

Documentation

This document shows the documentation of Project Midnight.

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0.0 Filesystem

This represents the filesystem of Project Midnight. Refer to this section for information on how locations.

```
+---+ app
|   +---+ docs
|   |   +---+ docu
|   |   |   +---> documentation.md
|   |   |   +---> documentation.pdf
|   |   |   +---> ... <misc files> ...
|   |   +---+ Third Party Licenses
|   |   |   +---> index.md
|   |   |   +---> index.pdf
|   |   |   +---> OFL.txt
|   |   +---> Enthereon Cipher Projects.md
|   |   +---> Enthereon Cipher Projects.pdf
|   |   +---> LICENSE
|   |   +---> Project Midnight.md
|   |   +---> Project Midnight.pdf
|   |   +---> System Design.vsdX
|   +---+ src
|   |   +---+ .sys
|   |   |   +---+ logic
|   |   |   |   +---> db_config.php
|   |   |   |   +---> logout.php
|   |   |   |   +---> protocols.php
|   |   |   |   +---> requiries.php
|   |   |   |   +---> session.php
|   |   |   +---+ meta
|   |   |   |   +---> midnight.sql
|   |   +---+ pages
|   |   |   +---> db.php
|   |   |   +---> live.php
|   |   |   +---> login.php
|   |   |   +---> manage.php
|   |   |   +---> profile.php
|   |   |   +---> retrieve.php
|   |   |   +---> signup.php
|   |   +---+ resources
```

```

| | | +---+ fonts
| | | | +---+ static
| | | | | +---> ... <misc font files> ...
| | | | +---> BodyFont.ttf
| | | | +---> HeaderFont.ttf
| | | +---+ images
| | | | +---> banner logo large.png
| | | | +---> banner logo medium.png
| | | | +---> icon-16.png
| | | | +---> icon-32.png
| | | | +---> icon-64.png
| | | | +---> icon-128.png
| | | | +---> icon-256.png
| | | | +---> ... <misc work files> ...
| | +---+ scripts
| | | +---+ css
| | | | +---> basic.css
| | | | +---> onboard.css
| | | +---+ js
| | +---> index.php
| | +---> launchserver.bat
| | +---> launchsys.bat
+---> .gitattributes
+---> .gitignore
+---> LICENSE
+---> README.md

```

0.1 Repository Information

- Author: [@SilverousBlack](#)
- Repository Host: [GitHub](#)
- Repository Name: [Project Midnight](#)
- Repository Status: **Private**
- Repository Version: 0.0.2
- License: [Enthereon Cipher Projects General License](#)

0.2 Version Information

- 0.0.1 - Repository Launch with Log In and Sign Up capabilities
- 0.0.2 - System Timeouts, Administrator-only Control

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0.4 Developer Notes

- Due to XAMPP not properly working (installation problems).
 - PHP workaround is made through a separate installation of PHP and Windows Batch Scripts.
 - `launchserver.bat` launches the PHP (8.0.1) Development Server with the system running at `localhost:8080`.

- `launchsys.bat` launches Microsoft Edge (developer choice browser) new window with the system running at `localhost:8080`.
- By nature of the web application, `profile.php` or the *Profile Management Page* is considered as the *home page*.
- A new MySQL user is created and used by Project Midnight by default.
- This document and other documents are written in Markdown, and exported to Portable Document Format (PDF) thereunto.

1.0 Source files and Code Works

1.1 `db_config.php`

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

1.2 `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, $query)
    or die("Database Error: " . mysqli_error($dbconfig));
    return mysqli_fetch_assoc($result);
}
function generateUserNumber($number){
    $result = "";
```

```

        if ($number < 10) $result .= "00";
        elseif ($number < 100) $result .= "0";
        elseif ($number < 1000) $result .= "";
        return $result . "{$number}";
    }
    function getUserName($name, $id, $stat){
        $astat = boolval($stat) == 1 ? 1 : 0;
        return $name . "#" . generateUserNumber($id) . $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 alert(string $msg){
        echo "<script type='text/javascript'>alert('{$msg}')"
</script>";
    }
    ?>

```

1.3 protocols.php

```
<?php
include_once("requiries.php");
function logoutProtocol(){
    global $dbconfig;
    mysqli_close($dbconfig);
    unset($_POST);
    unset($_SESSION);
}
function pageloadProtocol(){
    global $dbconfig;
    if (!(isset($_SESSION["luid"]))) {
        header("Location: login.php", true, 301);
        exit();
    }
    else {
        $luid = $_SESSION["luid"];
        $result = mysqli_query($dbconfig,
            "SELECT *
            FROM USER
            WHERE ID={$luid};")
            or die("Database Error: " .
mysqli_error($dbconfig));
        $localResults = mysqli_fetch_assoc($result);
        $user = getUserName($localResults["NAME"],
$localResults["ID"], $localResults["ASTAT"]);
        $_SESSION["uname"] = $user;
        $_SESSION["lusr"] = $localResults["NAME"];
        $_SESSION["luid"] = $localResults["ID"];
        $_SESSION["luas"] = $localResults["ASTAT"];
    }
}
function timeoutProtocol(){
    $cur = hrtime(true);
    $elapsed = (($cur - $_SESSION["lact"]) / 1e+9) / 60;
    if ($elapsed > 10){
        $_SESSION["alert"] = "System Timeout: Please log in
again";
        header("Location: login.php", true, 301);
    }
}
function adminProtocol(){
    if ($_SESSION["luas"] == 0){
```

```

        $_SESSION["alert"] = "Administrator-only Page: Log
in with an administrator account to access.";
        logoutProtocol();
        header("Location: login.php", true, 301);
    }
}
function pageendProtocol(){
    $_SESSION["lact"] = hrttime(true);
}
?>

```

1.4 session.php

```

<?php
    include_once("db_config.php");
    include_once("requiries.php");
    include_once("protocols.php");
?>

```

1.5 logout.php

```

<?php
    include_once("session.php");
    logoutProtocol();
    session_destroy();
    header("Location: ../../pages/login.php", true, 301);
?>

```

1.6 midnight.sql

```

-- Project Midnight default database setup
CREATE USER IF NOT EXISTS "user"@localhost IDENTIFIED BY "";
CREATE SCHEMA MIDNIGHT;
GRANT ALL PRIVILEGES ON MIDNIGHT.* TO "user"@localhost
IDENTIFIED BY "";
USE MIDNIGHT;
CREATE TABLE `user` (
    `ID` INT(3) NOT NULL AUTO_INCREMENT,

```

