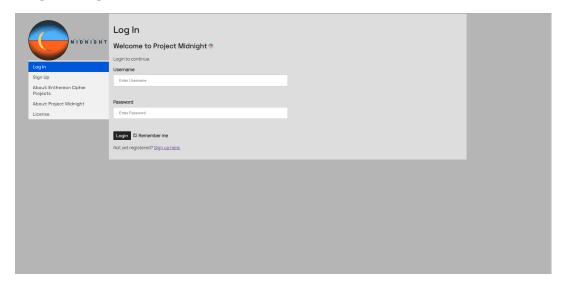
Documentation

Login Page



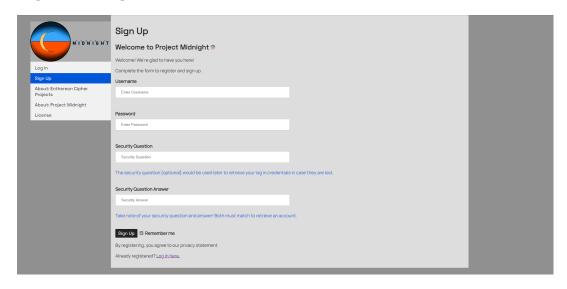
```
// src/pages/login.php
<?php
   include_once("../.sys/logic/session.php");
   if (isset($_POST["uname"])) {
        $localResults;
       try {
            $localResults = retrieveMatches();
        catch (Exception $e){
            $uname = $_POST["uname"];
            $error_uname = "Username [{$uname}] not found on
database!";
            header("Location: ", true, 301);
        }
        if (is_null($localResults)){
            global $error_uname;
            $uname = $_POST["uname"];
            $error_uname = "Username [{$uname}] not found on
database!";
            header("Location: ", true, 301);
        }
       else {
            if ($_POST["psw"] == $localResults["WORD"]){
```

```
$user = getUserName($localResults);
                $_SESSION["uname"] = $user;
                $ SESSION["lusr"] = $localResults["NAME"];
                $_SESSION["luid"] = $localResults["ID"];
                $_SESSION["luas"] =
boolval($localResults["ASTAT"]);
                unset($_POST["psw"]);
                header("Location: profile.php", true, 301);
            }
            else {
                global $error pword;
                $uname = $_POST["uname"];
                $error pword = "Username [{$uname}] and
Password does not match";
        }
    }
25
<!DOCTYPE html>
<html>
    <head>
        <meta author="Silverous Black">
        <meta charset="utf-8">
        <meta summary="Log In page of Project Midnight. Project</pre>
Midnight is a part of Enthereon Cipher Projects by S. Black,
and is a predecessor of Project Eclipse. Read license notice
for information on copyrights.">
        <title>Midnight: Log In</title>
        <link rel="icon" type="images/png" sizes="256x256"</pre>
href="../resources/images/icon-256.png">
        <link rel="icon" type="images/png" sizes="128x128"</pre>
href="../resources/images/icon-128.png">
        <link rel="icon" type="images/png" sizes="64x64"</pre>
href="../resources/images/icon-64.png">
        <link rel="icon" type="images/png" sizes="32x32"</pre>
href="../resources/images/icon-32.png">
        <link rel="icon" type="images/png" sizes="16x16"</pre>
href="../resources/images/icon-16.png">
        <link rel="stylesheet" type="text/css"</pre>
href="../scripts/css/basic.css">
    </head>
    <body>
        <l
            <img class="banner" src="../resources/images/banner</pre>
logo medium.png" alt="Project Midnight Banner Logo Medium">
```

```
<a class="active" href="">Log In</a>
            <a href="signup.php">Sign Up</a>
            <a href="../../docs/Enthereon Cipher">
</a>
Projects.pdf">About: Enthereon Cipher Projects</a>
           <a href="../../docs/Project"> <a href="../../docs/Project"> </a>
Midnight.pdf">About: Project Midnight</a>
           <a href="../../docs/LICENSE">License</a>
       <div class="general">
           <div class="content">
               <h1>Log In</h1>
               <h2>Welcome to Project Midnight <img
src="../resources/images/icon-16.png"></h2>
               Login to continue.
               <form method="post" action="">
                   <label for="uname"><b>Username</b></label>
                   <hr>>
                    <input type="text" placeholder="Enter</pre>
Username" name="uname" required>
                   <?php
                       echo ("{$error uname}
");
                   ?>
                    <br>
                   <label for="psw"><b>Password</b></label>
                   <input type="password" placeholder="Enter</pre>
Password" name="psw" required>
                   <?php
                       echo ("{$error_pword}
");
                    ?>
                    <br>
                   <button class="login" type="submit"</pre>
onclick>Login</button>
                    <label>
                   <input type="checkbox" checked="checked"</pre>
name="remember"> Remember me
                   </label>
               </form>
               Not yet registered? <a
href="signup.php">Sign up here.</a>
           </div>
       </div>
```

```
</body>
</html>
```

