



# BARRETT'S PROJECT PORTFOLIO

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LAMP STACK

# LAMP STACK Information

## Description:

The LAMP stack is a popular open-source web platform used for building and hosting dynamic websites and web applications. It consists of four main components: Linux (the operating system), Apache (the web server), MySQL (the database management system), and PHP (the programming language). Together, these components provide a powerful and flexible environment for developing and deploying web-based projects.

## System Specs:

CentOS Linux 7 (Core)

Apache/2.4.6

5.5.68-MariaDB MariaDB Server

PHP 5.4.16 (cli)



INDEX.PHP



# Index.php Information

## Description:

The purpose of my index page is to serve as the initial landing page for visitors, providing them with essential navigation options and a brief overview of the website's content. It welcomes visitors to my portfolio and encourages them to explore the projects and cybersecurity experience showcased on the site. This page pushes the unauthenticated users to login so that they can be redirected to the home page.

## Key Points:

- The page is designed with a bold Roboto font, a dark color scheme for better readability, and a background image for aesthetic appeal
- The message encourages visitors to login to explore my projects, indicating the purpose of the website
- The page includes links for logging in, signing up, viewing projects, and accessing the about page, making it easy for visitors to navigate the site

# Index.php Code

- body: Contains the content of the page, such as text, the background and other styling options
- .banner: Styles the banner section, which contains links for Login, Sign Up, Projects, and About
- .welcome: Styles the welcome section, which contains the welcome message and a prompt to login
- .btn-login, .btn-signup, etc.: Styles the Login, Sign Up, Projects, and About buttons.

```
!DOCTYPE html
<html>
<head>
  <title>Barrett's Cybersecurity Portfolio</title>
  <style>
    body {
      font-family: 'Roboto', sans-serif; /* Change to a bold
      font-size: 24px; /* Increase the font size */
      margin: 0;
      padding: 0;
      background-image: url("bakk.png");
      background-size: cover;
      color: #FFFFFF; /* Darker text color for better readability
      text-align: center;
    }

    .banner {
      background-color: #000000;
      padding: 10px 0;
      text-align: center;
    }

    .banner a {
      color: #0b51d8;
      text-decoration: none;
      margin-right: 20px;
    }

    .welcome {
      margin-top: 10px;
      padding: 20px;
    }

    .btn-login,
    .btn-signup,
    .btn-about,
    .btn-contact {
      display: inline-block;
      background-color: #000000;
```

# Index.php Code

- .btn-login:hover, .btn-signup:hover, etc.: Styles the buttons to change when hovered over
- <a>: Defines a hyperlink which is used for the corresponding buttons in the banner section
- <h1> <h4>: These make up the body of the webpage which is styled by the welcome class as seen above in the code
- <script>: Here I plan to add more JavaScript to make the website more fluid and dynamic

```
.btn-login:hover,  
.btn-signup:hover,  
.btn-about:hover,  
.btn-contact:hover {  
    background-color: #0b51d8;  
    color: #FFFFFF;  
}  
</style>  
</head>  
<body>  
    <div class="banner">  
        <a href="logon.php" class="btn-login">Login</a>  
        <a href="register.php" class="btn-signup">Sign Up</a>  
        <a href="logon.php" class="btn-about">Projects</a>  
        <a href="contact.php" class="btn-contact">About</a>  
    </div>  
  
    <div class="welcome">  
        <br></br>  
        <br></br>  
        <h1>Welcome To My Cybersecurity Portfolio</h1>  
        <h4>Please login to explore my projects and experience in the field of cybersecurity</h4>  
    </div>  
    <script>  
        // JavaScript for additional functionality  
    </script>  
</body>  
</html>
```



# Index.php Webpage



Here users can choose to login if they already have an account or sign up if they have yet to make an account. Users can also choose to visit my projects or about page but must login first. Upon logging in they will be redirected to the home page where they can access any of the previous mentioned pages and more.





# DATABASE INFORMATION



# Database Information

## Description:

The database used on my website serves as a crucial component for managing user authentication and storing user-related information. It stores user credentials securely for login purposes, ensuring that only authenticated users can access certain pages. The database also contains user-specific data, such as contact information and roles, which is utilized to personalize the user experience and provide tailored content.

## Key Points:

- The database manages user roles (e.g., admin, regular user) to control access to certain parts of the website and enforce security measures
- It is designed to be scalable, capable of handling a growing number of users and data as the website expands
- The database ensures the integrity and security of user data through encryption, access control, and other security measures to protect user privacy

# Database

Field	Type	Null	Key	Default	Extra
userid	int(13)	NO	PRI	NULL	auto_increment
fname	varchar(31)	NO		NULL	
lname	varchar(31)	NO		NULL	
email	varchar(31)	NO		NULL	
username	varchar(31)	NO		NULL	
pass	varchar(255)	NO		NULL	
role	varchar(23)	YES		NULL	

userid	fname	lname	email	username	pass	role
1	test	test		test	9f86d081884c7d659a2feaa0c55ad015a3bf4f1b2b0b822cd15d6c15b0f00a08	NULL
2	test2	test2		test2	9f86d081884c7d659a2feaa0c55ad015a3bf4f1b2b0b822cd15d6c15b0f00a08	NULL
3	test7	test7		test7	6ab06dbaa0b562a165e17b5dcaa7b20dcc1599ba5f991df0a42f2ac811edf9be	NULL
4	test8	test8	test8@gmail.com	tester8	37268335dd6931045bdcdf92623ff819a64244b53d0e746d438797349d4da578	NULL
5	test10	test10	testten@gmail.com	justtestten	0db4d4f3409a3bc6c680866ee195f18938c1ba3cb8c80e6c7731a55f80884005	NULL
6	barrett	caywood	bacaywood05@gmail.com	bcaywood	f25093c14a9d29df4a6e55525e22f10206562f7bfba088b4f56b7ecb6d880c0c	NULL
7	admin	admin	bacaywood@hotmail.com	admin	d82494f05d6917ba02f7aaa29689ccb444bb73f20380876cb05d1f37537b7892	administrator



PHPTEST.PHP



# Phptest.php Information

## Description:

This page contains the `phpinfo()` function, which outputs a comprehensive overview of the PHP environment on the server where the script is executed. This includes information such as PHP version, configuration settings, modules, and more. It's primarily used for debugging and troubleshooting purposes, providing developers with detailed insights into the PHP configuration and environment.

## Key Points:

- This page is not accessible to the public, as it can expose sensitive server information.