```

        `NAME` VARCHAR(20) NOT NULL,
        `WORD` VARCHAR(20) NOT NULL DEFAULT '00000000',
        `ASTAT` BIT(1) NULL DEFAULT b'0',
        PRIMARY KEY (`ID`)
    )
    COLLATE='utf8_general_ci'
    ENGINE=InnoDB
;
CREATE TABLE `cipher` (
    `ID` INT(6) NOT NULL,
    `NAME` VARCHAR(20) NOT NULL,
    `UID` INT(3) NULL DEFAULT NULL,
    PRIMARY KEY (`ID`),
    INDEX `UID` (`UID`),
    CONSTRAINT `cipher_ibfk_1` FOREIGN KEY (`UID`) REFERENCES
`user` (`ID`)
)
    COLLATE='utf8_general_ci'
    ENGINE=InnoDB
;
CREATE TABLE `symbol` (
    `ID` INT(13) NOT NULL,
    `SYM` VARCHAR(1) NOT NULL,
    `CID` INT(6) NULL DEFAULT NULL,
    `UID` INT(3) NULL DEFAULT NULL,
    PRIMARY KEY (`ID`),
    INDEX `CID` (`CID`),
    INDEX `UID` (`UID`),
    CONSTRAINT `symbol_ibfk_1` FOREIGN KEY (`CID`) REFERENCES
`cipher` (`ID`),
    CONSTRAINT `symbol_ibfk_2` FOREIGN KEY (`UID`) REFERENCES
`user` (`ID`)
)
    COLLATE='utf8_general_ci'
    ENGINE=InnoDB
;
CREATE TABLE `security` (
    `ID` INT(15) NOT NULL AUTO_INCREMENT,
    `QUE` VARCHAR(50) NOT NULL,
    `ANS` VARCHAR(50) NOT NULL,
    `UID` INT(3) NULL DEFAULT NULL,
    PRIMARY KEY (`ID`),
    INDEX `UID` (`UID`),
    CONSTRAINT `security_ibfk_1` FOREIGN KEY (`UID`) REFERENCES
`user` (`ID`)

```

```

)
COLLATE='utf8_general_ci'
ENGINE=InnoDB
;
CREATE TABLE `logs` (
  `ID` INT(15) NOT NULL AUTO_INCREMENT,
  `REC` DATETIME NOT NULL DEFAULT current_timestamp(),
  `CID` INT(6) NULL DEFAULT NULL,
  `UID` INT(3) NULL DEFAULT NULL,
  PRIMARY KEY (`ID`),
  INDEX `CID` (`CID`),
  INDEX `UID` (`UID`),
  CONSTRAINT `logs_ibfk_1` FOREIGN KEY (`CID`) REFERENCES
`cipher` (`ID`),
  CONSTRAINT `logs_ibfk_2` FOREIGN KEY (`UID`) REFERENCES
`user` (`ID`)
)
COLLATE='utf8_general_ci'
ENGINE=InnoDB
;
INSERT INTO USER(NAME, WORD, ASTAT) VALUES ("admin",
"projectmidnightadmin", 1);
INSERT INTO SECURITY(QUE, ANS, UID) VALUES ("What is the
crystal lattice of Enthereon?", "Midnight Sky", 1);

```

1.7 login.php

```

<?php
    session_start();
    include_once("../sys/logic/session.php");
    $error_uname = "";
    $error_pword = "";
    if (isset($_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)){
            $uname = $_POST["uname"];
            $error_uname = "Username [{ $uname}] not found on
database!";
            header("Location: ", true, 301);
        }
        else {
            if ($_POST["psw"] == $localResults["WORD"]){
                $user = getUserName($localResults["NAME"],
$localResults["ID"], $localResults["ASTAT"]);
                $_SESSION["uname"] = $user;
                $_SESSION["lusr"] = $localResults["NAME"];
                $_SESSION["luid"] = $localResults["ID"];
                $_SESSION["luas"] = $localResults["ASTAT"];
                $_SESSION["lact"] = hrtime(true);
                unset($_POST["psw"]);
                header("Location: profile.php", true, 301);
                exit();
            }
            else {
                global $error_pword;
                $uname = $_POST["uname"];
                $error_pword = "Username [{ $uname}] and
Password does not match";
            }
        }
    }
    unset($_POST);
    pageendProtocol();
?>
<!DOCTYPE html>
<html>
    <head>
        <meta author="Silverous Black">
        <meta charset="utf-8">
        <meta summary="Log In page of Project Midnight. 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: Log In</title>
        <link rel="icon" type="images/png" sizes="256x256"
href="../../resources/images/icon-256.png">
        <link rel="icon" type="images/png" sizes="128x128"
href="../../resources/images/icon-128.png">
        <link rel="icon" type="images/png" sizes="64x64"

```

```

href="../../../resources/images/icon-64.png">
    <link rel="icon" type="images/png" sizes="32x32"
href="../../../resources/images/icon-32.png">
    <link rel="icon" type="images/png" sizes="16x16"
href="../../../resources/images/icon-16.png">
    <link rel="stylesheet" type="text/css"
href="../../../scripts/css/basic.css">
</head>
<body>
    <ul>
        
        <li><a class="active" href="">Log In</a></li>
        <li><a href="signup.php">Sign Up</a></li>
        <li><a href="../../../docs/Enthereon Cipher
Projects.pdf">About: Enthereon Cipher Projects</a></li>
        <li><a href="../../../docs/Project
Midnight.pdf">About: Project Midnight</a></li>
        <li><a href="../../../LICENSE">License</a></li>
    </ul>
    <div class="general">
        <div class="content">
            <h1>Log In</h1>
            <h2>Welcome to Project Midnight </h2>
            <p>Login to continue.</p>
            <form method="post" action="">
                <label for="uname"><b>Username</b></label>
                <br>
                <input type="text" placeholder="Enter
Username" name="uname" required>
                <?php
                    echo ("<p class=error>{$error_uname}
</p>");
                ?>
                <br>
                <label for="psw"><b>Password</b></label>
                <br>
                <input type="password" placeholder="Enter
Password" name="psw" required>
                <?php
                    echo ("<p class=error>{$error_pword}
</p>");
                ?>
                <br>

```



```

        <button class="login" type="submit"
onclick>Login</button>
        <label>
            <input type="checkbox" checked="checked"
name="remember"> Remember me
        </label>
    </form>
    <p>Not yet registered? <a
href="signup.php">Sign up here.</a></p>
    <p>Lost your account? <a
href="retrieve.php">Retrieve here.</a></p>
</div>
</div>
</body>
</html>
<?php
    if (isset($_SESSION["alert"])){
        alert($_SESSION["alert"]);
        unset($_SESSION["alert"]);
    }
?>

```

1.8 signup.php

