

International University of Business Agriculture and <u>Technology</u>

"Project Report"

Course Name: Database Management System Lab

Course Code: CSC 434

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Welcome to Virtual and Remote Guidance Counselling System (VRGC)



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Preface

A closed laboratory in computer programming is a vital activity for helping you gain valuable programming skills. Programming cannot be learned by "spectators". In other words, you cannot become a skilled programmer simply by watching others do it. You must spend numerous hours working on programs yourself. A closed laboratory experience gives you the opportunity to edit, write, compile, build, and execute programs of varying length and complexity under the guidance of your instructor. You will be able to reinforce concepts learned in class with a "hands on" approach. Throughout the course, your programming skills should steadily progress by applying knowledge learned in class to the laboratory setting.

Lab Session/Lab Session Topic

HTML, CSS, PHP and MySQL, Query Processing

Session Objective

- Comprehend and govern the modern database management systems and emerging database technologies and applications that address new challenges to database and information management systems.
- 2. Execute apposite use of the database system architecture and the main implementation techniques of database management systems (DBMSs).
- 3. Develop and supervise Web-based database application systems.

Theory

Topics Include

- 1. Evolution of database management systems
- 2. Entity Relationship Modeling and Design (Conceptual Modeling)
- 3. Relational Data Model and Relational Algebra (Logical Modeling)
- 4. Structured Query Language (Physical Modeling)
- 5. Transaction Processing and Concurrency Control
- 6. Database System Architectures
- 7. Legal and Ethical Aspects of Database Management

Work Day 1:

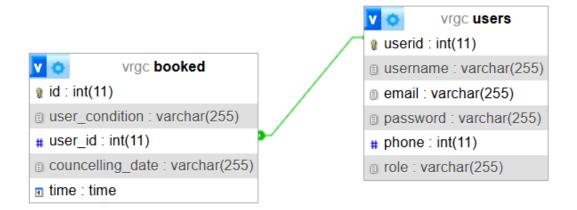
```
Creating Database
CREATE DATABASE vrgc
Creating Table for my Database
   1. users table with constraints:
SQL
CREATE TABLE users (
  userid INT NOT NULL AUTO_INCREMENT,
  username VARCHAR(255) NOT NULL,
  email VARCHAR(255) NOT NULL UNIQUE,
  password VARCHAR(255) NOT NULL,
  phone BIGINT,
  role VARCHAR(255) NOT NULL,
  PRIMARY KEY (userid)
);
   2. booked table with constraints:
SQL
CREATE TABLE booked (
  id INT NOT NULL AUTO_INCREMENT,
  user_condition VARCHAR(255),
  user_id INT,
  counselling_date DATE,
  time TIME,
  PRIMARY KEY (id),
  FOREIGN KEY (user_id) REFERENCES users(userid)
);
Inserting Data from xampp manually:
INSERT INTO users (username, email, password, phone, role)
VALUES ('admin', 'admin@gmail.com', 'admin', 1234567890, 'admin');
```

For general users booking table example:

INSERT INTO booked (user_condition, user_id, counselling_date, time)

VALUES ('Stress', 1, '2024-05-22', '6:00');

Database designer module from xampp:



WORK DAY 2:

```
Database connection code for my project:
```

```
File-name: dbconnect.php

<?php

$servername = "localhost";

$username = "root";

$password_server = "";

$dbname = "vrgc";

$conn = mysqli_connect($servername, $username, $password_server, $dbname);

if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
} else {
    mysqli_select_db($conn, $dbname);
}

?>
```

WORK DAY 3:

```
Header css: style.css file
body {
 font-family: cursive, sans-serif;
 margin: 0px;
 padding: 0px;
.headerdiv {
 display: flex;
 justify-content: space-between;
 background-color: #e6f7ff;
 padding-top: 10px;
 padding-bottom: 20px;
 padding-left: 100px;
 padding-right: 50px;
.headerdiv a {
 text-decoration: none;
 display: inline-block;
 padding-top: 20px;
 font-size: 20px;
.headerdiv p {
 color: black;
 font-size: 25px;
 font-weight: bold;
 margin: 0px;
 width: 100px;
```