# Phptest.php Code



This is one of the many pages  
included with the phpinfo() function

- This makes sure that only administrators can view this page
- Anyone else who tries to access this page will be redirected to the login page
- This is what makes the request for the info page

PHP Version 5.4.16



System	Linux centos 3.10.0-1160.114.2.el7.x86_64 #1 SMP Wed Mar 20 15:54:52 UTC 2024 x86_64
Build Date	Apr 1 2020 04:08:16
Server API	Apache 2.0 Handler
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc
Loaded Configuration File	/etc/php.ini
Scan this dir for additional .ini files	/etc/php.d
Additional .ini files parsed	/etc/php.d/curl.ini, /etc/php.d/fileinfo.ini, /etc/php.d/json.ini, /etc/php.d/mysql.ini, /etc/php.d/mysqli.ini, /etc/php.d/pdo.ini, /etc/php.d/pdo_mysql.ini, /etc/php.d/pdo_sqlite.ini, /etc/php.d/phar.ini, /etc/php.d/sqlite3.ini, /etc/php.d/zip.ini
PHP API	20100412
PHP Extension	20100525
Zend Extension	220100525
Zend Extension Build	API220100525,NTS
PHP Extension Build	API20100525,NTS
Debug Build	no
Thread Safety	disabled
Zend Signal Handling	disabled
Zend Memory Manager	enabled
Zend Multibyte Support	disabled
IPv6 Support	enabled

```
<?php
session_start();

if (!isset($_SESSION['loggedin']) || $_SESSION['role'] !== 'administrator') {
    header('Location: login.php');
    exit();
}

phpinfo();
?>
```



CONNECT.PHP



# Connect.php Information

## Description:

This PHP script establishes a connection to the MySQL database named 'users' on the same server. The purpose of this page is to connect to the database to perform various operations such as retrieving user information, updating user details, or inserting new user data.

## Key Points:

- This webpage uses PHP Data Objects to connect to the MySQL database, which provides a secure and efficient way to interact with databases in PHP
- The \$options array is used to set attributes for error handling, default fetch mode, and emulation of prepared statements
- The try-catch block is used to handle any exceptions that may occur during the database connection process, ensuring that errors are caught and properly managed

# Connect.php Code

- These variables store the server's name, database name, database username, and database password
- \$dsn: This variable stores the Data Source Name for the database connection
- \$options: This variable is an array that configures the PDO connection.
- try: This block of code tries to create a new PDO instance with the specified options.

```
<?php
$servername = "localhost";
$dbname = 'users';
$dbuser = 'root';
$dbpass = '';

$dsn = "mysql:host=$servername;dbname=$dbname;charset=utf8";
$options = [
    PDO::ATTR_ERRMODE => PDO::ERRMODE_EXCEPTION,
    PDO::ATTR_DEFAULT_FETCH_MODE => PDO::FETCH_ASSOC,
    PDO::ATTR_EMULATE_PREPARES => false,
];

try {
    $pdo = new PDO($dsn, $dbuser, $dbpass, $options);
} catch (\PDOException $e) {
    throw new \PDOException($e->getMessage(), (int)$e->getCode());
}
?>
```



# REGISTER.PHP

(Account Creation Web Page)



# Register.php Information

## Description:

This PHP script creates a user registration form and handles the insertion of new user data into a MySQL database. It includes client-side validation for the form fields and redirects the user to the login page upon successful registration.

## Key Points:

- Uses PHP's PDO extension to connect to a MySQL database and insert user data securely
- Implements client-side validation using JavaScript to ensure that the form is filled out correctly before submission
- Utilizes session management to prevent logged-in users from accessing the registration page
- Provides feedback to the user about the success or failure of the registration process

# Register.php Code

- `session_start();`: Starts a new session or resumes an existing session
- Then it checks if the 'user' session variable is set and redirects to the home.php page if so
- `Include_once` : Includes the 'connect.php' file, which contains the PDO database connection

```
<?php
session_start();

if( isset($_SESSION['user'])!="") {
    header("Location: home.php");
}

include_once 'connect.php';

if ( isset($_POST['sca']) ) {
    $fname = trim($_POST['fname']);
    $lname = trim($_POST['lname']);
    $email = trim($_POST['email']);
    $username = trim($_POST['username']);
    $pass = trim($_POST['pass']);
    $password = hash('sha256', $pass);

    $query = "insert into people(fname,lname,email,username,pass) values(?, ?, ?, ?, ?)";
    $stmt = $pdo->prepare($query);
    $stmt->execute([$fname,$lname,$email,$username,$password]);
    $rowsAdded = $stmt->rowCount();

    if ($rowsAdded == 1) {
        $message = "Success! Proceed to login";
        unset($fname);
        unset($lname);
        unset($email);
        unset($pass);
        header("Location: logon.php");
    }
    else
    {
        $message = "Failed! For some reason";
    }
}
?>
<!doctype html>
<html>
<head>
<meta charset="UTF-8">
<meta http-equiv="Content-type" content="text/html; charset=utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<title>Create Your Account</title>
<style type="text/css">
body {
    background-color: #0b51d8;
    margin: 0;
    padding: 0;
    font-family: 'Roboto', sans-serif;
    display: flex;
    align-items: center;
    justify-content: center;
    min-height: 100vh;
}

div {
    width: 400px;
    padding: 20px;
    background-color: #fff;
    border-radius: 1em;
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
    position: relative;
    font-family: 'Roboto', sans-serif;
}

h1 {
    text-align: center;
}

form {
    display: flex;
    flex-direction: column;
}
```

# Register.php Code

- This provides the layout and styling for the submit button
- Here it styles the password strength meter
- This is the styling for the prompt that tells the user if the password they entered match

```
input {
    padding: 8px;
    margin-bottom: 10px;
    border: 1px solid #ccc;
    border-radius: 4px;
    font-size: 14px;
}

input[type="submit"] {
    background-color: #0b51d8;
    color: #fff;
    cursor: pointer;
    padding: 22px;
    border: none;
    border-radius: 5px;
    font-size: 16px;
    font-weight: bold;
    margin-top: 15px;
    margin-bottom: -10px;
}

input[type="submit"]:hover {
    background-color: #0b51d8;
}

#password-strength {
    margin-top: 1px;
    margin-bottom: 10px;
    font-size: 14px;
    text-align: center;
    position: center;
    left: -20px;
    right: -20px;
    margin-left: auto;
    margin-right: auto;
    width: 100%;
}

#password-match {
    margin-top: 1px;
    font-size: 14px;
    text-align: center;
    position: center;
    left: -20px;
    right: -20px;
    margin-left: auto;
    margin-right: auto;
    width: 100%;
}

</style>
```

# Register.php Code

- Here the input fields for the account creation are made
- Unlike the other fields the password field requires a minimum length for security purposes
- This function checks the passwords length and displays the strength level to the user

```
<script>
function Validate() {
    var x = document.forms["accountcreate"]["fname"].value;
    if (x == "") {
        alert("Please provide your First Name");
        return false;
    }
    var y = document.forms["accountcreate"]["lname"].value;
    if (y == "") {
        alert("Please provide your Last Name");
        return false;
    }
    var w = document.forms["accountcreate"]["email"].value;
    if (w == "") {
        alert("Please choose a email");
        return false;
    }
    var z = document.forms["accountcreate"]["username"].value;
    if (z == "") {
        alert("Please provide your username");
        return false;
    }
    var p = document.forms["accountcreate"]["pass"].value;
    if (p == "") {
        alert("Please provide your password");
        return false;
    }
    plength = p.length;
    if (plength < 8) {
        alert("Your password is not long enough");
        return false;
    }
    var vp = document.forms["accountcreate"]["vpass"].value;
    if (vp != p) {
        alert("Passwords do not match");
        return false;
    }
}

function checkPasswordStrength() {
    var password = document.getElementById("password").value;
    var strengthText = document.getElementById("password-strength");

    if (password.length < 5) {
        strengthText.textContent = "Password Strength: Very Weak";
        strengthText.style.color = "red";
    } else if (password.length < 8) {
        strengthText.textContent = "Password Strength: Weak";
        strengthText.style.color = "orange";
    } else if (password.length < 12) {