```

<?php
    session_start();
    include_once("../sys/logic/session.php");
    $error_uname = "";
    $error_pword = "";
    if (isset($_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.";
            }
            else {
                $ret = recordEntry($_POST["uname"],

```

```

$_POST["psw"], $_POST["secq"], $_POST["seca"]);
    $localResults = retrieveMatches();
    $user = getUsername($localResults["NAME"],
$localResults["ID"], $localResults["ASTAT"]);
    $_SESSION["uname"] = $user;
    $_SESSION["lusr"] = $localResults["NAME"];
    $_SESSION["luid"] = $localResults["ID"];
    $_SESSION["luas"] =
boolval($localResults["ASTAT"]);
    unset($_POST["secq"]);
    unset($_POST["seca"]);
    unset($_POST["psw"]);
    header("Location: profile.php", true, 301);
}
}
}
unset($_POST);
pageendProtocol();
?>
<!DOCTYPE html>
<html>
    <head>
        <meta author="Silverous Black">
        <meta charset="utf-8">
        <meta summary="Sign Up page of Project Midnight.
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"
href="../resources/images/icon-256.png">
        <link rel="icon" type="images/png" sizes="128x128"
href="../resources/images/icon-128.png">
        <link rel="icon" type="images/png" sizes="64x64"
href="../resources/images/icon-64.png">
        <link rel="icon" type="images/png" sizes="32x32"
href="../resources/images/icon-32.png">
        <link rel="icon" type="images/png" sizes="16x16"
href="../resources/images/icon-16.png">
        <link rel="stylesheet" type="text/css"
href="../scripts/css/basic.css">
    </head>
    <body>
        <ul>
            
    <li><a href="login.php">Log In</a></li>
    <li><a class="active" href="">Sign Up</a></li>
    <li><a href="../../docs/Enthereon Cipher
Projects.pdf">About: Enthereon Cipher Projects</a></li>
    <li><a href="../../docs/Project
Midnight.pdf">About: Project Midnight</a></li>
    <li><a href="../../LICENSE">License</a></li>
</ul>
<div class="general">
    <div class="content">
        <h1>Sign Up</h1>
        <h2>Welcome to Project Midnight </h2>
        <p>Welcome! We're glad to have you here!</p>
        <p>Complete the form to register and sign up.

</p>

        <form method="post" action="">
            <label for="uname">Username</label>
            <br>
            <input type="text" placeholder="Enter
Username" name="uname" required>
            <br>
            <?php
                echo ("<p class=error>{$error_uname}

</p>");
            ?>
            <br>
            <label for="psw">Password</label>
            <br>
            <input type="password" placeholder="Enter
Password" name="psw" required>
            <br>
            <?php
                echo ("<p class=error>{$error_pword}

</p>");
            ?>
            <br>
            <label for="secq">Security Question</label>
            <br>
            <input type="text" placeholder="Security
Question" name="secq" style="width: 100%">
            <br>
            <p class="notice">The security question
[optional] would be used later to retrieve your log in

```

```

credentials in case they are lost.</p>
        <br>
        <label for="seca">Security Question
Answer</label>
        <br>
        <input type="text" placeholder="Security
Answer" name="seca" style="width: 100%">
        <br>
        <p class="notice">Take note of your
security question and answer! Both must match to retrieve an
account.</p>
        <br>
        <button class="login" type="submit"
onclick>Sign Up</button>
        <label>
            <input type="checkbox"
checked="checked" name="remember"> Remember me
        </label>
        <p>By registering, you agree to our privacy
statement</p>
    </form>
    <p>Already registered? <a href="login.php">Log
In here.</a></p>
</div>
</div>
</body>
</html>

```

1.9 retrieve.php

```

<?php
    session_start();
    include_once("../sys/logic/session.php");
    if (isset($_POST["ret"])){
        $retrieve_stat = true;
        $uid = $_POST["uid"];
        $que = $_POST["secq"];
        $ans = $_POST["seca"];
        $result = mysqli_query($dbconfig,
            "SELECT *
            FROM SECURITY
            WHERE UID={$uid};")
        or die("Database Error: " . mysqli_error($dbconfig));
    }

```

```

        if (!($result)){
            $error_ret = "Cannot Execute Request: Cannot find
security records of User with ID [#{ $uid}].";
        }
        else {
            $local = mysqli_fetch_assoc($result);
            if (is_null($local)) {
                $error_ret = "Cannot Execute Request: User [#
#{ $uid}] has null security records.";
            }
            else {
                if (!($que == $local["QUE"] && $ans ==
$local["ANS"])){
                    $error_ret = "Cannot Execute Request:
Security records for User [#{ $uid}] does not match records.";
                }
                else {
                    $result = mysqli_query($dbconfig,
"SELECT NAME, WORD
FROM USER
WHERE ID=#{ $uid};")
                    or die("Database Error: " .
mysqli_error($dbconfig));
                    $local = mysqli_fetch_assoc($result);
                    $ret_uname = $local["NAME"];
                    $ret_pword = $local["WORD"];
                    $ret_success = "Request Success: Account
credentials for User [#{ $uid}] is successful.";
                }
            }
        }
    }
    unset($_POST);
    pageendProtocol();
?>
<!DOCTYPE html>
<html>
    <head>
        <meta author="Silverous Black">
        <meta charset="utf-8">
        <meta summary="Account Retrieval page of Project
Midnight. 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"
href="../../resources/images/icon-256.png">
<link rel="icon" type="images/png" sizes="128x128"
href="../../resources/images/icon-128.png">
<link rel="icon" type="images/png" sizes="64x64"
href="../../resources/images/icon-64.png">
<link rel="icon" type="images/png" sizes="32x32"
href="../../resources/images/icon-32.png">
<link rel="icon" type="images/png" sizes="16x16"
href="../../resources/images/icon-16.png">
<link rel="stylesheet" type="text/css"
href="../../scripts/css/basic.css">
</head>
<body>
<ul>