}

```
Header: index.php file
 <header>
  <div class="headerdiv">
   <a href="http://localhost/vrgc/">
      VRGC 
   </a>
    <?php include('header.php') ?>
  </div>
 </header>
Header PHP: header.php file:
<?php
     if(isset($_SESSION['username']))
     {
      echo "
      <div class='headerdiv'>
       <a href='admin.php' style='font-size: 15px;'>".$_SESSION['username']."</a>
       <form action='logout.php'>
        <button type='submit' style='font-size: 15px; cursor: pointer;'>Logout</button>
       </form>
       </div>
    ?>
If it is not logged in, just visitor:
 VRGC
If logged in by a user:
VRGC
```

WORK DAY 4:

Visitors front page log in module:

```
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>VRGC - Mental Health Support</title>
 k rel="stylesheet" type="text/css" href="style.css">
</head>
<body>
 <header>
  <div class="headerdiv">
   <a href="http://localhost/vrgc/">
     VRGC 
   </a>
   <?php include('header.php') ?>
  </div>
 </header>
 <div class="bannerdiv">
  <div class="bannerleft">
   <h1>Virtual and Remote Guidance Counselling</h1>
   <h2>In Crisis? Get Counseling Support</h2>
   >
    Improve your Emotional well-being with Virtual Counseling and Therapy from licensed
psychologist, therapists,
    live peer support, mental health talks, courses, and self-care tools
```

```
</div>
  <div class="bannerright">
   <!-- Login Form -->
   <div class="form-container">
    <h2>Log In</h2>
    <form action="" method="post">
     <input type="text" name="email" placeholder="Email" required>
     <input type="password" name="password" placeholder="Password" required>
     <button type="submit" name="submit">Log In</button>
    </form>
   </div>
   <!-- Register Link -->
   <div class="register">
    On't have an account? <a href="signup.php">Sign Up Here</a>
   </div>
  </div>
 </div>
Database Connection for log in module:
<?php
include("dbconnect.php");
session_start();
if (isset($_POST['submit'])) {
 $e = mysqli_real_escape_string($conn, $_POST['email']);
 p = md5(post[password']);
 $sql = "SELECT * FROM users WHERE email = '$e' AND password = '$p'";
 $result = mysqli_query($conn, $sql);
 if (mysqli_num_rows(\$result) > 0) {
  $row = mysqli_fetch_array($result);
```

```
if ($p === $row['password']) {
    $_SESSION['userid'] = $row['userid'];
    $_SESSION['username'] = $row['username'];
    $_SESSION['role'] = $row['role'];
    header('location: gethelp.php');
    exit;
}
} else {
    echo "Please try again.";
}
```

WORK DAY 5:

```
Front page remaining design: style.css file
```

```
.bannerdiv {
   background-image: url(img/Banner.png);
   padding-top: 50px;
   padding-bottom: 0px;
   display: flex;
   color: white;
   font-size: 18px;
}
.bannerleft {
   width: 60%;
   padding-left: 100px;
   padding-top: 25px;
   padding-bottom: 25px;
}
```

```
.bannerleft a {
 text-decoration: none;
.bannerleft a:hover {
 color: white;
.bannerright {
 width: 40%;
 padding: 50px;
 text-align: center;
.service-card img {
 width: 300px;
 height: 250px;
 border-radius: 5px;
}
.support-header {
 background-color: #e2f5ff;
 padding: 20px;
 font-family: cursive;
 margin: 0px;
.support-header h2 {
 text-align: center;
}
.support-item img {
 width: 300px;
 height: 250px;
 border-radius: 5px;
```

```
}
.support-section {
 text-align: center;
 background-color: #e6f7ff;
 display: flex;
.support-item {
 width: 30%;
 margin-bottom: 20px;
 padding: 25px;
}
button {
 background-color: #008cba;
 color: white;
 padding: 10px 50px;
 border: none;
 border-radius: 20px;
 cursor: pointer;
 display: block;
 width: 160px;
 margin: 20px auto;
.services-header,
.services-container {
 background-color: #e2f5ff;
 padding: 20px;
 text-align: center;
 font-family: cursive;
 margin: 0px;
```

```
}
.service-card {
 background-color: white;
 padding: 20px;
 border: 1px solid #ddd;
 border-radius: 10px;
 text-align: center;
 width: 22%;
 margin-bottom: 20px;
}
.services-container {
 display: flex;
justify-content: space-around;
 flex-wrap: wrap;
}
input {
 width: 100%;
 padding: 10px;
 margin: 10px 0;
 border: 1px solid #ddd;
 border-radius: 5px;
}
form {
 max-width: 300px;
 margin: auto;
.support-item h3 {
 color: #003366;
```

```
}
.support-item p {
 color: #333;
 padding: 0 20px;
.register {
 text-align: center;
.register a {
 text-decoration: none;
 color: #007bff;
}
.register a:hover {
 color:white:
 text-decoration: underline;
Front page remaining code:
<div class="services-header">
  <h2>We've Got You Covered For Almost Every Concern</h2>
 </div>
 <div class="services-container">
  <div class="service-card">
   <img src="img/feeling_lost.png" alt="Feeling Lost">
   <h3>Feeling Lost</h3>
   If you're feeling disconnected from your inner self or feel like life's moments pass by
unnoticed due to
    constant preoccupation with the past or future, seek assistance in finding your way.
  </div>
```