```



# Register.php Code

- This function assures that passwords entered by the user match before insertion to the database
- Here all the input fields and functions covered are put into there place

```
        strengthText.textContent = "Password Strength: Good";
        strengthText.style.color = "green";
    } else {
        strengthText.textContent = "Password Strength: Strong";
        strengthText.style.color = "blue";
    }
}

function checkPasswordMatch() {
    var password = document.getElementById("password").value;
    var vpassword = document.getElementById("vpassword").value;
    var matchText = document.getElementById("password-match");

    if (password != vpassword) {
        matchText.textContent = "Passwords do not match";
        matchText.style.color = "red";
    } else {
        matchText.textContent = "Passwords match";
        matchText.style.color = "green";
    }
}

</script>
</head>
<body>
<div>
<h1>Create Your Account</h1>
<form action="register.php" method="post" name="accountcreate" onsubmit="return Validate()">
    <label for="fname">First Name:</label>
    <input type="text" name="fname" id="fname" required><br><br>

    <label for="lname">Last Name:</label>
    <input type="text" name="lname" id="lname" required><br><br>

    <label for="email">Email:</label>
    <input type="email" name="email" id="email" required><br><br>

    <label for="username">Username:</label>
    <input type="text" name="username" id="username" required><br><br>

    <label for="pass">Password:</label>
    <input type="password" name="pass" id="password" onkeyup="checkPasswordStrength()" required>
    <span id="password-strength"></span><br><br>

    <label for="vpass">Verify Password:</label>
    <input type="password" name="vpass" id="vpassword" onkeyup="checkPasswordMatch()" required>
    <span id="password-match"></span><br><br>

    <input type="submit" name="sca" value="Create Account"><br>
</form>
</div>
```

# Register.php Webpage

Here new users can create an account. It includes fields for the user's first name, last name, email, username, password, and password verification. Client-side JavaScript functions are used for form validation, including checking the password strength and verifying that the passwords match. If registration is successful, the user is redirected to the login page.

## Create Your Account

First Name:

Last Name:

Email:

Username:

Password:

Password Strength: Good

Verify Password:

Passwords match

Create Account



# LOGON.PHP

(Login Webpage)



# Logon.php Information

## Description:

Here users can log into their account so that they can view my projects and other pages . It includes fields for entering a username and password, along with a submit button to log in. The form is validated using JavaScript to ensure both fields are filled out before submission. If the login is successful, the user is redirected to the home.php page. Otherwise, an error message will be displayed.

## Key Points:

- Passwords are hashed using the SHA-256 algorithm before being stored
- Provides a link to create a new account if the user doesn't have one
- Displays an error message if the login is unsuccessful

# Logon.php Code

- This sets the blue background and other styling choices for the webpage
- This defines the styling for the body, container, form, labels, inputs, and error message elements

```
<!DOCTYPE html>
<html>
<head>
  <title>Login</title>
  <style type="text/css">
    body {
      background-color: #0b51d8;
      margin: 0;
      padding: 0;
      font-family: 'Roboto', sans-serif;
      display: flex;
      align-items: center;
      justify-content: center;
      min-height: 100vh;
    }

    .container {
      width: 300px;
      padding: 20px;
      background-color: #fff;
      border-radius: 10px;
      box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
      text-align: center;
    }

    h1 {
      font-size: 24px;
      margin-bottom: 20px;
    }

    form {
      display: flex;
      flex-direction: column;
    }

    label {
      margin-bottom: 5px;
      text-align: left;
    }

    input {
      padding: 8px;
      margin-bottom: 10px;
      border: 1px solid #ccc;
      border-radius: 4px;
      font-size: 14px;
    }
  </style>
</head>
</html>
```

# Logon.php Code

- This styles the submission button and the option to create an account instead
- This function validates that user has provided both the username and password

```
input[type="submit"] {
    background-color: #0b51d8;
    color: #fff;
    cursor: pointer;
    padding: 10px;
    border: none;
    border-radius: 5px;
    font-size: 16px;
    font-weight: bold;
}

input[type="submit"]:hover {
    background-color: #0b51d8;
}

.create-account {
    text-align: center;
    margin-top: 10px;
    font-size: 14px;
}

.create-account a {
    text-decoration: none;
    color: #0b51d8;
}

.error-message {
    color: red;
    margin-top: 10px;
}
</style>

<script>
function Validate() {
    var username = document.forms["loginForm"]["username"].value;
    var password = document.forms["loginForm"]["password"].value;

    if (username === "" || password === "") {
        alert("Please provide both username and password");
        return false;
    }
}
</script>
</head>
<body>
<div class="container">
    <h1>Login</h1>
    <?php
        session_start();
```

# Logon.php Code

- Here the login function is connected to the database to make the corresponding changes
- If the credentials are found in the database, the user is redirected to home.php

```
if( isset($_SESSION['user']) && $_SESSION['user']!=" " ){
    header("Location: home.php");
}
include_once 'connect.php';

if ( isset($_POST['sca']) ) {
    $username = trim($_POST['username']);
    $password = trim($_POST['pass']);
    $hashed_password = hash('sha256', $password);

    $query = "SELECT userid, username, pass FROM people WHERE username=?";
    $stmt = $pdo->prepare($query);
    $stmt->execute([$username]);
    $count = $stmt->rowCount();
    $row = $stmt->fetch(PDO::FETCH_ASSOC);

    if( $count == 1 && $row['pass'] == $hashed_password ) {
        $_SESSION['user'] = $row['userid'];
        header("Location: home.php");
        exit;
    }
    else {
        $message = "Invalid Login";
    }
    $_SESSION['message'] = $message;
}

?>
<form action="logon.php" method="post" name="loginForm" onsubmit="return Validate()">
    <label for="username">Username:</label>
    <input type="text" name="username" id="username">

    <label for="password">Password:</label>
    <input type="password" name="pass" id="password">

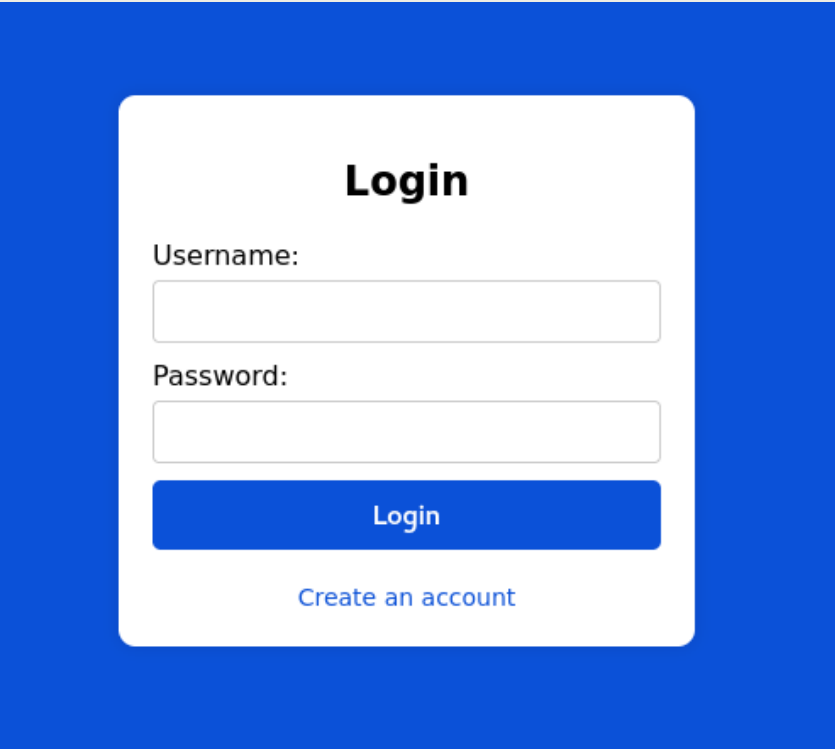
    <input type="submit" name="sca" value="Login">

    <div class="create-account">
        <a href="register.php">Create an account</a>
    </div>
</form>
<?php
    if (isset($message)) {
        echo '<div class="error-message">' . $message . '</div>';
    }
?>
</div>
</body>
</html>
```



