```php
<?php
    $allFieldsEntered=true;
    session_start();
    if(array_key_exists("logout",$_GET))
    {
            unset($_SESSION);
            setcookie("id","",time() - 60*60);
            $_COOKIE["id"]="";
    }
    else if((array_key_exists("id",$_SESSION) AND $_SESSION['id']) OR
        (array_key_exists("id",$_COOKIE) AND $_COOKIE['id']))
    {
        header("Location: diary.php");
    }
    //check if at least one has been entered
    if(array_key_exists('emailSU',$_POST) OR array_key_exists('passwordSU',$_POST)
        OR array_key_exists('emailLI',$_POST)OR array_key_exists('passwordLI',$_POST))
    {
        if($_POST['signUp']=='0')
        {
            $emailLI="";
            $_POST["emailLI"]="";

            if(!$_POST['emailSU'])
            {
                echo "<p>Email was not entered</p>";
                $allFieldsEntered=false;
            }

            if(!$_POST['passwordSU'])
            {
                echo "<p>Password was not entered</p>";
                $allFieldsEntered=false;
            }

            if($allFieldsEntered)
            {
                $conn = mysqli_connect(xxx);
                if(!$conn)
                {
                    die("<p>Error encountered while connecting to the database</p>");
                }

                $query = "SELECT email FROM diaryUsers WHERE
                    email='".mysqli_real_escape_string($conn,$_POST['emailSU'])."'
                    LIMIT 1";
                if($result = mysqli_query($conn,$query))
                {
                    if(mysqli_num_rows($result) > 0)
                    {
                        echo "<p>Email already taken.</p>";
                    }
                    else
                    {
                        $query="INSERT INTO diaryUsers (email,password,diary) VALUES
                            ('".
                        mysqli_real_escape_string($conn,$_POST['emailSU'])."','".
                        mysqli_real_escape_string($conn,$_POST['passwordSU'])."','')";
                        if(mysqli_query($conn,$query))
                        {
                            $id=mysqli_insert_id($conn);

                                $_session['id']=mysqli_insert_id($conn);

                            $query = "UPDATE diaryUsers SET password =
                                '".md5(md5(mysqli_insert_id($conn)).$_POST["passwordSU
                                "])."'
                            WHERE id=".mysqli_insert_id($conn)." LIMIT 1"; //most
                                recently received ID from INSERT query
                            mysqli_query($conn, $query);
                            if($_POST['CBSU'] == '1')
                            {
```

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63
64                                  $cookieName = "id";
65                                  $cookieValue = $id;
66                                  setcookie($cookieName,$cookieValue, time() +
                                        (60*60*24*365));
67                              }
68                              header("location: diary.php");
69                          }
70                          else
71                          {
72                              echo "<p>Could not update database.</p>";
73                          }
74                      }
75                  }
76              }
77          }
78
79
80          if($_POST['signUp']=='1')
81          {
82              $emailSU="";
83              $_POST["emailSU"]="";
84
85              if(!$_POST['emailLI'])
86              {
87                  echo "</p>Email was not entered</p>";
88                  $allFieldsEntered=false;
89              }
90
91              if(!$_POST['passwordLI'])
92              {
93                  echo "<p>Password was not entered</p>";
94                  $allFieldsEntered=false;
95              }
96
97              if($allFieldsEntered)
98              {
99                  $conn = mysqli_connect(xxx);
100                 if(!$conn)
101                 {
102                     die("<p>could not connect to the database</p>");
103                 }
104                 $query="SELECT * FROM diaryUsers WHERE email='".
105                 mysqli_real_escape_string($conn,$_POST["emailLI"])."' LIMIT 1";
106                 if($result=mysqli_query($conn, $query))
107                 {
108                     $row=mysqli_fetch_array($result);
109                     if( $row[password]==md5(md5($row['id']).$_POST["passwordLI"]))
110                     {
111                         $_SESSION['id']=$row['id'];
112                         if($_POST['CBLI']=='1')
113                         {
114                             $cookieName = "id";
115                             $cookieValue = $row['id'];
116                             setcookie($cookieName,$cookieValue, time() +
                                    (60*60*24*365));
117                         }
118                         header("location: diary.php");
119                     }
120                     else
121                     {
122                         echo "<p>Wrong username/password, try again!</p>";
123                     }
124                 }
125                 else
126                 {
127                     echo "<p>Query Error!</p>".$query;
128                 }
129             }
130         }
131     }
132
```

```
?>

<!--<form method="post">
    <p>
        <input type="email" name="emailSU" id="emailSU" placeholder="Your Email"
            value="<? echo htmlentities($emailLI); ?>">
        <input type="password" name="passwordSU" id="passwordSU"
            placeholder="Password">
        <input type="checkbox" name="CBSU" id="CBSU"  value="1">
        <input type="hidden" name="signUp" id="signUp"  value="0">
        <button type="submit" name="submitSU" id="submitSU">Sign Up!</button>
    </p>
</form>

<form method="post">
    <p>
        <input type="email" name="emailLI" id="emailLI" placeholder="Your Email"
            value="<? echo htmlentities($emailSU); ?>">
        <input type="password" name="passwordLI" id="passwordLI"
            placeholder="Password">
        <input type="checkbox" name="CBLI" id="CBLI" value="1">
        <input type="hidden" name="signUp" id="signUp"  value="1">
        <button type="submit" name="submitLI" id="submitLI">Log In!</button>
    </p>
</form>-->

<!DOCTYPE html>
<html lang="en">
  <head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1,
        shrink-to-fit=no">

    <!-- Bootstrap CSS -->
    <link rel="stylesheet"
        href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-alpha.6/css/bootstrap.min.css"
        integrity="sha384-rwoIResjU2yc3z8GV/NPeZWAv56rSmLldC3R/AZzGRnGxQQKnKkoFVhFQhNUwEyJ" crossorigin="anonymous">
    <style type="text/css">
    </style>
  </head>
  <body>
    <h1>Hello, world!</h1>

    <!-- jQuery first, then Tether, then Bootstrap JS. -->
    <script src="https://code.jquery.com/jquery-3.1.1.slim.min.js"
        integrity="sha384-A7FZj7v+d/sdmMqp/nOQwliLvUsJfDHW+k9Omg/a/EheAdgtzNs3hpfag6Ed950n" crossorigin="anonymous"></script>
    <script
        src="https://cdnjs.cloudflare.com/ajax/libs/tether/1.4.0/js/tether.min.js"
        integrity="sha384-DztdAPBWPRXSA/3eYEEUWrWCy7G5KFbe8fFjk5JAIxUYHKkDx6Qin1DkWx51bBrb" crossorigin="anonymous"></script>
    <script
        src="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-alpha.6/js/bootstrap.min.js"
        integrity="sha384-vBWWzlZJ8ea9aCX4pEW3rVHjgjt7zpkNpZk+02D9phzyeVkE+jo0ieGizqPLForn" crossorigin="anonymous"></script>
    <script type="text/javascript">
    </script>
  </body>
</html>


```