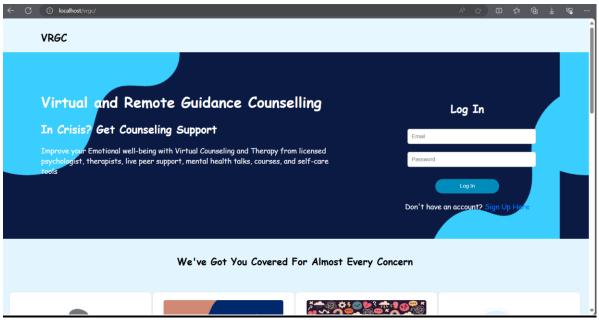
```
<div class="service-card">
   <img src="img/feeling_lonely.jpg" alt="Feeling Lonely">
   <h3>Feeling Lonely</h3>
    Experiencing difficulty understanding why relationships tend to dissipate or seem
lacking? Reach out for help
    on how to cultivate meaningful connections.
  </div>
  <div class="service-card">
   <img src="img/trauma.jpg" alt="Trauma">
   <h3>Trauma</h3>
    >Because of triggering events root deep into your psyche! Connect with seasoned
professionals and begin your
    journey of discovery towards bliss.
  </div>
  <div class="service-card">
   <img src="img/burnout.jpg" alt="Burnout">
   <h3>Burnout</h3>
   Feeling overwhelmed? Take a break and reorganize by connecting with professionals
who can help you master &
    humbly work-life tensions.
  </div>
  <div class="service-card">
   <img src="img/sadness.jpg" alt="Sadness">
   <h3>Sadness</h3>
    >Feeling out of touch with your joyful self? Share your thoughts and concerns with
experts who experience an
    uplift in your mood.
  </div>
  <div class="service-card">
   <img src="img/anxiety.jpg" alt="Anxiety">
   <h3>Anxiety</h3>
```

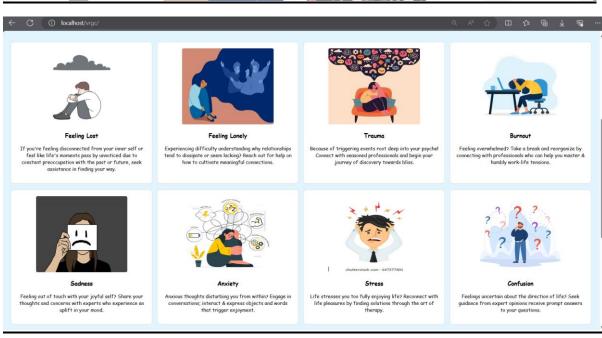
Anxious thoughts disturbing you from within? Engage in conversations; interact & express objects and words that

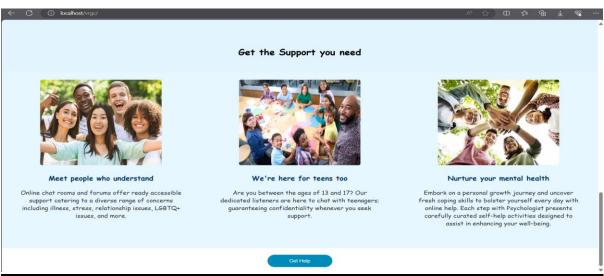
```
trigger enjoyment.
  </div>
  <div class="service-card">
   <img src="img/stress.jpg" alt="Stress">
   <h3>Stress</h3>
    Life stresses you too fully enjoying life? Reconnect with life pleasures by finding
solutions through the art
    of therapy.
  </div>
  <div class="service-card">
   <img src="img/confusion.jpg" alt="Confusion">
   <h3>Confusion</h3>
    >Feelings uncertain about the direction of life? Seek guidance from expert opinions
receive prompt answers to
    your questions.
  </div>
 </div>
 <!-- ... other concerns ... -->
 <div class="support-header">
  <h2>Get the Support you need</h2>
 </div>
 <div class="support-section">
  <div class="support-item">
   <img src="img/support1.jpg" alt="Meet people who understand">
   <h3>Meet people who understand</h3>
```