# Logon.php

The webpage features a login form where it employs client-side form validation with JavaScript to ensure both the username and password fields are completed. User authentication is managed through PHP sessions, with user credentials retrieved from the MySQL database. Passwords are hashed using the SHA-256 algorithm before storage for enhanced security. Upon successful login, users are redirected to the home.php page. If the login attempt fails, an error message is displayed. Additionally, a link is provided for users to create a new account if they do not have one.



The image shows a login form titled "Login" centered on a blue background. The form is a white rounded rectangle containing the following elements:

- Username:** A text label followed by a white rectangular input field.
- Password:** A text label followed by a white rectangular input field.
- Login:** A solid blue rectangular button with the word "Login" in white text.
- Create an account:** A blue text link located below the login button.



HOME.PHP

# Home.php Information

## Description:

This is the actual project portfolio page that includes a header with a welcome message, title, and the logout, about me and settings buttons. The page also contains a container with buttons linking to various projects.

## Key Points:

- The page starts a session to manage user authentication. If a user is not logged in, they are redirected to the index.php page.
- The page interacts with the database to fetch user information based on the session user ID. It uses this information to determine the user's role and display the appropriate links in the subheader.
- The subheader includes links for logging out, accessing the contact page (About Me), and accessing settings (either adminset.php for administrators or setting.php for other users)

# Home.php Code

- First the session is started and connected to the database
- Then it checks if the user is not logged in and redirects to the index.php page if not.
- Here it starts to define the styles for the elements of the page

```
session_start();
require_once 'connect.php';

if (!isset($_SESSION['user'])) {
    header("Location: index.php");
    exit;
}

$query = "SELECT * FROM people WHERE userid=?";
$stmt = $pdo->prepare($query);
$stmt->execute([$_SESSION['user']]);
$userRow = $stmt->fetch(PDO::FETCH_ASSOC);

$settingsPage = ($userRow['role'] == 'administrator') ? 'adminset.php' : 'settings.php';
?>

<!DOCTYPE html>
<html>
<head>
    <title><?php echo htmlspecialchars("Barrett's Project Portfolio"); ?></title>
    <style>
        body {
            font-family: 'Roboto', sans-serif;
            margin: 0;
            padding: 0;
            background-image: url("bakk.png");
            background-size: cover;
        }

        header {
            background-color: #000000;
            padding: 0.1px 0;
            text-align: center;
            color: #0b51d8;
            font-size: 20px;
            font-weight: bold;
            position: relative;
        }

        .header-text {
            position: absolute;
            left: 40px;
            top: 50%;
            transform: translateY(-50%);
            font-size: 23px;
        }
    </style>

```

# Home.php Code

- Here the styles for the logout and about buttons are defined
- Here it defines styles for the subheader, including text alignment and margin.

```
.container {
    max-width: 800px;
    margin: 20px auto;
    padding: 0 20px;
    display: grid;
    grid-template-columns: repeat(2, 1fr);
    gap: 20px;
    text-align: center;
}

.button {
    display: block;
    height: 200px;
    background-color: #000000;
    color: white;
    text-decoration: none;
    border-radius: 10px;
    line-height: 200px;
    font-size: 20px;
    text-align: center;
}

.logout {
    position: absolute;
    top: 38px;
    right: 30px;
    background-color: #000000;
    color: #0b51d8;
    padding: 10px 20px;
    text-decoration: none;
    border-radius: 5px;
    transition: background-color 0.3s;
}

.logout:hover {
    background-color: #0b51d8;
    color: #ffffff;
}

.subheader {
    text-align: center;
    margin-top: 20px;
}

.subheader .sub-button {
    display: inline-block;
    margin: 0 20px;
    background-color: #000000;
    color: #0b51d8;
    text-decoration: none;
}
```

# Home.php Code

- Sub header and corresponding buttons styles are continued
- Here the page structure starts to be defined
- Included in the header content is the header with the welcome message, project portfolio title, and buttons that link to other pages.
- Here is where the projects will be put so that users can see my work

```
.subheader .sub-button:hover {
    background-color: #0b51d8;
    color: #ffffff;
}

.subheader .sub-button.icon {
    background-size: cover;
    width: 5px;
    height: 30px;
    display: inline-block;
    vertical-align: middle;
}

.subheader .sub-button.back {
    background-image: url("settin.png");
    float: middle;
    width: 33px;
    height: 26px;
    padding: 10px 8px;
}

.subheader .sub-button.settings {
    background-image: url("logouticon.png");
}

</style>
</head>
<body>
<header>
    <div class="header-text">Welcome, <?php echo htmlspecialchars($userRow['fname']); ?>!</div>
    <h1><?php echo htmlspecialchars("Barrett's Project Portfolio"); ?></h1>
    <div class="subheader">
        <a href="logout.php" class="sub-button icon settings"></a>
        <a href="contact.php" class="sub-button">About Me</a>
        <?php if ($userRow['role'] == 'administrator') : ?>
            <a href="adminset.php" class="sub-button icon back"></a>
        <?php else : ?>
            <a href="setting.php" class="sub-button icon back"></a>
        <?php endif; ?>
    </div>
</header>
<div class="container">
    <a class="button" href="project1.php">Project 1</a>
    <a class="button" href="project2.php">Project 2</a>
    <a class="button" href="project3.php">Project 3</a>
    <a class="button" href="project4.php">Project 4</a>
</div>
</body>
</html>
```

# Home.php Webpage

The project portfolio includes a header that features a personalized welcome message and title in the header. The navigation is intuitive, with a subheader offering links to different sections based on the user's role, such as the contact page and settings. The main content area showcases the user's projects with large, visually appealing buttons, making it easy for visitors to explore.







CONTACT.PHP



# Contact.php Information

## Description:

This webpage serves as an "About Me" section, providing visitors with a brief insight into my professional background. Below is my contact information which includes my email and links to my LinkedIn and GitHub pages.