<li><a href="login.php">Log In</a></li>
<li><a href="signup.php">Sign Up</a></li>
<li><a href="../../docs/Enthereon Cipher
Projects.pdf">About: Enthereon Cipher Projects</a></li>
<li><a href="../../docs/Project
Midnight.pdf">About: Project Midnight</a></li>
<li><a href="../../LICENSE">License</a></li>
</ul>
<div class="general">
<div class="content">
<h1>Account Retrieval</h1>
<p>Retreive your account here!</p>
<p>Complete the form to attempt retrieving your
account.</p>
<form method="post" action="">
<input type="hidden" name="ret"
value="true">
<label for="uid">User ID</label>
<br>
<input type="number" name="uid"
placeholder="User ID" required>
<br>
<p>The User ID (UID) is the first three
digits of your User Tag ("#xxxx").</p>
<br>
<label for="secq">Security Question</label>
<br>
<input type="text" name="secq"
```

```

placeholder="Security Question" required>
    <br>
    <label for="seca">Security Question
Answer</label>
    <br>
    <input type="text" name="seca"
placeholder="Security Answer" required>
    <br>
    <button class="login"
type="submit">Retrieve</button>
</form>
<p>Remember your credentials? <a
href="login.php">Log in here.</a></p>
<p>Do you want to sign up? <a
href="signup.php">Sign up here.</a></p>
<?php
    if (isset($retrieve_stat)){
        echo "<hr>";
        echo "<h2>Results</h2>";
        if (isset($error_ret)){
            echo "<p class=error>{$error_ret}
</p>";
        }
        else {
            echo "<p class=success>
{$ret_success}</p>";
            echo "<p class=warning>Quickly take
note of your credentials. We are not liable for any leak of
information.</p>";
            echo "<form>";
            echo "<label>User Name</label>
<br>";
            echo "<input type=text type=value
value='{$ret_uname}' readonly><br>";
            echo "<label>Password</label><br>";
            echo "<input type=text
value='{$ret_pword}' readonly>";
            unset($retrive_stat);
        }
    }
?>
</div>
</div>
</body>
</html>

```

1.10 profile.php

```
<?php
session_start();
include_once("../.sys/logic/session.php");
pageloadProtocol();
timeoutProtocol();
if (isset($_POST["unc"])){
    $localresults = retrieveMatches();
    $uname = $_POST["uname"];
    if (is_null($localresults)){
        $luid = $_SESSION["luid"];
        $buffer = "'" . $uname . "'";
        $result = mysqli_query($dbconfig,
            "UPDATE USER
            SET NAME={$buffer}
            WHERE ID={$luid};")
        or die("Database Error: " .
mysqli_error($dbconfig));
        $user = getUser_name($uname, $luid,
$_SESSION["luas"]);
        $_SESSION["uname"] = $user;
        $_SESSION["lusr"] = $uname;
        $success_uname = "Request Success: User Name
successfully changed.";
    }
    else {
        if ($uname == $_SESSION["lusr"]){
            $error_cname = "Cannot Execute Request: New
User Name [$uname] is similar to current.";
        }
        else {
            $error_cname = "Cannot Execute Request: New
User Name [$uname] has a duplicate.";
        }
    }
    unset($_POST["unc"]);
}
if (isset($_POST["pwc"])){
    $luid = $_SESSION["luid"];
    $buffer = mysqli_query($dbconfig,
        "SELECT *
```



```

FROM USER
WHERE ID={$luid});")
or die("Database Error: " . mysqli_error($dbconfig));
$chunk = mysqli_fetch_assoc($buffer);
if ($_POST["opsw"] != $chunk["WORD"]) {
    $error_opsw = "Cannot Execute Request: Old password
does not match record.";
}
elseif ($_POST["npsw"] == $chunk["WORD"]) {
    $error_npsw = "Cannot Execute Request: New password
is similar to current.";
}
elseif ($_POST["npsw"] != $_POST["cpsw"]) {
    $error_cpsw = "Cannot Execute Request: Passwords do
not match.";
}
else {
    $load = "'" . $_POST["npsw"] . "'";
    $result = mysqli_query($dbconfig,
    "UPDATE USER
    SET WORD={$load}
    WHERE ID={$luid});")
    or die("Database Error: " .
mysqli_error($dbconfig));
    $success_pword = "Request Success: Password
successfully changed.";
}
unset($_POST["pwc"]);
}
if (isset($_POST["secc"])){
    $luid = $_SESSION["luid"];
    $secq = "'" . $_POST["secq"] . "'";
    $seca = "'" . $_POST["seca"] . "'";
    $result = mysqli_query($dbconfig,
    "UPDATE SECURITY
    SET QUE={$secq}, ANS={$seca}
    WHERE UID={$luid});")
    or die("Database Error: " . mysqli_error($dbconfig));
    $success_security = "Request Success: Security details
successfully changed.";
    unset($_POST["secc"]);
}
unset($_POST);
pageendProtocol();
?>

```

```

<!DOCTYPE html>
<html>
  <head>
    <meta author="Silverous Black">
    <meta charset="utf-8">
    <meta summary="Manage Profile page of Project Midnight.
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: Log In</title>
    <link rel="icon" type="images/png" sizes="256x256"
href="../resources/images/icon-256.png">
    <link rel="icon" type="images/png" sizes="128x128"
href="../resources/images/icon-128.png">
    <link rel="icon" type="images/png" sizes="64x64"
href="../resources/images/icon-64.png">
    <link rel="icon" type="images/png" sizes="32x32"
href="../resources/images/icon-32.png">
    <link rel="icon" type="images/png" sizes="16x16"
href="../resources/images/icon-16.png">
    <link rel="stylesheet" type="text/css"
href="../scripts/css/basic.css">
    <link rel="stylesheet" type="text/css"
href="../scripts/css/onboard.css">
  </head>
  <body>
    <ul>
      
      <li><a class="active" href="">Manage Profile</a>
</li>
      <li><a href="manage.php">Manage Ciphers</a></li>
      <li><a href="live.php">Live Cipher</a></li>
      <?php
        if ($_SESSION["luas"] == 1){
          echo "<li><a class='adminoff'
href=db.php>Database Server</a></li>";
        }
      ?>
      <li><a href="../.sys/logic/logout.php"
class="logout">Log Out</a></li>
      <li><a href="../../docs/Enthereon Cipher
Projects.pdf">About: Enthereon Cipher Projects</a></li>
      <li><a href="../../docs/Project
Midnight.pdf">About: Project Midnight</a></li>

```

