Object-oriented principles were applied in the project through the use of external libraries like PHPMailer. By creating an object using new PHPMailer(true), and configuring it using methods like $mail->isSMTP() and $mail->send(), the code demonstrates encapsulation and abstraction. The image provided illustrates this use of OO principles from our source code:

|  |
| --- |
| $mail = new PHPMailer(true);  // Passing `true` enables exceptions  try {      //Server settings      $mail->isSMTP();  // Setting mailer to use SMTP      $mail->Host = 'smtp.gmail.com';  // Setting Gmail's SMTP server      $mail->SMTPAuth = true;  // Enabling SMTP authentication      $mail->Username = 'anastasiosdrog@gmail.com';  // Your Gmail address      $mail->Password = '???? ???? ???? ????';  // Your app-specific password (if 2FA is enabled)      $mail->SMTPSecure = PHPMailer::ENCRYPTION\_STARTTLS;  // Enable TLS encryption      $mail->Port = 587;  // TCP port to connect to (587 for Gmail)      //Recipients      $mail->setFrom('anastasiosdrog@gmail.com', "Dragon's Pizzeria");// Sender's email      $mail->addAddress($email);  // Recipient's email      $OTP = rand(100000, 999999); //creating a 6 digit code for authentication which will be sent to the user's email.      $OTP\_str = strval($OTP);     foreach ($dec\_data as $index => $user)      {          if($user['email'] === $email)          {              $dec\_data[$index]['OTP'] = $OTP\_str;              $\_SESSION['email'] = $user['email'];              break;          }        }      $mail->isHTML(true);  // Setting email format to HTML      $mail->Subject = 'Request to re-enable your password.';      $mail->Body = 'Please enter the 6 digit code provided to you, in the link sent, to re-enable your new password.<br>Code: '. $OTP;      // Send the email      $mail->send();      //updating the json file data      $json\_en = json\_encode($dec\_data, JSON\_PRETTY\_PRINT);      file\_put\_contents($json\_file, $json\_en);      //header("Location: ../htmlfiles/OTP.html");      exit();  } catch (Exception $e) {      echo "Message could not be sent. Mailer Error: {$mail->ErrorInfo}";  } |