## Key Points:

- The page features a home button with an icon, providing easy navigation back to the home page
- The page checks if the user is authenticated before allowing access, ensuring that only logged-in users can view the content
- The page has a clean and organized layout, with a container for content and styled boxes for different sections

# Contact.php Code

- Here a new session is started or resumes an existing one, if the user is not logged in yet they are redirected to the login page
- Styles are defined for the entire document, including the body, container, boxes, headings, contact information, and buttons

```
<?php
session_start();
// Check if user is authenticated
if (!isset($_SESSION['user']) || $_SESSION['user'] == "") {
    header("Location: login.php");
    exit;
}
?>
<!DOCTYPE html>
<html>
<head>
    <title>About Me</title>
    <style type="text/css">
        body {
            background-image: url('bakk.png');
            background-size: cover;
            background-position: center;
            margin: 0;
            padding: 0;
            font-family: 'Roboto', sans-serif;
            min-height: 100vh;
            position: relative;
        }

        .container {
            width: 600px;
            padding: 20px;
            text-align: center;
            margin: 0 auto;
        }

        .box {
            margin-bottom: 20px;
            padding: 20px;
            background-color: #fff;
            border-radius: 10px;
        }

        h1 {
            font-size: 24px;
            margin-bottom: 20px;
        }

        .contact-info {
            text-align: left;
            margin-bottom: 20px;
        }
    </style>
</head>
<body>
```

# Contact.php Code

- Stylings for the contact information and about section of the page are defined
- Styling for the home button is defined here
- Here the page is structured with about me at the top with my contact information under

```
display: block;
}

.edit-button {
    margin-top: 10px;
}

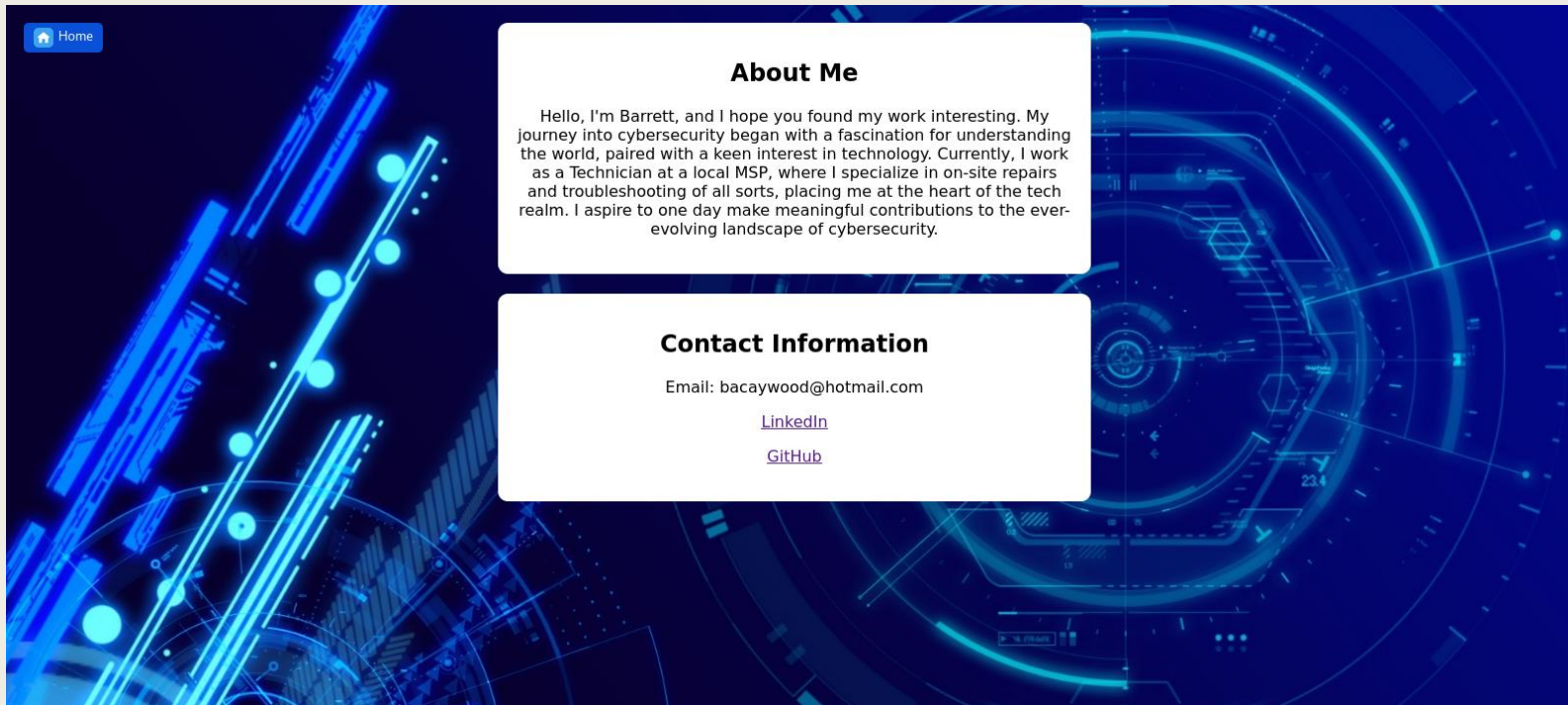
.edit-button a {
    text-decoration: none;
    color: #0b51d8;
    font-weight: bold;
}

.home-button {
    position: absolute;
    top: 20px; /* Adjust top position */
    left: 20px; /* Adjust left position */
    padding: 5px 10px;
    background-color: #0b51d8;
    color: white;
    border: none;
    border-radius: 5px;
    cursor: pointer;
}

.home-button img {
    width: 20px;
    height: 20px;
    margin-right: 5px;
    vertical-align: middle;
}
}
</style>
</head>
<body>
    <div class="container">
        <div class="box">
            <h1>About Me</h1>
            <p>Hello, I'm Barrett, and I hope you found my work interesting. My journey into cybersecurity began with a fasci
Technician at a local MSP, where I specialize in on-site repairs and troubleshooting of all sorts, placing me at the heart o
cybersecurity.</p>
        </div>
        <div class="box">
            <h1>Contact Information</h1>
            <p>Email: bacaywood@hotmail.com</p>
            <p><a href="https://www.linkedin.com/in/barrettcaywood/">LinkedIn</a></p>
            <p><a href="https://github.com/BarrettCaywood">GitHub</a></p>
        </div>
    </div>
    <button class="home-button" onclick="window.location.href='home.php'">Home</button>
</body>
```

# Contact.php Webpage

This page presents my professional background and contact information in a visually appealing and user-friendly manner, showcasing my skills and interests in cybersecurity. It also includes a “Home” button that redirects users back to the home page.





SETTING.PHP



# Setting.php Information

## Description:

The settings page is a user-friendly interface for updating account information which includes username, email, and password. Each section has a "Save" button for submitting updates, and a message area provides feedback on the outcome of the operations. A "Home" button allows users to easily return back to the home page.

## Key Points:

- A message displays feedback on the outcome of the update operations (e.g., "Username Saved")
- Each input form has a "Save" button to submit the changes
- The "Home" button at the top left corner allows the user to return back to the main page