Sign Up Page



```
// src/pages/signup.php
<?php
   include_once("../.sys/logic/session.php");
   if (isset($_POST["uname"])){
       $pings = retrieveMatches();
        if (!(is_null($pings))){
            $uname = $_POST["uname"];
            $error_uname = "Username [{$uname}] already exists
in database! Consider changing.";
        }
        else {
            if (!(verifyPassWord($_POST["psw"]))){
                $error_pword = "Password must be at least 8
characters and at most 20 characters.";
            }
                $ret = recordEntry($_POST["uname"],
$_POST["psw"], $_POST["secq"], $_POST["seca"]);
                $localResults = retrieveMatches();
                $user = getUserName($localResults);
                $_SESSION["uname"] = $user;
                $_SESSION["lusr"] = $localResults["NAME"];
                $_SESSION["luid"] = $localResults["ID"];
```

```
$ SESSION["luas"] =
boolval($localResults["ASTAT"]);
                unset($ POST["secq"]);
                unset($_POST["seca"]);
                unset($_POST["psw"]);
                header("Location: profile.php", true, 301);
            }
        }
    }
?>
<!DOCTYPE html>
<html>
    <head>
        <meta author="Silverous Black">
        <meta charset="utf-8">
        <meta summary="Sign Up page of Project Midnight.</pre>
Project Midnight is a part of Enthereon Cipher Projects by S.
Black, and is a predecessor of Project Eclipse. Read license
notice for information on copyrights.">
        <title>Midnight: Sign Up</title>
        <link rel="icon" type="images/png" sizes="256x256"</pre>
href="../resources/images/icon-256.png">
        <link rel="icon" type="images/png" sizes="128x128"</pre>
href="../resources/images/icon-128.png">
        <link rel="icon" type="images/png" sizes="64x64"</pre>
href="../resources/images/icon-64.png">
        <link rel="icon" type="images/png" sizes="32x32"</pre>
href="../resources/images/icon-32.png">
        <link rel="icon" type="images/png" sizes="16x16"</pre>
href="../resources/images/icon-16.png">
        <link rel="stylesheet" type="text/css"</pre>
href="../scripts/css/basic.css">
    </head>
    <body>
        <l
            <img class="banner" src="../resources/images/banner</pre>
logo medium.png" alt="Project Midnight Banner Logo Medium">
            <a href="login.php">Log In</a>
            <a class="active" href="">Sign Up</a>
            <a href="../../docs/Enthereon Cipher">
</a>
Projects.pdf">About: Enthereon Cipher Projects</a>
            <a href="../../docs/Project"> <a href="../../docs/Project"> </a>
Midnight.pdf">About: Project Midnight</a>
            <a href="../../docs/LICENSE">License</a>
```

```
<div class="general">
           <div class="content">
               <h1>Sign Up</h1>
               <h2>Welcome to Project Midnight <img
src="../resources/images/icon-16.png"></h2>
               Welcome! We' re glad to have you here!
Complete the form to register and sign up.
<form method="post" action="">
                   <label for="uname">Username</label>
                   <hr>>
                   <input type="text" placeholder="Enter</pre>
Username" name="uname" required>
                   <hr>>
                   <?php
                       echo ("{$error_uname}
");
                   ?>
                   <br>>
                   <label for="psw">Password</label>
                   <input type="password" placeholder="Enter</pre>
Password" name="psw" required>
                   <hr>>
                   <?php
                       echo ("{$error_pword}
");
                   ?>
                   <br>
                   <label for="secq">Security Question</label>
                   <input type="text" placeholder="Security</pre>
Question" name="secq" style="width = 100%">
                   <hr>>
                   The security question
[optional] would be used later to retrieve your log in
credentials in case they are lost.
                   <label for="seca">Security Question
Answer</label>
                   <hr>>
                   <input type="text" placeholder="Security</pre>
Answer" name="seca" style="width = 100%">
                   <br>
```

```
Take note of your
security question and answer! Both must match to retrieve an
account.
                   <button class="login" type="submit"</pre>
onclick>Sign Up</button>
                   <label>
                      <input type="checkbox"</pre>
checked="checked" name="remember"> Remember me
                   </label>
                   By registering, you agree to our privacy
statement
               </form>
               Already registered? <a href="login.php">Log
In here.
           </div>
       </div>
   </body>
</html>
```

