Computing Technology Inquiry Project
COS10026

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Member Name	Member ID
Adil Rumy	104388564

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1. <u>Introduction</u>

1.1 Report Objective and structure outline

This report offers an in-depth review of the creation of the website, mainly it's databases. It will cover all the functional and technical details while offering a reflection on the gained individual experiences by this unit. The report provides technical details on the development process, highlights important or new features, and lists and looks at the main contributions. It also presents the website's functionalities with screenshots. A discussion will also be made on a web development related issue. Finally, the report will reflect on the experience gained in terms of professional development, teamwork, and effective communication. A summary of the key ideas covered in the report, with an emphasis on accomplishments and learning objectives, is concluded at the end.

1.2 Website Introduction

The Website was created to enable Sarawak's deaf community to provide their unique services, that could fulfil the needs and wants of many people. This website incorporates databases where all the information given by customers and volunteers will be saved, in addition to the standard presentation of services, service booking, and volunteer registration. Additionally, people can register, make an account, and even provide feedback regarding the many activities the organisation holds with its support of databases.

2. Contribution

2.1 Updated Site Map

2.2 Main functionalities, technical details and key features

2.2.1 database.php

```
35    // Create enquiry table
36    $sql = "CREATE TABLE IF NOT EXISTS enquiry (
37        id INT(6) UNSIGNED AUTO_INCREMENT PRIMARY KEY,
38        fname VARCHAR(30) NOT NULL,
39        lname VARCHAR(30) NOT NULL,
40        phoneno VARCHAR(15) NOT NULL,
41        email VARCHAR(50) NOT NULL,
42        communication VARCHAR(30) NOT NULL,
43        service VARCHAR(30) NOT NULL,
44        date DATE NOT NULL,
45        time TIME NOT NULL,
46        details MEDIUMTEXT
47    )";
48    if (!mysqli_query($conn, $sql)) {
49        die("Error creating table: " . mysqli_error($conn));
50    }
51
52    // Create feedback table
53    $sql = 'CREATE TABLE IF NOT EXISTS feedback (
54        id INT(6) UNSIGNED AUTO_INCREMENT PRIMARY KEY,
55        activity_id INT(6) NOT NULL,
56        name VARCHAR(50) NOT NULL,
57        feedback TEXT NOT NULL,
58        date TIMESTAMP DEFAULT CURRENT_TIMESTAMP
59    )';
60    if (!mysqli_query($conn, $sql)) {
61        die("Error creating table: " . mysqli_error($conn));
62    }
63
64    // Create activities table
65    $sql = "CREATE TABLE IF NOT EXISTS activities (
66        id INT(6) UNSIGNED AUTO_INCREMENT PRIMARY KEY,
67        title VARCHAR(100) NULL,
68        description1 TEXT NOT NULL,
69        description2 TEXT NULL,
70        list1 TEXT NULL,
71        list2 TEXT NULL,
72        list3 TEXT NULL,
73        list4 TEXT NULL,
74        list5 TEXT NULL,
75        list6 TEXT NULL,
76        list7 TEXT NULL,
77        list8 TEXT NULL,
78        asidelist1 TEXT NULL,
79        asidelist2 TEXT NULL,
80        asidelist3 TEXT NULL,
81        asidelist4 TEXT NULL,
82        asidelist5 TEXT NULL,
83        asidelist6 TEXT NULL,
84        link1 TEXT NULL,
85        link2 TEXT NULL,
86        link3 TEXT NULL,
87        photo VARCHAR(255) NOT NULL
88    )";
89    if (!mysqli_query($conn, $sql)) {
90        die("Error creating table: " . mysqli_error($conn));
91    }
```

Description:

The database.php file's main purposes are to establish a connection to a MySQL database named "aria" and create the three tables if they do not already exist. Using PHP, a connection is made, and the script runs the SQL queries to generate the activity, feedback, and enquiry tables. The user's entered information from the Enquiry Service form will be stored in the enquiry table. Whilst the user's feedback related to activities is stored in the feedback table and details about the different activities are stored in the activities table. Most importantly this file is needed to initialise the database structure which is highly needed by certain web pages, and this file should be included in those web pages that need it.