# Setting.php Code

- The code begins with error reporting and session start to handle any potential errors and manage user
- Soon after a statement includes a file that establishes a connection to the MySQL
- The code checks if a user is logged in by verifying the existence of a session user variable.
  - If not, it redirects the user to the login page

```
?php
error_reporting(E_ALL);
ini_set('display_errors', 1);

session_start();
require_once 'connect.php';
require_once 'password.php';

$message = "";

if (!isset($_SESSION['user']) || $_SESSION['user'] == "") {
    header("Location: logon.php");
    exit;
}

$query = "SELECT * FROM people WHERE userid=?";
$stmt = $pdo->prepare($query);
$stmt->execute([$_SESSION['user']]);
$userRow = $stmt->fetch(PDO::FETCH_ASSOC);

if ($_SERVER["REQUEST_METHOD"] == "POST" && isset($_POST["save_username"])) {
    $new_username = trim($_POST["new_username"]);
    if (!empty($new_username)) {
        $update_query = "UPDATE people SET username=? WHERE userid=?";
        $update_stmt = $pdo->prepare($update_query);
        $update_stmt->execute([$new_username, $_SESSION['user']]);
        $userRow['username'] = $new_username;
        $message = "Username Saved";
    }
}

if ($_SERVER["REQUEST_METHOD"] == "POST" && isset($_POST["save_email"])) {
    $new_email = trim($_POST["new_email"]);
    if (!empty($new_email)) {
        $update_query = "UPDATE people SET email=? WHERE userid=?";
        $update_stmt = $pdo->prepare($update_query);
        $update_stmt->execute([$new_email, $_SESSION['user']]);
        $userRow['email'] = $new_email;
        $message = "Email Saved";
    }
}

if ($_SERVER["REQUEST_METHOD"] == "POST" && isset($_POST["save_password"])) {
    $new_password = trim($_POST["new_password"]);
    if (!empty($new_password)) {
        $hashed_password = password_hash($new_password, PASSWORD_DEFAULT);
        $update_query = "UPDATE people SET pass=? WHERE userid=?";
        $update_stmt = $pdo->prepare($update_query);
        if ($update_stmt->execute([$hashed_password, $_SESSION['user']])) {
            $message = "Password Saved";
        }
    }
}
```



# Setting.php Code

- The background image, font, and home and submit button styles are defined to enhance the overall look and feel of the page
- The styling for the message that updates the user on their changes is also defined here

```
width: 100%;
padding: 8px;
margin-bottom: 10px;
border-radius: 5px;
border: 1px solid #ccc;
box-sizing: border-box;
}

input[type="submit"] {
    background-color: #0b51d8;
    color: white;
    border: none;
    border-radius: 5px;
    padding: 10px 20px;
    cursor: pointer;
    display: block;
    margin: 0 auto;
}

input[type="submit"]:hover {
    background-color: #063aa3;
}

.home-button {
    position: absolute;
    top: 20px;
    left: 20px;
    padding: 5px 10px;
    background-color: #0b51d8;
    color: white;
    border: none;
    border-radius: 5px;
    cursor: pointer;
}

.home-button img {
    width: 20px;
    height: 20px;
    margin-right: 5px;
    vertical-align: middle;
}

.message {
    color: green;
    margin-top: 10px;
}
</style>
</head>
<body>
<div class="container">
```

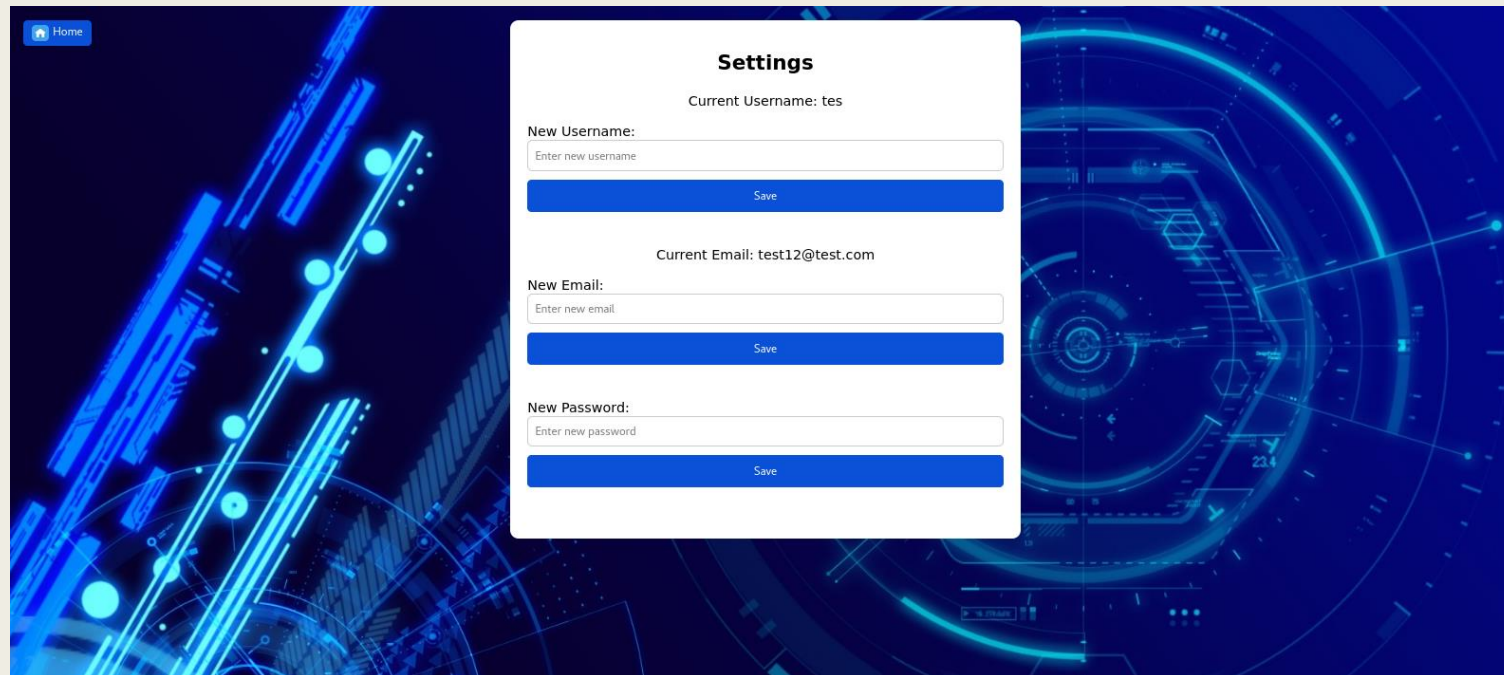
# Setting.php Code

- The HTML section includes forms for updating username, email, and password. Each form contains input fields for the new value and a submit button.
- The message area displays feedback messages (e.g., "Username Saved") to inform the user of the outcome of their actions.
- A "Home" button is added at the bottom of the page, allowing users to return to the home page easily.

```
<div class="container">
<div class="box">
  <h1>Settings</h1>
  <p>Current Username: <?php echo htmlspecialchars($userRow['username']); ?></p>
  <form method="post" action="">
    <label for="new_username">New Username:</label><br>
    <input type="text" id="new_username" name="new_username" placeholder="Enter new username">
    <input type="submit" name="save_username" value="Save"><br>
  </form>
  <p>Current Email: <?php echo htmlspecialchars($userRow['email']); ?></p>
  <form method="post" action="">
    <label for="new_email">New Email:</label><br>
    <input type="email" id="new_email" name="new_email" placeholder="Enter new email">
    <input type="submit" name="save_email" value="Save"><br>
  </form>
  <form method="post" action="">
    <label for="new_password">New Password:</label><br>
    <input type="password" id="new_password" name="new_password" placeholder="Enter new password">
    <input type="submit" name="save_password" value="Save"><br>
  </form>
  <div class="message"><?php echo $message; ?></div> <!-- Display message here -->
</div>
</div>
<button class="home-button" onclick="window.location.href='home.php'">Home</button>
</body>
</html>
```

# Setting.php Webpage

The webpage is a user-friendly interface for updating account information, including username, email, and password. It features a simple layout with input fields for each type of information and a "Save" button to submit changes. Feedback messages are displayed to inform users of their changes. Additionally, a "Home" button is provided for easy navigation back to the home page.



