

E-GAUNG

Welcome to the E-Gaming Hub, your one-stop destination for an immersive gaming experience.

COHNDSE233F – 025

COHNDSE233F - 027

COHNDSE233F - 048

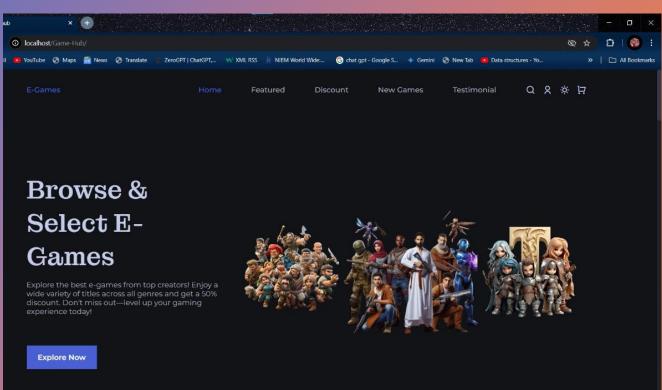
COHNDSE233F - 084

COHNDSE233F - 092



- Introduction.
- Used Technologies.
- Features of the system.
- Security Features.





INTRODUCTION

A Gaming Platform Website is a platform where game developers can list games for customers to browse and buy online. It helps the platform manage sales and track purchases, making the process simple for both developers and gamers.

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USED TECHNOLOGIES



PHP powers the backend functionality, handling user interactions and data management.



MySQL serves as the database, securely storing user information and game data.



HTML, JS and CSS create the user interface, ensuring a seamless and visually appealing experience.



Visual Studio Code is the development environment, enhancing productivity and streamlining the coding process.

FEATURES OF THE E-GAMING HUB



Sign Up

Create an account to personalize your gaming experience and access exclusive features.

Edit Account

Manage your profile information, update your preferences, and customize your settings.

Log In

Log in to your account to access your game library, purchase games, and connect with other gamers.

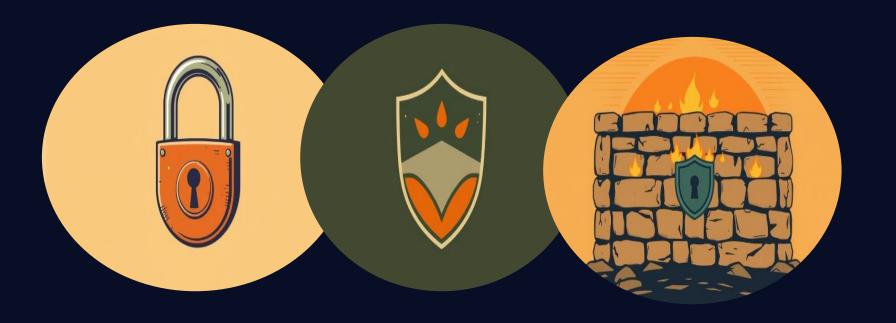
Delete Account

Safely and securely delete your account if you no longer wish to use the platform.

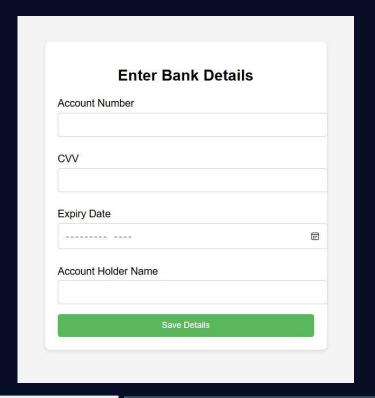
Bank Details Verifications

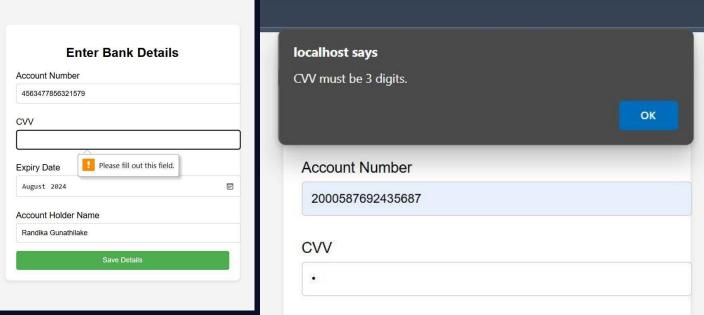
Verify bank details and ensure secure transactions.