2.2.2 delete_record.php & delete_activity.php
delete_record.php:

```php
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $id = $_POST['id'];

    $servername = "localhost";
    $dbusername = "root";
    $dbpassword = "";
    $dbname = "aria";

    $conn = mysqli_connect($servername, $dbusername, $dbpassword, $dbname);

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

    $sql = "DELETE FROM login WHERE id = ?";
    if ($stmt = mysqli_prepare($conn, $sql)) {
        mysqli_stmt_bind_param($stmt, "i", $id);

        if (mysqli_stmt_execute($stmt)) {
            $message = "Record delete successfully";
            header("Location: adminview.php");
            exit();
        } else {
            echo "Error deleting record: " . mysqli_error($conn);
        }
        mysqli_stmt_close($stmt);
    } else {
        echo "Error preparing statement: " . mysqli_error($conn);
    }

    mysqli_close($conn);
} else {
    echo "Invalid request method.";
}
?>
```

delete_activity.php:

```php
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $id = $_POST['id'];

    $servername = "localhost";
    $dbusername = "root";
    $dbpassword = "";
    $dbname = "aria";

    $conn = mysqli_connect($servername, $dbusername, $dbpassword, $dbname);

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

    $sql = "DELETE FROM activities WHERE id = ?";
    if ($stmt = mysqli_prepare($conn, $sql)) {
        mysqli_stmt_bind_param($stmt, "i", $id);

        if (mysqli_stmt_execute($stmt)) {
            $message = "Record delete successfully";
            header("Location: management.php");
            exit();
        } else {
            echo "Error deleting record: " . mysqli_error($conn);
        }
        mysqli_stmt_close($stmt);
    } else {
        echo "Error preparing statement: " . mysqli_error($conn);
    }

    mysqli_close($conn);
} else {
    echo "Invalid request method.";
}
?>
```

Description:

The files delete_activity.php and delete_record.php act as a web interface that allows the admin to delete records from the tables "activities" and "login" in the database. HTML is used in both files to organise the pages, and PHP code is used to handle the deletion process when the POST requests are received. To delete the records based on the specific IDs, the PHP scripts allow to connect to the database, create SQL statements, run the statements, and if the deletion is successful, and if the deletion was in the "activities" or "login" table, it will redirect the admin to the "management.php" or "adminview.php" respectively. In conclusion, this functionality enables administrators to delete old or unnecessary items efficiently.

2.2.3 edit_record.php & edit_activity.php
edit_record.php:

```
16    <body>
17        <div class="main-container-unique">
18        <?php include 'adminNav.php';?>
19
20        <?php
21        if (session_status() == PHP_SESSION_NONE) {
22            session_start();
23        }
24
25        $id = $username = $password = "";
26
27        if ($_SERVER["REQUEST_METHOD"] == "GET" && isset($_GET['id'])) {
28            $id = $_GET['id'];
29
30            $servername = "localhost";
31            $dbusername = "root";
32            $dbpassword = "";
33            $dbname = "aria";
34
35            $conn = mysqli_connect($servername, $dbusername, $dbpassword, $dbname);
36
37            if (!$conn) {
38                die("Connection failed: " . mysqli_connect_error());
39            }
40
41            $sql = "SELECT * FROM login WHERE id = ?";
42            if ($stmt = mysqli_prepare($conn, $sql)) {
43                mysqli_stmt_bind_param($stmt, "i", $id);
44                mysqli_stmt_execute($stmt);
45                $result = mysqli_stmt_get_result($stmt);
46
47                if (mysqli_num_rows($result) == 1) {
48                    $row = mysqli_fetch_assoc($result);
49                    $username = $row['Username'];
50                    $password = $row['Password'];
51                } else {
52                    echo "No record found.";
53                    exit();
54                }
55                mysqli_stmt_close($stmt);
56            }
57            mysqli_close($conn);
58        } else {
59            echo "Invalid request.";
60            exit();
61        }
62        ?>
63
64        <div class="view-container-unique">
65            <h2>Edit Record</h2>
66            <form method="post" action="update_record.php" class="edit-form-unique">
67                <input type="hidden" name="id" value="<?php echo htmlspecialchars($id); ?>">
68                <label for="username">Username:</label>
69                <input type="text" id="username" name="username" value="<?php echo htmlspecialchars($username); ?>" required>
70                <label for="password">Password:</label>
71                <input type="text" id="password" name="password" value="<?php echo htmlspecialchars($password); ?>" required><br>
72                <input type="submit" value="Update" class="update-btn">
73            </form>
74        </div>
75        </div>
76    </body>
77    </html>
```

