:50:32 SERVER -> CLIENT: 354 Go ahead a11-20020aa780cb000000b00690ca67d429sm16398632pfn.100 - gsmt
2023-10-15 14:50:32 CLIENT -> SERVER: Date: Sun, 15 Oct 2023 16:50:29 +0200
2023-10-15 14:50:32 CLIENT -> SERVER: To: Keyur Patel <keyur20@somaiya.edu>
2023-10-15 14:50:32 CLIENT -> SERVER: From: Example Mail <keyur.n.patel100@gmail.com>
2023-10-15 14:50:32 CLIENT -> SERVER: Reply-To: Example Sender <keyur20@somaiya.edu>
2023-10-15 14:50:32 CLIENT -> SERVER: Subject: Hi this is my first mail using PHPMailer
2023-10-15 14:50:32 CLIENT -> SERVER: Message-ID: <XNQr5fT08kQjgFUFRC2gEr7WmqX3n4V170yhWBRra0@localhost>
2023-10-15 14:50:32 CLIENT -> SERVER: X-Mailer: PHPMailer 6.1.7 (https://github.com/PHPMailer/PHPMailer)
2023-10-15 14:50:32 CLIENT -> SERVER: MIME-Version: 1.0
2023-10-15 14:50:32 CLIENT -> SERVER: Content-Type: multipart/alternative;
2023-10-15 14:50:32 CLIENT -> SERVER: boundary="b1_XNQr5fT08kQjgFUFRC2gEr7WmqX3n4V170yhWBRra0"
2023-10-15 14:50:32 CLIENT -> SERVER: Content-Transfer-Encoding: 8bit
2023-10-15 14:50:32 CLIENT -> SERVER:
2023-10-15 14:50:32 CLIENT -> SERVER: This is a multi-part message in MIME format.
2023-10-15 14:50:32 CLIENT -> SERVER:
2023-10-15 14:50:32 CLIENT -> SERVER: --b1_XNQr5fT08kQjgFUFRC2gEr7WmqX3n4V170yhWBRra0
2023-10-15 14:50:32 CLIENT -> SERVER: Content-Type: text/plain; charset=us-ascii
2023-10-15 14:50:32 CLIENT -> SERVER:
2023-10-15 14:50:32 CLIENT -> SERVER: Plain text message body for non-HTML email client. Gmail SMTP email body.
2023-10-15 14:50:32 CLIENT -> SERVER:
2023-10-15 14:50:32 CLIENT -> SERVER: --b1_XNQr5fT08kQjgFUFRC2gEr7WmqX3n4V170yhWBRra0
2023-10-15 14:50:32 CLIENT -> SERVER: Content-Type: text/html; charset=us-ascii
2023-10-15 14:50:32 CLIENT -> SERVER:
2023-10-15 14:50:32 CLIENT -> SERVER: Hi my name is keyur and this is my first mail using phpmailer. <b>Gmail</b> SMTP email body.
2023-10-15 14:50:32 CLIENT -> SERVER:
2023-10-15 14:50:32 CLIENT -> SERVER: --b1_XNQr5fT08kQjgFUFRC2gEr7WmqX3n4V170yhWBRra0--
2023-10-15 14:50:32 CLIENT -> SERVER:
2023-10-15 14:50:32 CLIENT -> SERVER:
2023-10-15 14:50:33 SERVER -> CLIENT: 250 2.0.0 OK 1697381434 a11-20020aa780cb000000b00690ca67d429sm16398632pfn.100 - gsmt
2023-10-15 14:50:33 CLIENT -> SERVER: QUIT
2023-10-15 14:50:33 SERVER -> CLIENT: 221 2.0.0 closing connection a11-20020aa780cb000000b00690ca67d429sm16398632pfn.100 - gsmt
Email message sent.

```

Sender: keyur.n.patel100@gmail.com



Receiver: keyur20@somaiya.edu



Questions: -

1. What are the advantages of using PHPMailer over mail() function to send mail in PHP?

Answer: First of all, PHPMailer provides an object-oriented interface, whereas mail() is not object oriented. PHP developers generally hate to create \$headers strings while sending emails using the mail() function because they require a lot of escaping. PHPMailer makes this a breeze. Developers also need to write dirty code (escaping characters, encoding and formatting) to send attachments and HTML based emails when using the mail() function, whereas PHPMailer makes this painless.

Also, the mail() function requires a local mail server to send out emails, which is not always trivial to set up. PHPMailer can use a non-local mail server (SMTP) if you have authentication.

Further advantages include:

It can print various kinds of error messages in more than 40 languages when it fails to send an email. It has integrated SMTP protocol support and authentication over SSL and TLS.

It can send an alternative plain-text version of email for non-HTML email clients. It has a very active developer community that keeps it secure and up to date.

2. How to use PHP Mailer with Gmail?

Answer: Step-1: Installation of Library PHPMailer –

To install PHPMailer in PHP Project, run the below shown composer command
– composer require phpmailer / phpmailer

Step-2: Load the Composer’s Autoloader -

```
require „vendor/autoload.php“;
```

Step-3: Create a PHPMailer class object –

```
$mail = PHPMailer()
```

Step-4: Configure Server Setting –

```
$mail->SMTPDebug = 2;           // Enable verbose debug output
$mail->isSMTP();                // Set mailer to use SMTP
$mail->Host = 'smtp.gfg.com;';   // Specify main SMTP server
$mail->SMTPAuth = true;         // Enable SMTP authentication
$mail->Username = 'user@gfg.com'; // SMTP username
$mail->Password = 'password';    // SMTP password

$mail->SMTPSecure = 'tls';       // Enable TLS encryption, 'ssl' also accepted
$mail->Port = 587;               // TCP port to connect to
```

Outcomes: CO4: Demonstrate the use advanced features such as REST API, email handling, Localization and internalization in PHP.

Conclusion: (Conclusion to be based on the objectives and outcomes achieved)

Thus, from this experiment we have understood about the phpmailer function .

Grade: AA / AB / BB / BC / CC / CD/DD

Signature of faculty in-charge

References:

Books:

1. Thomson PHP and MySQL Web Development Addison-Wesley Professional , 5th Edition 2016.
2. Peter MacIntyre, Kevin Tatroe Programming PHP O'Reilly Media, Inc, 4th Edition 2020
3. Frank M. Kromann Beginning PHP and MySQL: From Novice to Professional, Apress 1st Edition, 2018
4. <https://www.w3schools.com/>