```

        <li><a href="../../LICENSE">License</a></li>
    </ul>
    <div class="general">
        <div class="content">
            <h1>Profile Management</h1>
            <p>Hi <b><?php echo $_SESSION["uname"]; ?></b>!
You can change usernames, passwords and others here!</p>
            <hr>
            <h2>User Name</h2>
            <?php
                if (isset($success_uname)){
                    echo "<p class=success>{$success_uname}
</p>";
                }
            ?>
            <form method="post" action="">
                <input type="hidden" name="unc"
value="true">
                <label for="uname">New User Name</label>
                <br>
                <input type="text" name="uname"
placeholder="New User Name" value="<?php echo
$_SESSION["lusr"]; ?>" required>
                <?php
                    if (isset($error_cname)){
                        echo "<br>";
                        echo "<p class=error>{$error_cname}
</p>";
                    }
                ?>
                <br>
                <button class="login" type="submit"
onclick>Change User Name</button>
            </form>
            <hr>
            <h2>Password</h2>
            <?php
                if (isset($success_pword)){
                    echo "<p class=success>{$success_pword}
</p>";
                }
                if ($_SESSION["luas"] == 1){
                    echo "<p class=notice>It is advised to
keep administrator credentials constant.</p>";
                }
            ?>
        </div>
    </div>

```

```

        ?>
        <form method="post" action="">
            <input type="hidden" name="pwc"
value="true">
            <label for="opsw">Old Password</label>
            <br>
            <input type="password" name="opsw"
placeholder="Old Password" required>
            <?php
                if (isset($error_opsw)){
                    echo "<br>";
                    echo "<p class=error>{$error_opsw}
        </p>";
                }
            ?>
            <br>
            <label for="npsw">New Password</label>
            <br>
            <input type="password" name="npsw"
placeholder="New Password" required>
            <?php
                if (isset($error_npsw)){
                    echo "<br>";
                    echo "<p class=error>{$error_npsw}
        </p>";
                }
            ?>
            <br>
            <label for="cpsw">Confirm Password</label>
            <br>
            <input type="password" name="cpsw"
placeholder="Confirm Password" required>
            <?php
                if (isset($error_cpsw)){
                    echo "<br>";
                    echo "<p class=error>{$error_cpsw}
        </p>";
                }
            ?>
            <br>
            <button class="login" type="submit"
onclick>Change Password</button>
        </form>
        <hr>
        <h2>Security Details</h2>

```

```

        <?php
            if (isset($success_security)){
                echo "<p class=success>
{$success_security}</p>";
            }
        ?>
        <form method="post" action="">
            <input type="hidden" name="secc"
value="true">
            <label for="npsw">Security Question</label>
            <br>
            <input type="text" name="secq"
placeholder="New Security Question">
            <br>
            <label for="cpsw">Security Answer</label>
            <br>
            <input type="text" name="seca"
placeholder="New Security Answer">
            <br>
            <button class="login" type="submit"
onclick>Change Security Details</button>
        </form>
    </div>
</div>
</body>
</html>

```

1.11 manage.php

```

<?php
    session_start();
    include_once("../.sys/logic/session.php");
    pageloadProtocol();
    timeoutProtocol();
    pageendProtocol();
?>
<!DOCTYPE html>
<html>
    <head>
        <meta author="Silverous Black">
        <meta charset="utf-8">
        <meta summary="Manage Profile page of Project Midnight.
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: Log In</title>
    <link rel="icon" type="images/png" sizes="256x256"
href="../resources/images/icon-256.png">
    <link rel="icon" type="images/png" sizes="128x128"
href="../resources/images/icon-128.png">
    <link rel="icon" type="images/png" sizes="64x64"
href="../resources/images/icon-64.png">
    <link rel="icon" type="images/png" sizes="32x32"
href="../resources/images/icon-32.png">
    <link rel="icon" type="images/png" sizes="16x16"
href="../resources/images/icon-16.png">
    <link rel="stylesheet" type="text/css"
href="../scripts/css/basic.css">
    <link rel="stylesheet" type="text/css"
href="../scripts/css/onboard.css">
</head>
<body>
    <ul>
        
        <li><a href="profile.php">Manage Profile</a></li>
        <li><a class="active" href="">Manage Ciphers</a>
</li>
        <li><a href="live.php">Live Cipher</a></li>
    <?php
        if ($_SESSION["luas"] == 1){
            echo "<li><a class='adminoff'
href=db.php>Database Server</a></li>";
        }
    ?>
        <li><a href="../.sys/logic/logout.php"
class="logout">Log Out</a></li>
        <li><a href="../../docs/Enthereon Cipher
Projects.pdf">About: Enthereon Cipher Projects</a></li>
        <li><a href="../../docs/Project
Midnight.pdf">About: Project Midnight</a></li>
        <li><a href="../../LICENSE">License</a></li>
    </ul>
    <div class="general">
        <div class="content">
            <h1>Cipher Management<h2>
        </div>
    </div>
</div>

```

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

1.12 live.php

```
<?php
    session_start();
    include_once("../.sys/logic/session.php");
    pageloadProtocol();
    timeoutProtocol();
    pageendProtocol();
?>
<!DOCTYPE html>
<html>
    <head>
        <meta author="Silverous Black">
        <meta charset="utf-8">
        <meta summary="Manage Profile page of Project Midnight.
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: Log In</title>
        <link rel="icon" type="images/png" sizes="256x256"
href="../resources/images/icon-256.png">
        <link rel="icon" type="images/png" sizes="128x128"
href="../resources/images/icon-128.png">
        <link rel="icon" type="images/png" sizes="64x64"
href="../resources/images/icon-64.png">
        <link rel="icon" type="images/png" sizes="32x32"
href="../resources/images/icon-32.png">
        <link rel="icon" type="images/png" sizes="16x16"
href="../resources/images/icon-16.png">
        <link rel="stylesheet" type="text/css"
href="../scripts/css/basic.css">
        <link rel="stylesheet" type="text/css"
href="../scripts/css/onboard.css">
    </head>
    <body>
        <ul>
            
            <li><a href="profile.php">Manage Profile</a></li>
            <li><a href="manage.php">Manage Ciphers</a></li>
```

```

        <li><a class="active" href="">Live Cipher</a></li>
    <?php
        if ($_SESSION["luas"] == 1){
            echo "<li><a class='adminoff'
href=db.php>Database Server</a></li>";
        }
    ?>
    <li><a href="../../../sys/logic/logout.php"
class="logout">Log Out</a></li>
    <li><a href="../../../docs/Enthereon Cipher
Projects.pdf">About: Enthereon Cipher Projects</a></li>
    <li><a href="../../../docs/Project
Midnight.pdf">About: Project Midnight</a></li>
    <li><a href="../../../LICENSE">License</a></li>
</ul>
<div class="general">
    <div class="content">
        <h1>Live Cipher Engine<h2>
    </div>
</div>
</body>
</html>

```

1.13 db.php