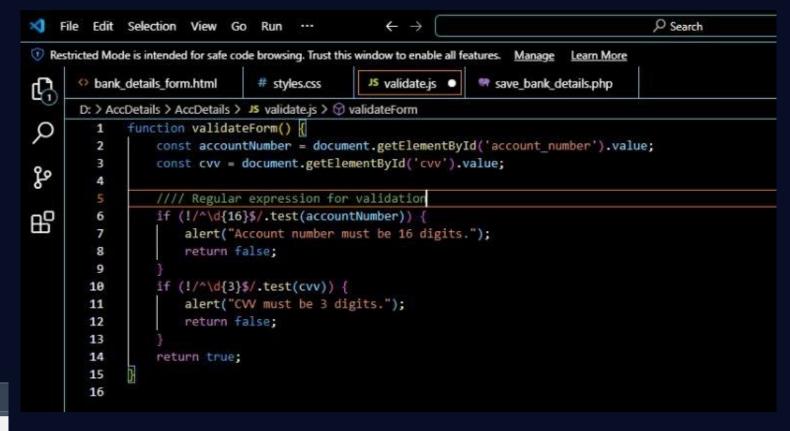
SECURITY FEATURES

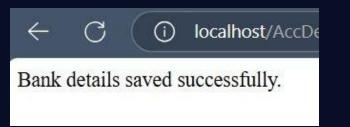


Bank Details Verifications

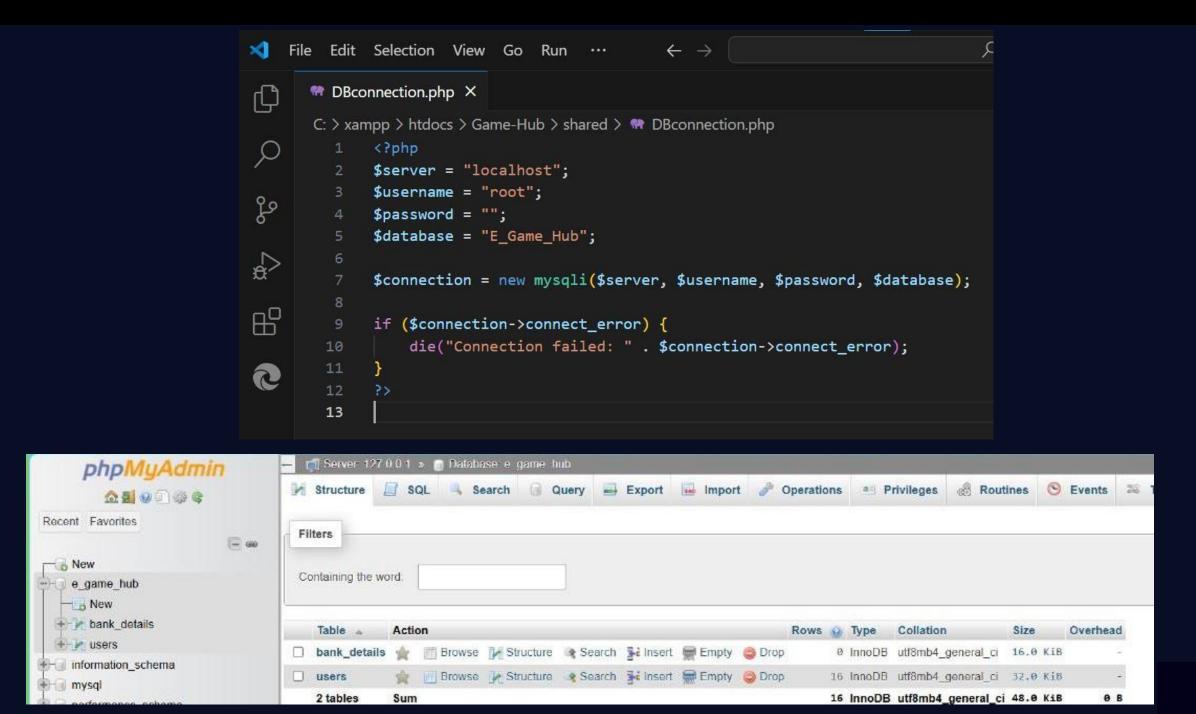




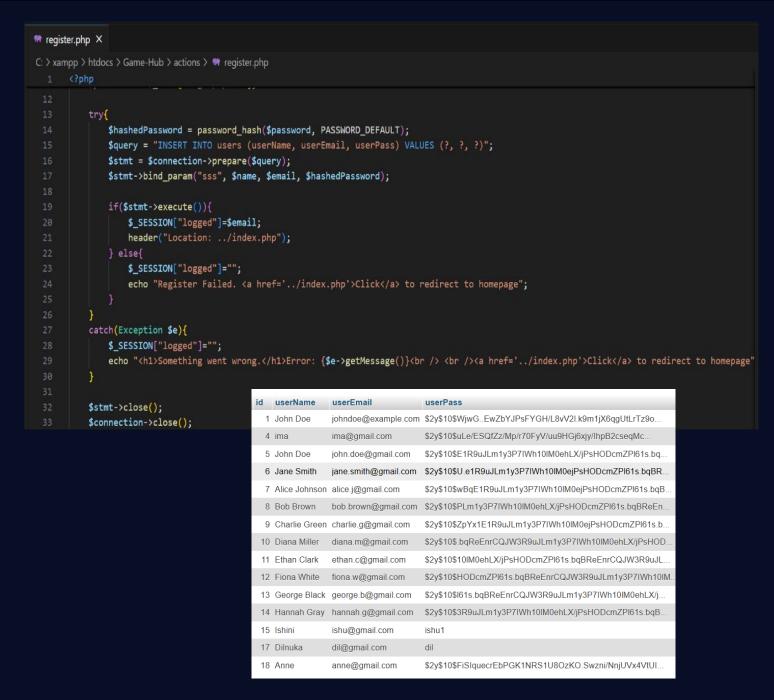




DATABSE & DATABASE CONNECTION



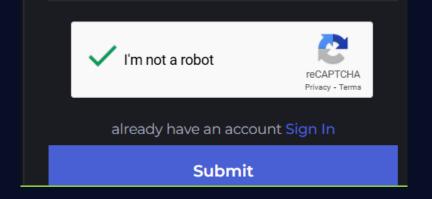
Secure Authentication and Authorization: password salt, block password



```
C: > xampp > htdocs > Game-Hub > actions > 💏 register.php
      <?php
          $name = $_POST["SignUp-Name"];
          $email = $ POST["SignUp-email"];
          $password = $_POST["SignUp-pass"];
 12
          try{
              $hashedPassword = password_hash($password, PASSWORD_DEFAULT);
              $query = "INSERT INTO users (userName, userEmail, userPass) VALUES (?, ?
              $stmt = $connection->prepare($query);
              $stmt->bind_param("sss", $name, $email, $hashedPassword);
              if($stmt->execute()){
                   $ SESSION["logged"]=$email;
                   header("Location: ../index.php");
               } else{
                   $_SESSION["logged"]="";
                   echo "Register Failed. <a href='../index.php'>Click</a> to redirect
          catch(Exception $e){
              $_SESSION["logged"]="";
               echo "<h1>Something went wrong.</h1>Error: {$e->getMessage()}<br /> <br</pre>
```