The screenshot displays a web interface titled "Settings" centered on a white panel. The background is a dark blue abstract graphic with glowing lines and circular patterns. In the top-left corner of the white panel, there is a "Home" button with a house icon. The settings form includes the following elements:

- Current Username:** tes
- New Username:** A text input field with the placeholder "Enter new username" and a blue "Save" button below it.
- Current Email:** test12@test.com
- New Email:** A text input field with the placeholder "Enter new email" and a blue "Save" button below it.
- New Password:** A text input field with the placeholder "Enter new password" and a blue "Save" button below it.



# ADMINSET.PHP

(Administrator Settings)



# Adminset.php Information

## Description:

This webpage is an administrator settings page designed for managing user accounts. It includes functionality to update usernames, emails, passwords, and user roles. The page features a clean and intuitive layout with input fields and dropdown menus for making changes, along with feedback messages to inform administrators of the outcomes of their actions. A "Home" button is also included to allow for easy navigation back to the home page.

## Key Points:

- The code checks if the logged-in user is an administrator. If not, it redirects them to the landing page
- In addition to updating the username, email, and password, administrators can also change a user's role between "User" and "Administrator"
- Feedback messages are displayed to inform administrators of the outcome of their actions

# Adminset.php Code

- The code starts with error reporting and session start to handle errors and manage user sessions
- Then establishes a connection to the MySQL database
- It checks if a user is logged in and redirects to the login page if not
- It redirects non-administrators to the landing page to restrict access to the administrator settings page

```
<?php
error_reporting(E_ALL);
ini_set('display_errors', 1);

session_start();
require_once 'connect.php';
require_once 'password.php';

$message = "";

if (!isset($_SESSION['user']) || $_SESSION['user'] == "") {
    header("Location: logon.php");
    exit;
}

$query = "SELECT * FROM people WHERE userid=?";
$stmt = $pdo->prepare($query);
$stmt->execute([$_SESSION['user']]);
$userRow = $stmt->fetch(PDO::FETCH_ASSOC);

// Check if user is not an administrator, redirect to landing.php if not
if ($userRow['role'] !== 'administrator') {
    header("Location: index.php");
    exit;
}

if ($_SERVER["REQUEST_METHOD"] == "POST" && isset($_POST["save_username"])) {
    $new_username = trim($_POST["new_username"]);
    if (!empty($new_username)) {
        $update_query = "UPDATE people SET username=? WHERE userid=?";
        $update_stmt = $pdo->prepare($update_query);
        $update_stmt->execute([$new_username, $_SESSION['user']]);
        $userRow['username'] = $new_username;
        $message = "Username Saved";
    }
}

if ($_SERVER["REQUEST_METHOD"] == "POST" && isset($_POST["save_email"])) {
    $new_email = trim($_POST["new_email"]);
    if (!empty($new_email)) {
        $update_query = "UPDATE people SET email=? WHERE userid=?";
        $update_stmt = $pdo->prepare($update_query);
        $update_stmt->execute([$new_email, $_SESSION['user']]);
        $userRow['email'] = $new_email;
        $message = "Email Saved";
    }
}

if ($_SERVER["REQUEST_METHOD"] == "POST" && isset($_POST["save_password"])) {
    $new_password = trim($_POST["new_password"]);
```

# Adminset.php Code

- It hashes the new password and updates it in the database, displaying a feedback message based on the outcome
- Then it updates the user's role in the database based on the selection made in the dropdown menu
- Background image, font, and button styles are used to enhance the overall design.

```
$new_password = trim($_POST["new_password"]);
if (!empty($new_password)) {
    $hashed_password = password_hash($new_password, PASSWORD_DEFAULT);
    $update_query = "UPDATE people SET pass=? WHERE userid=?";
    $update_stmt = $pdo->prepare($update_query);
    if ($update_stmt->execute([$hashed_password, $_SESSION['user']])) {
        $message = "Password Saved";
    } else {
        $message = "Error saving password: " . implode(", ", $update_stmt->errorInfo());
    }
}

if ($_SERVER["REQUEST_METHOD"] == "POST" && isset($_POST["save_role"])) {
    $new_role = $_POST["new_role"];
    $update_query = "UPDATE people SET role=? WHERE userid=?";
    $update_stmt = $pdo->prepare($update_query);
    if ($update_stmt->execute([$new_role, $_SESSION['user']])) {
        $userRow['role'] = $new_role;
        $message = "Role Saved";
    } else {
        $message = "Error saving role: " . implode(", ", $update_stmt->errorInfo());
    }
}
?>
<!DOCTYPE html>
<html>
<head>
<title>Settings</title>
<style type="text/css">
body {
    background-image: url('bakk.png');
    background-size: cover;
    background-position: center;
    margin: 0;
    padding: 0;
    font-family: 'Roboto', sans-serif;
    min-height: 100vh;
    position: relative;
}

.container {
    width: 600px;
    padding: 20px;
    text-align: center;
    margin: 0 auto;
}

.box {
    margin-bottom: 20px;
```

# Adminset.php Code

- This section defines styles for the body, container, input fields, buttons, and update message displayed to users
- Here the style for the drop-down menu to choose the users role is defined
- The save button style is defined here

```
padding: 20px;
background-color: #fff;
border-radius: 10px;
}

h1 {
  font-size: 24px;
  margin-bottom: 20px;
}

form {
  text-align: left;
  margin-bottom: 20px;
}

input[type="text"],
input[type="email"],
input[type="password"],
input[type="submit"] {
  width: 100%;
  padding: 8px;
  margin-bottom: 10px;
  border-radius: 5px;
  border: 1px solid #ccc;
  box-sizing: border-box;
}

select {
  width: 100%;
  padding: 8px;
  margin-bottom: 10px;
  border-radius: 5px;
  border: 1px solid #ccc;
  box-sizing: border-box;
  appearance: none;
  background-image: url('arrow.png');
  background-position: right center;
  background-repeat: no-repeat;
  background-color: #fff;
  cursor: pointer;
}

input[type="submit"] {
  background-color: #0b51d8;
  color: white;
  border: none;
  border-radius: 5px;
  padding: 10px 20px;
  cursor: pointer;
  display: block;
```



# Adminset.php Code

- The HTML section includes forms for updating username, email, password, and role, each with input fields or dropdown menus and a "Save" button
- Here the message area displays feedback messages (e.g., "Username Saved") to inform administrators of the outcome of their actions
- A "Home" button is added at the bottom of the page, allowing administrators to return to the home page easily