edit_activity.php:

```php
<?php
if (session_status() == PHP_SESSION_NONE) {
    session_start();
}

if ($_SERVER["REQUEST_METHOD"] == "GET" && isset($_GET['id'])) {
    $id = $_GET['id'];

    $servername = "localhost";
    $dbusername = "root";
    $dbpassword = "";
    $dbname = "aria";

    $conn = mysqli_connect($servername, $dbusername, $dbpassword, $dbname);

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

    $sql = "SELECT * FROM activities WHERE id = ?";
    if ($stmt = mysqli_prepare($conn, $sql)) {
        mysqli_stmt_bind_param($stmt, "i", $id);
        mysqli_stmt_execute($stmt);
        $result = mysqli_stmt_get_result($stmt);

        if (mysqli_num_rows($result) == 1) {
            $row = mysqli_fetch_assoc($result);
            $title = $row['title'];
            $description1 = $row['description1'];
            $description2 = $row['description2'];
            $list1 = $row['list1'];
            $list2 = $row['list2'];
            $list3 = $row['list3'];
            $list4 = $row['list4'];
            $list5 = $row['list5'];
            $list6 = $row['list6'];
            $list7 = $row['list7'];
            $list8 = $row['list8'];
            $asidelist1 = $row['asidelist1'];
            $asidelist2 = $row['asidelist2'];
            $asidelist3 = $row['asidelist3'];
            $asidelist4 = $row['asidelist4'];
            $asidelist5 = $row['asidelist5'];
            $asidelist6 = $row['asidelist6'];
            $link1 = $row['link1'];
            $link2 = $row['link2'];
            $link3 = $row['link3'];
            $photo = $row['photo'];
        } else {
            echo "No record found.";
            exit();
        }
        mysqli_stmt_close($stmt);
    }
    mysqli_close($conn);
} else {
    echo "Invalid request.";
}
?>
<div class="view-container-unique">
    <h2>Edit Activity Record</h2>
    <form method="post" action="update_activity.php" class="edit-form-unique">
        <input type="hidden" name="id" value="<?php echo htmlspecialchars($id); ?>">

        <label for="title">Title:</label>
        <input type="text" id="title" name="title" value="<?php echo htmlspecialchars($title); ?>">

        <label for="description1">Description:</label>
        <input type="text" id="description1" name="description1" value="<?php echo htmlspecialchars($description1); ?>"><br>

        <label for="description2">Description 2:</label>
        <input type="text" id="description2" name="description2" value="<?php echo htmlspecialchars($description2); ?>"><br>

        <label for="list1">Point 1:</label>
        <input type="text" id="list1" name="list1" value="<?php echo htmlspecialchars($list1); ?>"><br>

        <label for="list2">Point 2:</label>
        <input type="text" id="list2" name="list2" value="<?php echo htmlspecialchars($list2); ?>"><br>

        <label for="list3">Point 3:</label>
        <input type="text" id="list3" name="list3" value="<?php echo htmlspecialchars($list3); ?>"><br>
```

Description:

both the files edit_record.php and edit_activity.php act as the web interface that allows the admin to edit records from the tables "activities" and "login" in the database. PHP code is used to take care of the editing of the login and activities records, and HTML is used to structure the webpage in these two files. When a GET request with a passed ID parameter is received, first the PHP script connects to the database, then retrieves the current details of the specified login record, and finally fills out a form with these details. Then the admin can update the records information. Lastly, with the help of another file (update_record.php and update_activity.php), the form will be submitted.