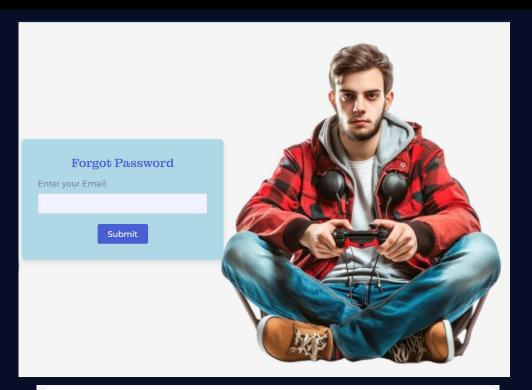
CAPTCHA

```
C: > xampp > htdocs > Game-Hub > components > 💝 registerForm.php
       <form action="./actions/register.php" method="post" class="login__form grid" onSubmit="return registerValidate();" id</pre>
           <div class="SignUp_group grid">
               <script src="https://www.google.com/recaptcha/api.js" async defer></script>
               <script>
                   function onSubmit(token) {
                      if (token) {
                           // reCAPTCHA was verified successfully
                           const submitButton = document.getElementById("loginsubmit");
                           submitButton.disabled = false;
                           return true;
                       } else {
                           // reCAPTCHA verification failed, prevent form submission
                           alert("Captcha failed");
 42
                           return false; // Explicitly return false to prevent form submission
               </script>
               <div class="g-recaptcha"
 47
                   data-sitekey="6LfP0FwqAAAAAPD9IMCmikdzqEU_weMi_c6-z0wD"
                   data-callback="onSubmit"
                   data-size="normal"
                   style="margin-inline: auto;"></div>
 52
           </div>
          <div>
               <span class="SignUp_signIn">
                   already have an account <a href="#" onClick="authChange('login');">Sign In</a>
               </span>
               <button type="submit" id="loginsubmit" class="SignUp button button" name="submit" disabled>Submit
           </div>
```



MULTI-FACTOR AUTHENTICATION

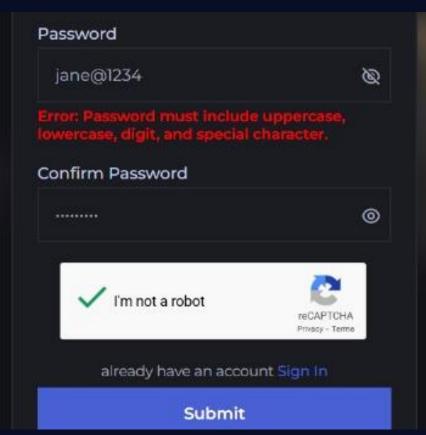
```
C: > xampp > htdocs > Game-Hub > 💝 forgotPassword.php
      $step = $_SESSION['step']; // Get the current step from session
      $message = "";
 11
 12
      if (isset($_POST['submit'])) {
 13
          if ($step == 1 && isset($_POST['email'])) {
 15
               $email = $_POST['email'];
               // Check if the email exists in the database
 17
              $query = "SELECT * FROM users WHERE userEmail = '$email'";
 18
              $result = $connection->query($query);
               if ($result->num rows > 0) {
 21
 22
                   $verificationCode = rand(100000, 999999); // Generate verification code
                  $_SESSION['verificationCode'] = $verificationCode;
 23
                   $_SESSION['resetEmail'] = $email;
                  // For demo purposes, display the code (replace with email logic)
                   $message = "Verification code sent to your email: $verificationCode";
 27
                  $ SESSION['step'] = 2; // Move to Step 2 (Verification Code)
               } else {
                   $message = "Email not found!";
 30
           } elseif ($step == 2 && isset($_POST['code'])) {
 32
              $enteredCode = $_POST['code'];
               if ($enteredCode == $ SESSION['verificationCode']) {
                   // Verification successful, redirect to updatePassword.php
                  header("Location: updatePassword.php");
                  exit();
                else {
```



Enter the W	erification Code sent to your
email:	erification code sent to your
	Submit

Validate inputs in both frontend and backend, use regex

```
registerForm.php
                     😭 login.php
                                    JS validations.js X ** register.php
C: > xampp > htdocs > Game-Hub > assets > js > JS validations.js > ...
       // JavaScript for password validation and strength check
       function checkPasswordStrength() {
         const password = document.getElementById("SignUp-pass").value;
 22
         const strengthText = document.getElementById("passwordHelp");
         let strength = 0;
         // Check for minimum length first
        if (password.length < 8) {
             strengthText.style.color = "red";
             strengthText.textContent = "Error: Password must be at least 8 characters long.";
             return: // Exit the function early if the password is too short
         // Additional regex validation for password complexity
         const regexPattern = /^{?=.*[a-z]}(?=.*[A-z])(?=.*d)(?=.*[@$!%*?&])[A-za-zd@$!%*?&]{8,}$/;
         // Check the regex for complexity
        if (!regexPattern.test(password)) {
             strengthText.style.color = "red";
             strengthText.textContent = "Error: Password must include uppercase, lowercase, digit, and special character.";
             return; // Exit if regex does not match
 42
         // Check for different criteria
        if (/[A-Z]/.test(password)) strength += 1; // At least one uppercase letter
        if (/[a-z]/.test(password)) strength += 1; // At least one lowercase letter
        if (/\d/.test(password)) strength += 1; // At least one digit
        if (/[\W_]/.test(password)) strength += 1; // At least one special character
```