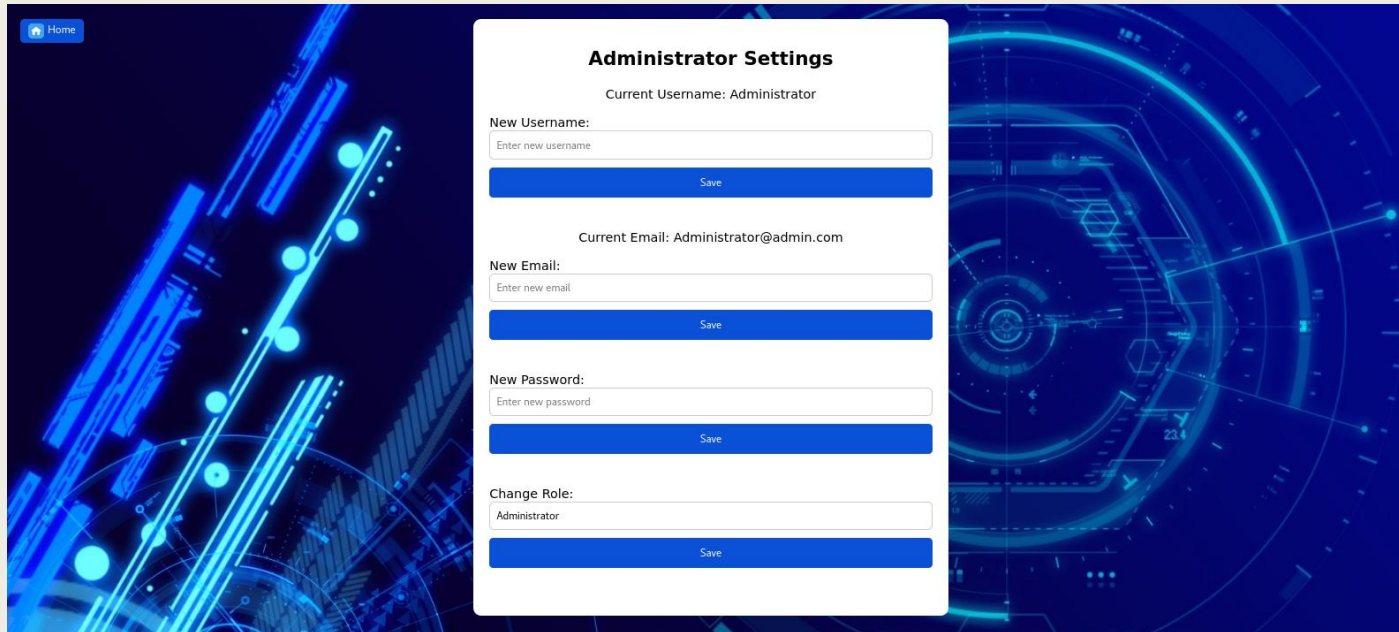
```
    cursor: pointer;
}

.home-button img {
    width: 20px;
    height: 20px;
    margin-right: 5px;
    vertical-align: middle;
}

.message {
    color: green;
    margin-top: 10px;
}
</style>
</head>
<body>
<div class="container">
<div class="box">
    <h1>Administrator Settings</h1>
    <p>Current Username: <?php echo htmlspecialchars($userRow['username']); ?></p>
    <form method="post" action="">
        <label for="new_username">New Username:</label><br>
        <input type="text" id="new_username" name="new_username" placeholder="Enter new username">
        <input type="submit" name="save_username" value="Save"><br>
    </form>
    <p>Current Email: <?php echo htmlspecialchars($userRow['email']); ?></p>
    <form method="post" action="">
        <label for="new_email">New Email:</label><br>
        <input type="email" id="new_email" name="new_email" placeholder="Enter new email">
        <input type="submit" name="save_email" value="Save"><br>
    </form>
    <form method="post" action="">
        <label for="new_password">New Password:</label><br>
        <input type="password" id="new_password" name="new_password" placeholder="Enter new password">
        <input type="submit" name="save_password" value="Save"><br>
    </form>
    <form method="post" action="">
        <label for="new_role">Change Role:</label><br>
        <select id="new_role" name="new_role">
            <option value="user" <?php if ($userRow['role'] == 'user') echo 'selected'; ?>>User</option>
            <option value="administrator" <?php if ($userRow['role'] == 'administrator') echo 'selected'; ?>>Administrator</option>
        </select>
        <input type="submit" name="save_role" value="Save"><br>
    </form>
    <div class="message"><?php echo $message; ?></div> <!-- Display message here -->
</div>
</div>
<button class="home-button" onclick="window.location.href='home.php'"> Home
</body>
```

# Adminset.php Webpage

This webpage is a secure and user-friendly platform designed for administrators to manage user accounts and roles. It features error reporting and session handling for secure authentication, ensuring only authorized users can access and make changes. The layout includes sections for updating usernames, emails, passwords, and user roles. Feedback messages are displayed to inform administrators of the outcome of their actions.



The screenshot displays the 'Administrator Settings' webpage. The background is a dark blue with abstract, glowing blue lines and circular patterns. In the top-left corner, there is a 'Home' button with a house icon. The main content area is a white form titled 'Administrator Settings'. The form contains the following sections:

- Current Username:** Administrator
- New Username:** A text input field with the placeholder 'Enter new username' and a blue 'Save' button below it.
- Current Email:** Administrator@admin.com
- New Email:** A text input field with the placeholder 'Enter new email' and a blue 'Save' button below it.
- New Password:** A text input field with the placeholder 'Enter new password' and a blue 'Save' button below it.
- Change Role:** A dropdown menu currently showing 'Administrator' and a blue 'Save' button below it.



LOGOUT.PHP

# Logout.php Information

## Description:

This PHP script serves as a logout page for a website. When accessed, it initiates a session, unsets and destroys the 'user' session variable, logging the user out. It then redirects the user to the landing page.

## Key Points:

- Utilizes sessions to manage user authentication.
- Unsets and destroys the session variable, ensuring the user is logged out.
- Redirects the user to the homepage after logout.
- Ensures a secure logout process to protect user data.

# Logout.php Code

- It begins by starting the session and then unsetting the 'user' session variable, logging the user out.
- The next function is called to remove all session variables, and after it is used to destroy the session data.
- After the logout process is complete, the script redirects the user to the landing page.

```
<?php
session_start();
unset($_SESSION['user']);
session_unset();
session_destroy();
header("Location: index.php");
exit;
?>
```



404 ERROR PAGE



# 404error.php Information

## Description:

This webpage is a custom 404 error page, which is displayed when a user tries to access a page that does not exist on the website.

## Key Points:

- It features a large "404" heading to clearly indicate the error, along with a message reassuring the user and offering a link to return to the homepage
- The page also features Comic Sans MS font and a humorous image of a sad dog

# 404error.php Code

- Here the styling for the elements on the page is defined
- The heading section includes a large "404" heading to clearly indicate the error
- The sad dog image is applied for visual appeal, as well as a message that reassures the user with a humorous touch

```
<!DOCTYPE html>
<html>
<head>
  <title>404 Error</title>
  <style>
    body {
      font-family: 'Comic Sans MS', 'Comic Sans', sans-serif;
      text-align: center;
      background-color: #f8f8f8;
      color: #333;
      margin: 0;
      padding: 0;
      display: flex;
      flex-direction: column;
      align-items: center;
      justify-content: center;
      height: 100vh;
    }

    h1 {
      font-size: 10em;
      margin-bottom: 20px;
    }

    p {
      font-size: 1.5em;
      margin-top: 0;
    }

    img {
      width: 100%;
      max-width: 400px;
    }
  </style>
</head>
<body>
  <h1>404</h1>
  
  <p>Oops! Looks like you took a wrong turn. Don't worry; even the best get lost sometimes.</p>
  <p>Let's get you back on track! <a href="/">Go home</a></p>
</body>
</html>
```



# 404error.php Webpage

This webpage is a custom 404 error page, which is displayed when a user tries to access a page that does not exist on the website.

# 404



Oops! Looks like you took a wrong turn. Don't worry; even the best get lost sometimes.

Let's get you back on track! [Go home](#)