2.2.4 update_record.php & update_activity.php
update_record.php:

```php
15  <body>
16
17      <?php
18      if (session_status() == PHP_SESSION_NONE) {
19          session_start();
20      }
21
22      $message = '';
23
24      if ($_SERVER["REQUEST_METHOD"] == "POST" && isset($_POST['id'])) {
25          $id = $_POST['id'];
26          $username = $_POST['username'];
27          $password = $_POST['password'];
28
29          $servername = "localhost";
30          $dbusername = "root";
31          $dbpassword = "";
32          $dbname = "aria";
33
34          $conn = mysqli_connect($servername, $dbusername, $dbpassword, $dbname);
35
36          if (!$conn) {
37              die("Connection failed: " . mysqli_connect_error());
38          }
39
40          $sql = "UPDATE login SET Username = ?, Password = ? WHERE id = ?";
41          if ($stmt = mysqli_prepare($conn, $sql)) {
42              mysqli_stmt_bind_param($stmt, "ssi", $username, $password, $id);
43
44              if (mysqli_stmt_execute($stmt)) {
45                  $message = "Record updated successfully";
46                  header("Location: adminview.php");
47                  exit();
48              } else {
49                  $message = "Error updating record: " . mysqli_error($conn);
50              }
51              mysqli_stmt_close($stmt);
52          } else {
53              $message = "Error preparing statement: " . mysqli_error($conn);
54          }
55
56          mysqli_close($conn);
57      } else {
58          $message = "Invalid request.";
59      }
60      ?>
61
62      <?php if ($message != ''): ?>
63          <p><?php echo $message; ?></p>
64      <?php endif; ?>
65
66      <form name="updateForm" action="" method="POST">
67          <input type="hidden" name="id" value="<?php echo $_POST['id']; ?>">
68          <label for="username">Username:</label>
69          <input type="text" id="username" name="username" value="<?php echo $_POST['username']; ?>">
70          <label for="password">Password:</label>
71          <input type="text" id="password" name="password" value="<?php echo $_POST['password']; ?>">
72          <input type="submit" value="Update">
73      </form>
74
75      <?php include 'adminfooter.php';?>
76  </body>
```

update_activity.php:

```php
15   <body>
16       <?php
17       if (session_status() == PHP_SESSION_NONE) {
18           session_start();
19       }
20
21       $message = '';
22
23       if ($_SERVER["REQUEST_METHOD"] == "POST" && isset($_POST['id'])) {
24           $id = $_POST['id'];
25           $title = $_POST['title'];
26           $description1 = $_POST['description1'];
27           $description2 = $_POST['description2'];
28           $list1 = $_POST['list1'];
29           $list2 = $_POST['list2'];
30           $list3 = $_POST['list3'];
31           $list4 = $_POST['list4'];
32           $list5 = $_POST['list5'];
33           $list6 = $_POST['list6'];
34           $list7 = $_POST['list7'];
35           $list8 = $_POST['list8'];
36           $asidelist1 = $_POST['asidelist1'];
37           $asidelist2 = $_POST['asidelist2'];
38           $asidelist3 = $_POST['asidelist3'];
39           $asidelist4 = $_POST['asidelist4'];
40           $asidelist5 = $_POST['asidelist5'];
41           $asidelist6 = $_POST['asidelist6'];
42           $link1 = $_POST['link1'];
43           $link2 = $_POST['link2'];
44           $link3 = $_POST['link3'];
45           $photo = $_POST['photo'];
46
47           $servername = "localhost";
48           $dbusername = "root";
49           $dbpassword = "";
50           $dbname = "aria";
51
52           $conn = mysqli_connect($servername, $dbusername, $dbpassword, $dbname);
53
54           if (!$conn) {
55               die("Connection failed: " . mysqli_connect_error());
56           }
57
58           $sql = "UPDATE activities SET title = ?, description1 = ?, description2 = ?, list1 = ?,
59           list2 = ?, list3 = ?, list4 = ?, list5 = ?, list6 = ?, list7 = ?, list8 = ?, asidelist1 = ?,
60           asidelist2 = ?, asidelist3 = ?, asidelist4 = ?, asidelist5 = ?, asidelist6 = ?, link1 = ?, link2 = ?,
61           link3 = ?, photo = ? WHERE id = ?";
62           if ($stmt = mysqli_prepare($conn, $sql)) {
63               mysqli_stmt_bind_param($stmt, "sssssssssssssssssssssi", $title, $description1, $description2,
64               $list1, $list2, $list3, $list4, $list5, $list6, $list7, $list8, $asidelist1, $asidelist2, $asidelist3,
65               $asidelist4, $asidelist5, $asidelist6, $link1, $link2, $link3, $photo, $id);
66               if (mysqli_stmt_execute($stmt)) {
67                   $message = "Record updated successfully";
68                   header("Location: management.php");
69                   exit();
70               } else {
71                   $message = "Error updating record: " . mysqli_error($conn);
72               }
73               mysqli_stmt_close($stmt);
```