Online chat rooms and forums offer ready accessible support catering to a diverse range of concerns including

```
illness, stress, relationship issues, LGBTQ+ issues, and more.
  </div>
  <div class="support-item">
   <img src="img/support2.jpg" alt="We're here for teens too">
   <h3>We're here for teens too</h3>
   Are you between the ages of 13 and 17? Our dedicated listeners are here to chat with
teenagers; guaranteeing
    confidentiality whenever you seek support.
  </div>
  <div class="support-item">
   <img src="img/support3.jpg" alt="Nurture your mental health">
   <h3>Nurture your mental health</h3>
   Embark on a personal growth journey and uncover fresh coping skills to bolster yourself
every day with online
    help. Each step with Psychologist presents carefully curated self-help activities designed
to assist in
    enhancing your well-being.
  </div>
 </div>
 <form action="#">
  <button type="submit">Get Help</button>
 </form>
</body>
</html>
```





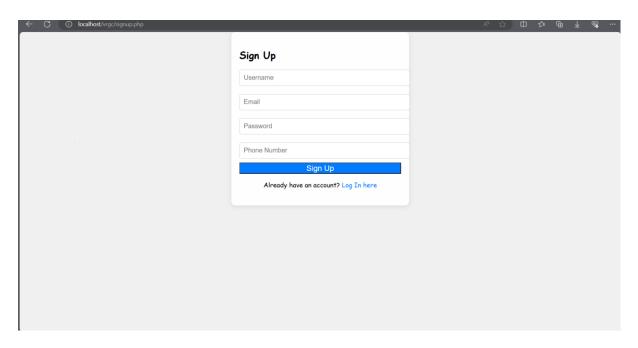


WORK DAY 6:

```
Sign up page style: signup.css file
body {
 font-family: cursive, sans-serif;
 background-color: #f0f0f0;
 margin: 0;
 padding: 0;
.container {
 max-width: 400px;
 margin: 0 auto;
 padding: 20px;
 background-color: rgba(255, 255, 255, 0.9);
 border-radius: 10px;
 box-shadow: 0 2px 10px rgba(0, 0, 0, 0.1);
.form-container {
 margin-bottom: 20px;
.form-container h2 {
 font-size: 24px;
 margin-bottom: 10px;
}
form {
 display: flex;
 flex-direction: column;
}
input {
 width: 100%;
```

```
padding: 10px;
 margin: 10px 0;
 border: 1px solid #ccc;
 border-radius: 5px;
 font-size: 16px;
button {
 background-color: #007bff;
 color: #fff;
 cursor: pointer;
 font-size: larger;
}
button:hover {
 background-color: #ea5143;
}
.register {
 text-align: center;
.register a {
 text-decoration: none;
 color: #007bff;
.register a:hover {
 text-decoration: underline;
}
Sign Up page code:
<!DOCTYPE html>
<html lang="en">
```

```
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Sign Up Page</title>
  <link rel="stylesheet" href="signup.css">
</head>
<body>
  <div class="container">
    <!-- Sign Up Form -->
    <div class="form-container">
      <h2>Sign Up</h2>
      <form action="" method="post">
         <input type="text" name="username" placeholder="Username" required>
         <input type="email" name="email" placeholder="Email" required>
         <input type="password" name="password" placeholder="Password" required>
         <input type="tel" name="phone" placeholder="Phone Number" required>
         <button type="submit" name="submit">Sign Up</button>
      </form>
      <!-- Register Link -->
    <div class="register">
      Already have an account? <a href="index.php">Log In here</a>
    </div>
    </div>
</body>
</html>
```



WORK DAY 7:

Sign Up page database connection:

```
<?php
require_once ('dbconnect.php');
if (isset($_POST['submit'])) {
    $u = mysqli_real_escape_string($conn, $_POST['username']);
    $e = mysqli_real_escape_string($conn, $_POST['email']);
    $p = md5($_POST['password']);
    $phn = $_POST['phone'];
    $sql = "select * form users where email = '$e' && password = '$p''';
    $result = mysqli_query($conn, $sql);
    $sql1 = "insert into users(username, email, password, phone) values('$u','$e','$p','$phn')";
    mysqli_query($conn, $sql1);
    header("location: index.php");
}
</pre>
```

WORK DAY 8:

```
After log in, my home page design: styleforgethelp.css file
body {
 font-family: Arial, sans-serif;
 margin: 0;
 padding: 0;
.headerdiv {
 display: flex;
 padding-top: 15px;
 place-content: space-between;
 background-color: #e6f7ff;
 padding-bottom: 10px;
 padding-left: 60px;
 text-decoration: none;
.headerdiv a {
 text-decoration: none;
 font-size: 22px;
 color: black;
 font-family: cursive;
 border-radius: 5px;
}
.header {
 background-image: url(img/Banner.png);
 text-align: center;
 color: white;
 padding: 40px;
 position: relative;
```

```
padding-bottom: 218px;
 padding-top: 108px;
.main-heading {
 font-size: 2.5em;
 margin-bottom: 10px;
.sub-heading {
 font-size: 1.2em;
 margin-bottom: 20px;
}
.button \{
 padding: 10px 20px;
 border: none;
 border-radius: 5px;
 cursor: pointer;
 font-size: 1em;
 margin-right: 10px;
 text-decoration: none;
.green {
 background-color: #4caf50;
 color: white;
}
.blue {
 background-color: #cf6beb;
 color: white;
}
```

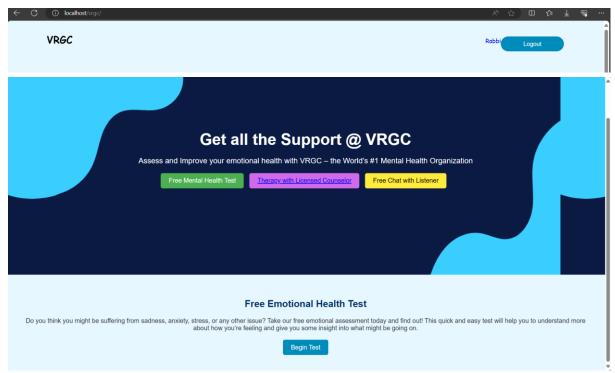
```
.yellow {
 background-color: #ffeb3b;
 color: black;
}
.content {
 background-color: #e6f7ff;
 padding: 40px;
 text-align: center;
.content h2 {
 color: #003366;
 margin-bottom: 20px;
}
.content p {
 color: #333;
 margin-bottom: 20px;
.test-button {
 background-color: #008cba;
 color: white;
 padding: 10px 20px;
 border: none;
 border-radius: 5px;
 cursor: pointer;
 font-size: 1em;
}
My homepage code: gethelp.php
<!DOCTYPE html>
<html lang="en">
```

```
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>VRGC - Mental Health Support</title>
 k rel="stylesheet" type="text/css" href="styleforgethelp.css">
</head>
<body>
 <header>
  <div class="headerdiv">
   <a href="http://localhost/vrgc/">
    VRGC
   </a>
   <?php session_start();
   include('header.php'); ?>
  </div>
 </header>
 <div class="header">
  <h1 class="main-heading">Get all the Support @ VRGC</h1>
   Assess and Improve your emotional health with VRGC - the
World's #1 Mental Health Organization
  <button class="button green">Free Mental Health Test</button>
    <button class="button blue"><a href="councel.php" target="_blank">Therapy with
Licensed Counselor</a></button>
  <button class="button yellow">Free Chat with Listener</button>
 </div>
 <div class="content">
  <h2>Free Emotional Health Test</h2>
  Do you think you might be suffering from sadness, anxiety, stress, or any other issue?
```

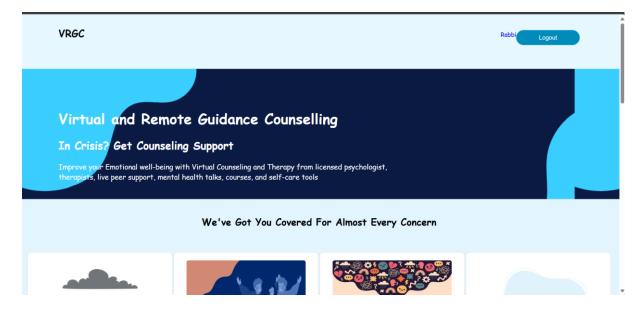
Take our free emotional assessment today and find out! This quick and easy test will help you

to understand more about how you're feeling and give you some insight into what might be going on.