Others

session.php

```
// src/.sys/logic/session.php

<?php
    session_start();
    include_once("db_config.php");
    include_once("requiries.php");
    $error_uname = "";
    $error_pword = "";
}</pre>
```

db_config.php

```
// src/.sys/logic/db_config.php

<?php

    $dbserver = "localhost";
    $dbuser = "user";
    $dbpword = "";</pre>
```

```
$dbname = "MIDNIGHT";
    $dbconfig = mysqli_connect($dbserver, $dbuser, $dbpword,
$dbname);
    if ($dbconfig === false) {
        $error = mysqli_connect_error();
        die("Database Connection Error: {$error}\nAlter
    `src/.sys/logic/db_config.php` to fix errors.");
    }
}
```

requiries.php

```
// src/.sys/logic/requiries.php
<?php
    include_once("db_config.php");
    function retrieveMatches(){
        global $dbconfig;
        $name = "'" . $ POST["uname"] . "'";
        $query = "SELECT * FROM USER WHERE NAME={$name}";
        $result = mysqli_query($dbconfig, $query)
        or die("Database Error [Cannot Add Entry]: " .
mysqli_error($dbconfig));
        return mysqli_fetch_assoc($result);
    function generateUserNumber($number){
        $result = "";
        if ($number < 10) $result .= "00";</pre>
        elseif ($number < 100) $result .= "0";</pre>
        elseif ($number < 1000) $result .= "";
        return $result . "{$number}";
    }
    function getUserName($array){
        return $array["NAME"] . "#" .
generateUserNumber($array["ID"]) . boolval($array["ASTAT"]);
    function verifyPassWord(string $target){
        $size = strlen($target);
        if ($size >= 8 && $size <= 20) return true;
        else return false;
    function recordEntry($name, $word, $secq, $seca){
        global $dbconfig;
        $uven = "'" . $name . "'" . ", '" . $word . "'";
```

```
$uent = mysqli_query($dbconfig,
        "INSERT INTO USER(NAME, WORD)
       VALUE ({$uven});")
        or die("Database Error [Cannot Add Entry]: " .
mysqli_error($dbconfig));
        $retr = mysqli_query($dbconfig,
        "SELECT ID FROM USER
       WHERE NAME='{$name}';")
        or die("Database Error [Cannot Add Entry]: " .
mysqli_error($dbconfig));
       $ruid = mysqli_fetch_row($retr);
       $suid = $ruid[0];
       $sven = "'{$secq}', '{$seca}', {$suid}";
        $sent = mysqli_query($dbconfig,
        "INSERT INTO SECURITY(QUE, ANS, UID)
       VALUES ({$sven});")
       or die("Database Error [Cannot Add Entry]: " .
mysqli_error($dbconfig));
       $ret = array($uent, $sent);
        return $ret;
   }
   function logoutProtocol(){
       global $dbconfig;
       mysqli_close($dbconfig);
       unset($_POST);
       unset($_SESSION);
   }
?>
```

Database

```
MariaDB [MIDNIGHT]> SHOW TABLES;
 Tables_in_midnight
  cipher
  logs
 security
  symbol
 user
 rows in set (0.033 sec)
lariaDB [MIDNIGHT]> DESCRIBE USER;
 Field |
                          Null
                                         Default
          Type
                                  Key
                                                     Extra
          int(3)
varchar(20)
                          NO
                                  PRI
                                         NULL
                                                     auto_increment
                          NO
  WORD
                                         00000000
  ASTAT
          bit(1)
                          YES
                                         b'0'
 NAME
          varchar(20)
                                         NULL
                          YES
 rows in set (0.077 sec)
MariaDB [MIDNIGHT]> DESCRIBE CIPHER;
 Field | Type
                          Null
                                         Default | Extra
                                  Key
          int(6)
varchar(20)
int(3)
                          NO
                                  PRI
                                         NULL
  TD
  NAME
                          NO
                                         NULL
                          YES
 UID
                                  MUL
                                         NULL
 rows in set (0.020 sec)
 ariaDB [MIDNIGHT]> DESCRIBE SYMBOL;
 Field
                         Nu11
                                       Default
                                                  Extra
          Type
                                 Key
           int(13)
  ΙD
                         NO
                                 PRI
                                        NULL
           varchar(1)
  SYM
                                        NULL
                         NO
           int(6)
int(3)
 CID
                         YES
                                 MUL
                                        NULL
 UID
                         YES
                                 MUL
                                        NULL
 rows in set (0.019 sec)
 ariaDB [MIDNIGHT]> DESCRIBE SECURITY;
 Field
                          Nu11
                                         Default |
          Type
                                  Key
                                                    Extra
           int(15)
  ΙD
                          NO
                                  PRI
                                         NULL
                                                    auto_increment
          varchar(50)
                          NO
 QUE
                                         NULL
           varchar (50)
                          NO
  ANS
                                         NULL
 UID
           int(3)
                          YES
                                  MUL
                                         NULL
 rows in set (0.023 sec)
MariaDB [MIDNIGHT]> DESCRIBE LOGS;
 Field
                       Null |
                                     Default
          Type
                              Key
                                                              Extra
          int(15)
datetime
int(6)
int(3)
  ΙD
                       NO
                               PRI
                                     NULL
                                                              auto_increment
                       NO
 REC
                                     current_timestamp()
                                     NULL
 CID
                       YES
                               MUL
 UID
                       YES
                                     NULL
                               MUL
```

rows in set (0.242 sec)