Description:

The purpose of the update_record.php and update_activity.php act as the web interface that allows the admin to update the records from the tables "activities" and "login" in the database. Like all files, the update_record.php and update_activity.php file includes HTML for structuring the webpage. However, the PHP code in these two files takes care of the updating of the login and activities record data. The PHP script updates the desired record with their new information when it receives the POST request containing the needed data. Once the updation was successful in the login and activities table, it redirects the admin to either "adminview.php" or "management.php", respectively.

2.2.5 adminview.php

```
21    <div class="view-container-unique">
22        <table class="view-table-unique">
23            <caption>Accounts Data</caption>
24            <tr>
25                <th>ID</th>
26                <th>Username</th>
27                <th>Passwords</th>
28                <th>Delete Account</th>
29                <th>Edit Account</th>
30            </tr>
31            <?php
32            $servername = "localhost";
33            $username = "root";
34            $password = "";
35            $dbname = "aria";
36            $conn = mysqli_connect($servername, $username, $password, $dbname);
37
38            $sql = "SELECT * FROM login";
39
40            $result = mysqli_query($conn, $sql);
41
42            if (mysqli_num_rows($result) > 0) {
43
44                while($row = mysqli_fetch_assoc($result)) {
45
46            ?>
47            <tr>
48                <td> <?php echo $row["id"]; ?></td>
49                <td> <?php echo $row["Username"]; ?></td>
50                <td> <?php echo $row["Password"]; ?></td>
51                <td>
52                    <form method="post" action="delete_record.php" onsubmit="return confirm('Are you sure you want to delete this record?');" cl
53                        <input type="hidden" name="id" value="<?php echo $row["id"]; ?>">
54                        <input type="submit" value="Delete" class="delete-btn-unique">
55                    </form>
56                </td>
57                <td>
58                    <form method="get" action="edit_record.php" class="edit-record-unique">
59                        <input type="hidden" name="id" value="<?php echo $row["id"]; ?>">
60                        <input type="submit" value="Edit" class="edit-btn-unique">
61                    </form>
62                </td>
63            </tr>
64            <?php
65                }
66            } else {
67                echo "0 results";
68            }
69            mysqli_close($conn);
70            ?>
71        </table>
```

Final Output:

Description:

Once the User Authentication is completed and the admin has logged in, he or she will be redirected to the adminview.php file which allows the admin to view, edit, and delete the various user accounts that are kept in the "login" table in the database. With the help of PHP, all the signed in user account data are fetched from the database and are stored in a table on this page for viewing, which is structured with the help of HTML. Two buttons allow the admin to edit and delete the record. If the "login" table is empty, a message will be displayed saying there are 0 results. This file ensures that the admins can effectively handle user accounts to perform certain operations.