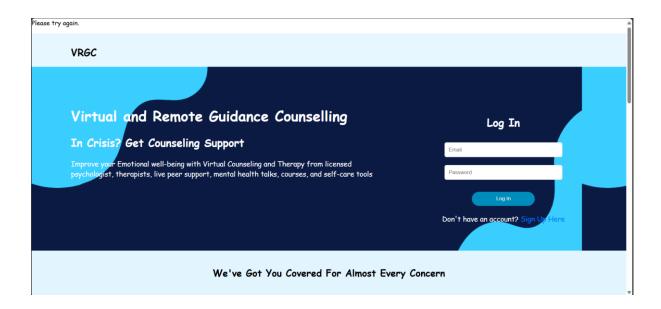
<button class="test-button">Begin Test</button>
</div>
</body>
</html>



If VRGC icon clicked on this page after log in then the home page will also be looks like -



If users write wrong password to log in then the home page module will show a small message "Please try again" in the upper portion, the screenshot of this added here:



If log in successfully worked then the gethelp.php page will shown and the further process can be done.

WORK DAY 9:

Counselling session booking part design: styleforcouncel.css

```
body {
  font-family: cursive, sans-serif;
  color: #003366;
  background-color: #f4f4f4;
  padding: 20px;
}
h1 {
  color: #003366;
  text-align: center;
```

```
}
form { background-color: #6eaff9;
  padding: 20px;
  border-radius: 10px;
   max-width: 400px;
   margin: auto; }
label { display: block;
  margin-top: 10px; }
input, select {
  width: 100%; padding: 10px;
  margin-top: 5px; border: 1px solid #ddd;
   border-radius: 5px;
  }
input[type="submit"] {
  background-color: #008CBA;
  color: white; padding: 10px 20px;
  border: none;
  border-radius: 5px;
  cursor: pointer;
   display: block;
   margin-top: 20px;
Counselling session booking page code: councel.php file
<!DOCTYPE html>
<html lang="en">
<head>
 <meta charset="UTF-8">
 <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>Book Your Counseling Session</title>
```

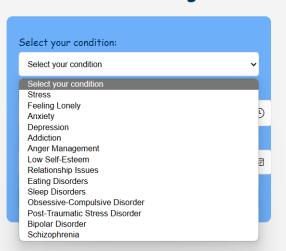
```
k rel="stylesheet" type="text/css" href="styleforcouncel.css">
</head>
<body>
 <h1>Book Your Counseling Session</h1>
 <?php
 include("dbconnect.php");
 session_start();
 if ($_SERVER["REQUEST_METHOD"] == "POST") {
  // Assuming sending the data to an email address
  $condition = $_POST['condition'];
  det = POST['date'];
  $time = $_POST['time'];
  $userId = $_SESSION['userid'];
     $sql = "insert into booked(user_condition, user_id, councelling_date, time)
values('$condition','$userId','$date','$time')";
  $result = mysqli_query($conn, $sql);
  // var_dump(($result));
  // var_dump(($conn));
  if ($result) {
   // header('location: gethelp.php');
   echo "Thank you. Your appointment for $condition counseling on $date at $time has
been booked.";
  }
  // Here I would typically send the data to an email or save it to a database
  // For now, we'll just display a confirmation message
 }
```

```
?>
 <form method="post" action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]);</pre>
?>">
  <label for="condition">Select your condition:</label>
  <select id="condition" name="condition" required>
   <option value="">Select your condition</option>
   <option value="stress">Stress</option>
   <option value="loneliness">Feeling Lonely</option>
   <option value="anxiety">Anxiety</option>
   <option value="depression">Depression</option>
   <option value="addiction">Addiction</option>
   <option value="anger">Anger Management
   <option value="self-esteem">Low Self-Esteem</option>
   <option value="relationship-issues">Relationship Issues
   <option value="eating-disorders">Eating Disorders
   <option value="sleep-disorders">Sleep Disorders
               <option
                          value="obsessive-compulsive-disorder">Obsessive-Compulsive
Disorder</option>
   <option value="post-traumatic-stress-disorder">Post-Traumatic Stress Disorder
   <option value="bipolar-disorder">Bipolar Disorder
   <option value="schizophrenia">Schizophrenia</option>
  </select>
  <label for="time">Preferred Time:</label>
  <input type="time" id="time" name="time" required>
  <label for="date">Preferred Date:</label>
  <input type="date" id="date" name="date" required>
  <input type="submit" value="Book Appointment">
 </form>
</body>
</html>
```