```

<?php
    session_start();
    include_once("../sys/logic/session.php");
    pageloadProtocol();
    adminProtocol();
    timeoutProtocol();
    if (isset($_POST["pqe"])){
        $query = $_POST["query"];
        $to_print = "<p class=notice><b>Received query: </b>
{$query}</p>";
        $result = mysqli_query($dbconfig, $query);
        if (!$result){
            $dberror = "Database Error: " .
mysqli_error($dbconfig);
            $to_print .= "<p class=error>$dberror</p>";
        }
        else {
            $to_print .= "<p class=success>Query accepted.

```



```

</p>";
    $key = explode(" ", $query)[0];
    if (!$result){
        $to_print .= "<p class=notice>No result
buffer</p>";
    }
    else {
        if ($key == "SELECT" || $key == "SHOW" || $key
== "DESCRIBE"){
            $to_print .= "<hr><table>";
            $rows = mysqli_num_rows($result);
            if (!$rows) {
                $to_print .= "<tr><td>No Data</td>
</tr>";
            }
            else {
                $assoc = mysqli_fetch_assoc($result);
                $headers = array_keys($assoc);
                $to_print .= "<tr>";
                foreach($headers as $head){
                    $to_print .= "<th>{$head}</th>";
                }
                $to_print .= "</tr>";
                $to_print .= "<tr>";
                foreach($headers as $key){
                    $dat = $assoc["$key"];
                    $to_print .= "<td>{$dat}</td>";
                }
                $to_print .= "</tr>";
                while ($row =
mysqli_fetch_assoc($result)){
                    $to_print .= "<tr>";
                    foreach($headers as $key){
                        $dat = $row["$key"];
                        $to_print .= "<td>{$dat}</td>";
                    }
                    $to_print .= "</tr>";
                }
            }
            $to_print .= "</table>";
        }
    }
}
unset($_POST);

```

```

        pageendProtocol();
    ?>
<!DOCTYPE html>
<html>
    <head>
        <meta author="Silverous Black">
        <meta charset="utf-8">
        <meta summary="Manage Profile page of Project Midnight.
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: Log In</title>
        <link rel="icon" type="images/png" sizes="256x256"
href="../../resources/images/icon-256.png">
        <link rel="icon" type="images/png" sizes="128x128"
href="../../resources/images/icon-128.png">
        <link rel="icon" type="images/png" sizes="64x64"
href="../../resources/images/icon-64.png">
        <link rel="icon" type="images/png" sizes="32x32"
href="../../resources/images/icon-32.png">
        <link rel="icon" type="images/png" sizes="16x16"
href="../../resources/images/icon-16.png">
        <link rel="stylesheet" type="text/css"
href="../../scripts/css/basic.css">
        <link rel="stylesheet" type="text/css"
href="../../scripts/css/onboard.css">
    </head>
    <body>
        <ul>
            
            <li><a href="profile.php">Manage Profile</a></li>
            <li><a href="manage.php">Manage Ciphers</a></li>
            <li><a href="live.php">Live Cipher</a></li>
        <?php
            if ($_SESSION["luas"] == 1){
                echo "<li><a class='adminon'
href=''>Database Server</a></li>";
            }
        ?>
            <li><a href="../../sys/logic/logout.php"
class="logout">Log Out</a></li>
            <li><a href="../../docs/Enthereon Cipher
Projects.pdf">About: Enthereon Cipher Projects</a></li>
            <li><a href="../../docs/Project

```