Log all events (errors, information) into a logfile

```
1 [2024-11-29 01:03:35] Direct access attempt to login.php
2 [2024-11-29 01:04:26] Login attempt for email: ishu@gmail.com
3 [2024-11-29 01:04:26] User not found: ishu@gmail.com.
4 [2024-11-29 01:12:33] Direct access attempt to login.php
5 [2024-11-29 01:27:59] Direct access attempt to login.php
6 [2024-11-29 01:37:24] Login attempt for email: seni@gmail.com
7 [2024-11-29 01:37:24] Invalid login attempt for email: seni@gmail.com. Remaining attempts: 4.
8 [2024-11-29 01:38:53] Login attempt for email: Seni@gmail.com
9 [2024-11-29 01:38:53] Successful login for email: Seni@gmail.com.
10 [2024-11-29 20:41:22] Direct access attempt to login.php
11 [2024-11-29 20:42:17] Login attempt for email: ishu@gmail.com
```

Secure Coding Practices for Session Management

```
common.php X
C: > xampp > htdocs > Game-Hub > shared > 💏 common.php
       <?php
       session start();
       if (session_status() === PHP_SESSION_NONE) {
           session start();
       // Set session lifetime (15 minutes)
       $sessionLifetime = 1 * 60; // 15 minutes in seconds
       // Check if session variable 'LAST ACTIVITY' is set
 10
       if (isset($_SESSION['LAST_ACTIVITY'])) {
 11
          // Calculate session duration
 12
           if (time() - $_SESSION['LAST_ACTIVITY'] > $sessionLifetime) {
 13
               // Last activity was more than 15 minutes ago, destroy the session
 14
               session_unset(); // Remove all session variables
 15
               session destroy(); // Destroy the session
 16
               header("Location: login.php"); // Redirect to the login page
 17
               exit();
 18
 19
 20
 21
       // Update last activity time
 22
       $ SESSION['LAST_ACTIVITY'] = time(); // Update last activity timestamp
       ?>
```

SQL injection preventor

```
nogin.php X
    <?php
                                                                                      C: > xampp > htdocs > Game-Hub > actions > 💏 login.php
12
        try{
                                                                                       35
           $hashedPassword = password hash($password, PASSWORD DEFAULT);
                                                                                       36
                                                                                               // Fetch user data using prepared statement
           $query = "INSERT INTO users (userName, userEmail, userPass) VALUES (?, ?, ?)";
                                                                                               $query = "SELECT * FROM users WHERE userEmail = ?";
           $stmt = $connection->prepare($query);
                                                                                       37
           $stmt->bind_param("sss", $name, $email, $hashedPassword);
                                                                                              $stmt = $connection->prepare($query);
                                                                                       38
                                                                                               $stmt->bind param("s", $email);
                                                                                       39
           if($stmt->execute()){
                                                                                              $stmt->execute();
               $ SESSION["logged"]=$email;
                                                                                       40
               header("Location: ../index.php");
                                                                                              $result = $stmt->get result();
                                                                                       41
           } else{
                                                                                       42
               $_SESSION["logged"]="";
               echo "Register Failed. <a href='../index.php'>Click</a> to redirect to homepage";
        catch(Exception $e){
           $_SESSION["logged"]="";
           echo "<h1>Something went wrong.</h1>Error: {$e->getMessage()}<br /> <br /><a href='../index.php'>Click</a> to redirect to homepage"
        $stmt->close();
        $connection->close();
```

Brute Force Attack



```
31
32  // Anti-brute-force setup
33  $max_failed_attempts = 5;
34  $lockout_duration = 15 * 60; // 15 minutes
35
```