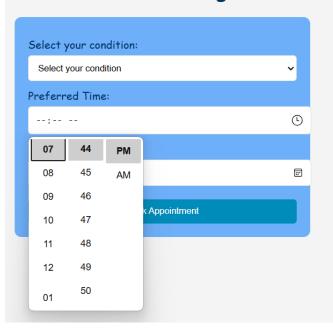
Book Your Counseling Session



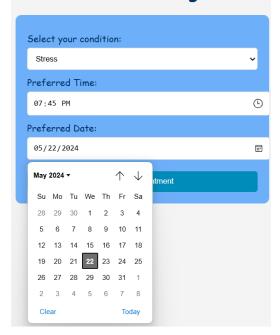
Book Your Counseling Session



Book Your Counseling Session



Book Your Counseling Session



Book Your Counseling Session

Thank you. Your appointment for stress counseling on 2024-05-22 at 19:45 has been booked.



WORK DAY 10:

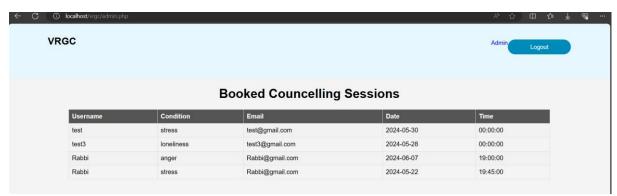
Admin page design code: admin.php file

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Admin Dashboard - Counseling Bookings</title>
  <link rel="stylesheet" href="style.css">
  <style>
    body {
       font-family: 'Arial', sans-serif;
       background-color: #f4f4f4;
       margin: 0;
       padding: 0;
     }
    .dashboard-header {
       background-color: #333;
       color: #fff;
       padding: 10px 20px;
       text-align: center;
     }
    .dashboard-table {
       width: 80%;
       margin: 20px auto;
       border-collapse: collapse;
     }
    .dashboard-table th,
     .dashboard-table td {
```

```
border: 1px solid #ddd;
      padding: 8px;
      text-align: left;
    }
    .dashboard-table th {
      background-color: #555;
      color: #fff;
    }
    .dashboard-table tr:nth-child(even) {
      background-color: #f2f2f2;
    }
  </style>
</head>
<body>
  <header>
    <div class="headerdiv">
      <a href="http://localhost/vrgc/">
         VRGC 
      </a>
      <?php include('header.php') ?>
    </div>
  </header>
  <div class="container">
    <h1 style="text-align: center;">Booked Councelling Sessions</h1>
    Username
        Condition
```

```
Email
       Date
       Time
      <!-- Repeat this block for each booked session -->
      <?php
     while ($row = mysqli_fetch_assoc($result)) {
       echo "
          " . $row['username'] . "
           " . $row['user_condition'] . "
           " . $row['email'] . "
           " . $row['councelling_date'] . "
           " . $row['time'] . "
           ";
      }
      ?>
     <!-- End of repeat -->
    </div>
</body>
</html>
Admin page database connection:
<?php
include("dbconnect.php");
session_start();
```

```
if(isset($_SESSION['role']))
{
    if($_SESSION['role'] == "Patient")
    {
        header('location: index.php');
    }
}
else {
    header('location: index.php');
}
$sql = "SELECT * FROM booked INNER JOIN users ON booked.user_id = users.userid";
$result = mysqli_query($conn, $sql);
// var_dump($result);
// var_dump($conn);
?>
```



Close connection of database:

Logout part code: logout.php file

```
<?php
session_start();
session_destroy();
header('location: index.php');
?>
```