```

Midnight.pdf">About: Project Midnight</a></li>
    <li><a href="../../LICENSE">License</a></li>
</ul>
<div class="general">
    <div class="content">
        <h1>Database Server</h1>
        <p><b>[Administrator Privelege]</b> Directly
communicate with the database here.</p>
        <form method="post" action="">
            <input type="hidden" name="pque"
value="true">
            <label for="query">Query</label>
            <br>
            <input type="text" name="query"
placeholder="Database Query" required>
            <button type="submit" class="login">&rarr;
        </button>
    </form>
    <?php
        if(isset($to_print)){
            echo "<hr><h2>Results</h2>";
            echo "{$to_print}";
        }
    ?>
    </div>
</div>
</body>
</html>

```

2.0 Runtime and Technical Captures

2.1 Log In Page



MIDNIGHT

Log In

Sign Up

About: Enthereon Cipher Projects

About: Project Midnight

License

Log In

Welcome to Project Midnight 🌙

Login to continue.

Username

Enter Username

Password

Enter Password


Login

☐ Remember me

Not yet registered? [Sign up here.](#)

Lost your account? [Retrieve here.](#)

2.2 Sign Up Page



MIDNIGHT

Log In

Sign Up

About: Enthereon Cipher Projects

About: Project Midnight

License

Sign Up

Welcome to Project Midnight 🌙

Welcome! We're glad to have you here!

Complete the form to register and sign up.

Username

Enter Username

Password

Enter Password

Security Question

Security Question

The security question (optional) would be used later to retrieve your log in credentials in case they are lost.

Security Question Answer

Security Answer

Take note of your security question and answer! Both must match to retrieve an account.


Sign Up

☐ Remember me

By registering, you agree to our [privacy statement](#).

Already registered? [Log in here.](#)

2.3 Account Retrieval Page



MIDNIGHT

[Log In](#)
[Sign Up](#)
[About: Enthereon Cipher Projects](#)
[About: Project Midnight](#)
[License](#)

Account Retrieval

Retrieve your account here!

Complete the form to attempt retrieving your account.

User ID

The User ID (UID) is the first three digits of your User Tag ("#xxxx").

Security Question


Security Question Answer

Retrieve

Remember your credentials? [Log in here.](#)

Do you want to sign up? [Sign up here.](#)

2.4 Profile Management Page [Local]



MIDNIGHT

[Manage Profile](#)
[Manage Ciphers](#)
[Live Cipher](#)
[Log Out](#)
[About: Enthereon Cipher Projects](#)
[About: Project Midnight](#)
[License](#)

Profile Management

Hi local#0040! You can change usernames, passwords and others here!

User Name
New User Name

Change User Name

Password
Old Password

New Password

Confirm Password

Change Password

Security Details
Security Question

Security Answer

Change Security Details

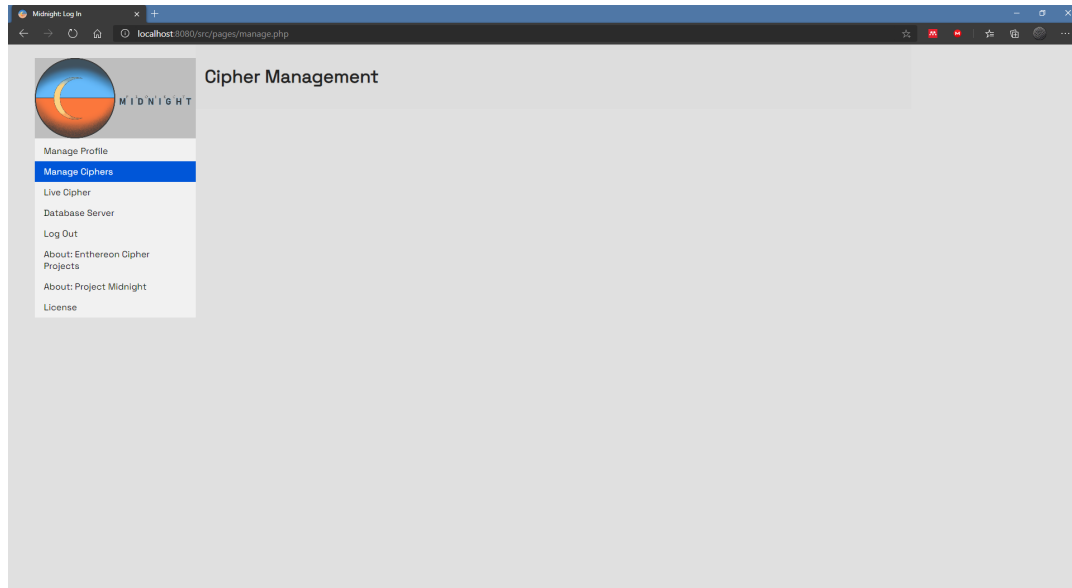
2.5 Profile Management Page [Admin]

The screenshot shows a web browser window with the address bar displaying 'localhost:3030/vrc/pages/profile.php'. The page is titled 'Profile Management' and includes a sidebar with a 'MIDNIGHT' logo and a menu with items: 'Manage Profile' (highlighted), 'Manage Ciphers', 'Live Cipher', 'Database Server', 'Log Out', 'About: Enthereon Cipher Projects', 'About: Project Midnight', and 'License'. The main content area is for user 'admin#0011' and contains three sections: 'User Name' with a 'New User Name' field containing 'admin' and a 'Change User Name' button; 'Password' with a note 'It is advised to keep administrator credentials constant.', 'Old Password', 'New Password', and 'Confirm Password' fields, and a 'Change Password' button; and 'Security Details' with 'Security Question' and 'Security Answer' fields, and a 'Change Security Details' button.

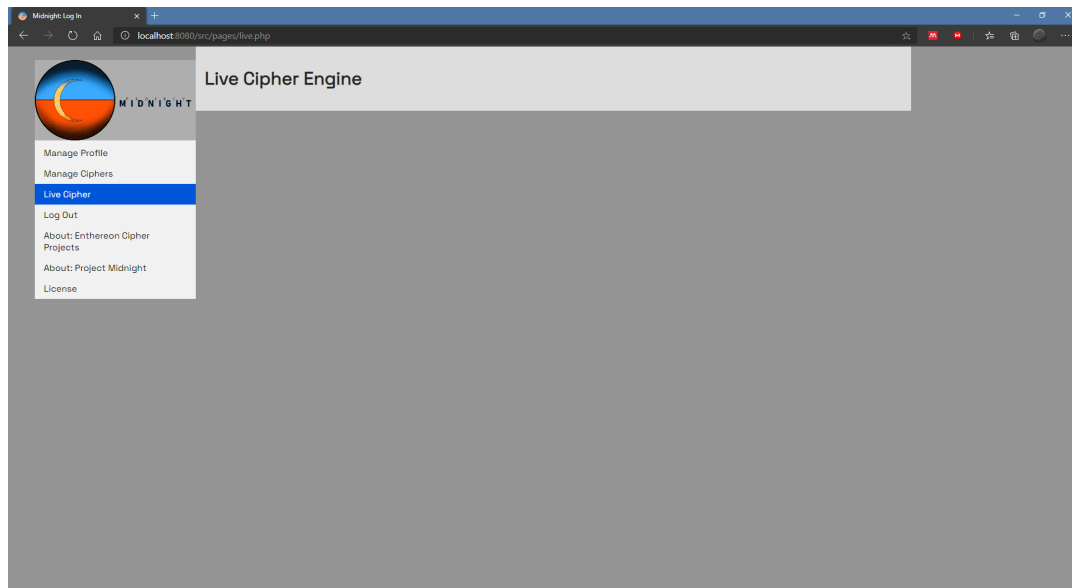
2.6 Cipher Management Page [Local]

This screenshot is identical in layout to the previous one, but the user is 'local#0040'. The 'New User Name' field in the 'User Name' section now contains the text 'local'. All other elements, including the sidebar, navigation menu, and form fields, remain the same.

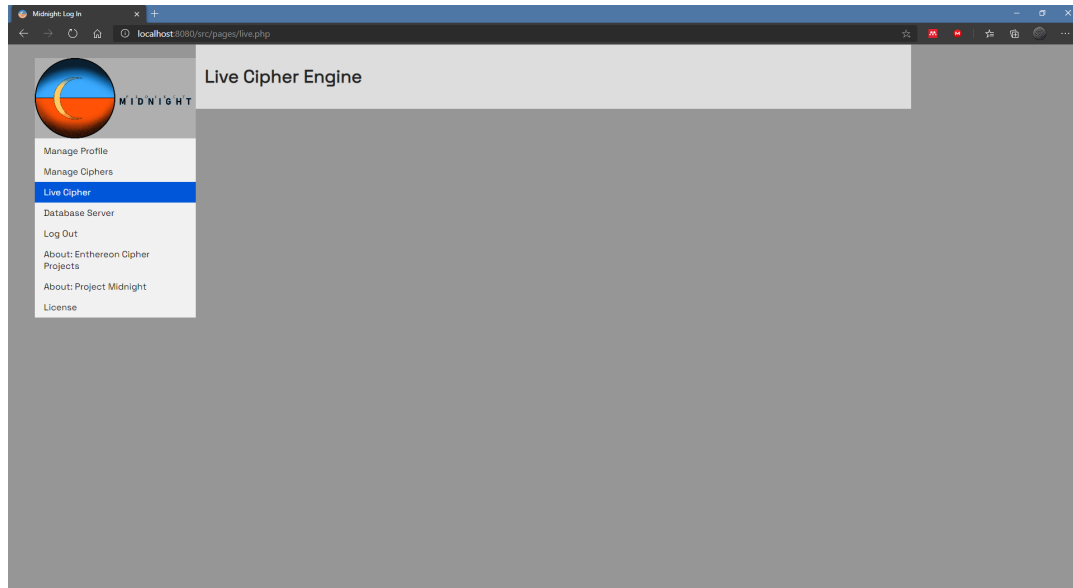
2.7 Cipher Management Page [Admin]



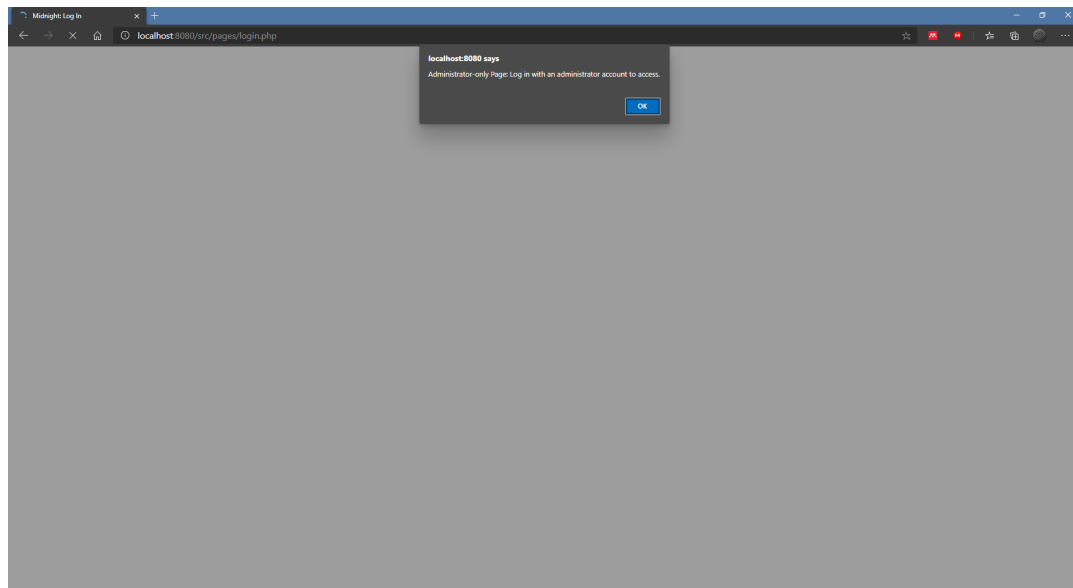
2.8 Live Cipher Engine Page [Local]



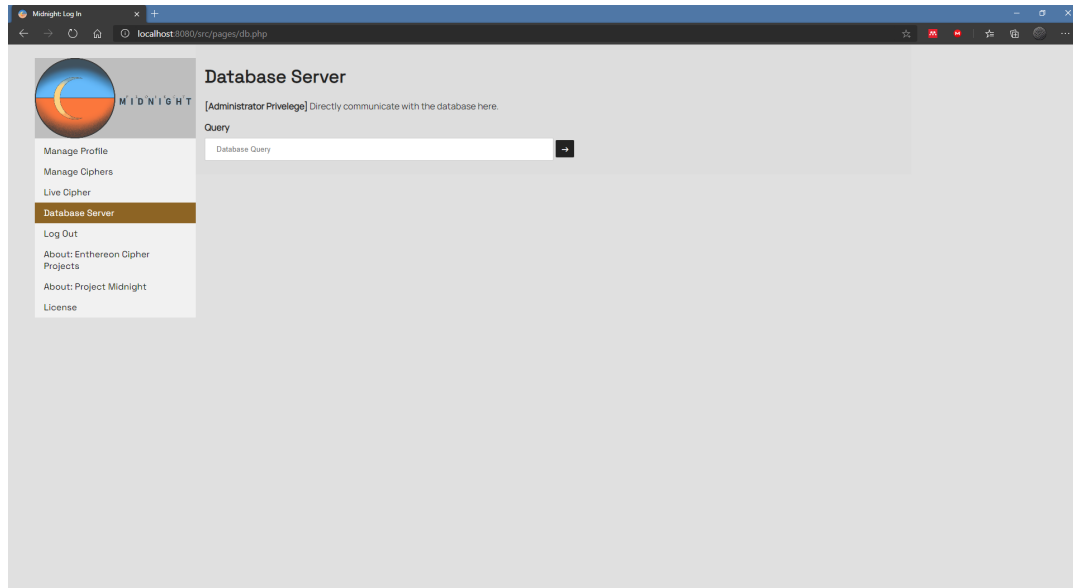
2.9 Live Cipher Engine Page [Admin]



2.10 Database Server Page [Local]



2.11 Database Server Page [Admin]



2.12 Database Structure

MariaDB [(none)]> USE MIDNIGHT;

Database changed

MariaDB [MIDNIGHT]> DESCRIBE USER;

Field	Type	Null	Key	Default	Extra
ID	int(3)	NO	PRI	NULL	auto_increment
NAME	varchar(20)	NO		NULL	
WORD	varchar(20)	NO		00000000	
ASTAT	bit(1)	NO		b'0'	

4 rows in set (0.018 sec)

MariaDB [MIDNIGHT]> DESCRIBE CIPHER;

Field	Type	Null	Key	Default	Extra
ID	int(6)	NO	PRI	NULL	
NAME	varchar(20)	NO		NULL	
UID	int(3)	YES	MUL	NULL	

3 rows in set (0.016 sec)

MariaDB [MIDNIGHT]> DESCRIBE SYMBOL;

Field	Type	Null	Key	Default	Extra
ID	int(13)	NO	PRI	NULL	
SYM	varchar(1)	NO		NULL	
CID	int(6)	YES	MUL	NULL	
UID	int(3)	YES	MUL	NULL	

4 rows in set (0.014 sec)

MariaDB [MIDNIGHT]> DESCRIBE SECURITY;

Field	Type	Null	Key	Default	Extra
ID	int(15)	NO	PRI	NULL	auto_increment
QUE	varchar(50)	NO		NULL	
ANS	varchar(50)	NO		NULL	
UID	int(3)	YES	MUL	NULL	

4 rows in set (0.015 sec)

MariaDB [MIDNIGHT]> DESCRIBE LOGS;

Field	Type	Null	Key	Default	Extra
ID	int(15)	NO	PRI	NULL	auto_increment
REC	datetime	NO		current_timestamp()	
CID	int(6)	YES	MUL	NULL	
UID	int(3)	YES	MUL	NULL	

4 rows in set (0.026 sec)