2.2.6 management.php

```php
21          <h2>Activities Data</h2><br>
22
23          <form method="get" action="add_activity.php" class="add-form">
24              <label for="Add" class="add-label">Add a new record</label>
25                  <div class="add-col2">
26                      <input type="submit" value="Add" class="add-btn">
27                  </div>
28          </form>
29
30          <?php
31          $servername = "localhost";
32          $username = "root";
33          $password = "";
34          $dbname = "aria";
35          $conn = mysqli_connect($servername, $username, $password, $dbname);
36
37          $sql = "SELECT * FROM activities";
38          $result = mysqli_query($conn, $sql);
39
40          if (mysqli_num_rows($result) > 0) {
41              while($row = mysqli_fetch_assoc($result)) {
42              echo '<table class="view-table-unique">';
43              echo '<tr>';
44                  echo '<td class="activity-table-title">ID</td>';
45                  echo '<td class="activity-table-content">' . $row["id"] . '</td>';
46              echo '</tr>';
47
48              if ($row["title"] != NULL){
49                  echo '<tr>';
50                      echo '<td class="activity-table-title">Title</td>';
51                      echo '<td>' . $row["title"] . '</td>';
52                  echo '</tr>';
53              }
54              if ($row["description1"] != NULL){
55                  echo '<tr>';
56                      echo '<td class="activity-table-title">Description</td>';
57                      echo '<td>' . $row["description1"] . '</td>';
```

```php
175
176              echo '<tr>';
177                  echo '<td class="activity-table-title">Edit Record</td>';
178                  echo '<td>';
179                      echo '<form method="get" action="edit_activity.php" class="edit-activity-unique">';
180                          echo '<input type="hidden" name="id" value="' . $row["id"] . '">';
181                          echo '<input type="submit" value="Edit" class="edit-btn-unique">';
182                      echo '</form>';
183                  echo '</td>';
184              echo '</tr>';
185
186              echo '<tr>';
187                  echo '<td class="activity-table-title">Delete Record</td>';
188                  echo '<td>';
189                      echo '<form method="post" action="delete_activity.php"
190                      onsubmit="return confirm(\'Are you sure you want to delete this record?\');"
191                      class="delete-activity-unique">';
192                          echo '<input type="hidden" name="id" value="' . $row["id"] . '">';
193                          echo '<input type="submit" value="Delete" class="delete-btn-unique">';
194                      echo '</form>';
195                  echo '</td>';
196              echo '</tr>';
197
198              echo '<tr>';
199                  echo '<td class="activity-table-title">View in Page</td>';
200                  echo '<td>';
201                      echo '<form method="post" action="view_activity.php" class="delete-activity-unique">';
202                          echo '<input type="submit" value="View" class="delete-btn-unique">';
203                      echo '</form>';
204                  echo '</td>';
205              echo '</tr>';
206
207              echo '</table>';
208              echo '<br>';
209              }
210          } else {
211              echo "0 results";
212          }
213          mysqli_close($conn);
214          ?>
```

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Final Output:

Description:

To allow the admin to perform the operations of view, edit, delete and add records to the activities table in the database, the management.php file is used. The web page's structure is handled by HTML in this file, while PHP code takes care of how activity information should be presented in the table and the operations mentioned before. after the connection is made, and the information is fetched, the records row which is not empty will only be presented in the table that is viewed. The table also includes buttons that reroute to edit_activity.php, delete_activity.php and view_activity.php, respectively. The file also includes another button at the start for adding any new activity records, redirecting to add_activity.php.

2.2.7   Activities.php & insert_activities.php

Activities.php:

```php
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $servername = "localhost";
    $username = "root";
    $password = "";
    $dbname = "aria";

    // Create connection
    $conn = mysqli_connect($servername, $username, $password, $dbname);

    // Check connection
    if (!$conn) {
        die('Connection failed: ' . mysqli_connect_error());
    }

    $activity_id = $_POST['activity_id'];
    $name = mysqli_real_escape_string($conn, $_POST['name']);
    $feedback = mysqli_real_escape_string($conn, $_POST['feedback_' . $activity_id]);

    $sql = "INSERT INTO feedback (activity_id, name, feedback) VALUES ('$activity_id', '$name', '$feedback')";

    if (!mysqli_query($conn, $sql)) {
        die('Error: ' . $sql . '<br>' . mysqli_error($conn));
    }

    mysqli_close($conn);

    // Redirect to the same page to prevent form resubmission
    header('Location: ' . $_SERVER['PHP_SELF']);
    exit;
}

function feedback($conn, $activity_id) {
    echo '<div class="feedback">';
    echo '<h3 class="JayH3">Leave a feedback:</h3>';
    echo '<div class="feedback-form">';
    echo '<form action="Activities.php" method="post">';
    echo '<input type="text" name="name" placeholder="Your Name" required class="feedback-name"><br>';
    echo '<textarea name="feedback_' . $activity_id . '" placeholder="Your Feedback" required class="feedback-textbox"></textarea><br>';
    echo '<input type="hidden" name="activity_id" value="' . $activity_id . '">';
    echo '<button type="submit" class="feedback-btn">Feedback</button>';
    echo '</form>';
    echo '</div>';
    echo '<div class="comments">';
    echo '<h3 class="JayH3">Users feedbacks</h3>';
    $feedback_result = mysqli_query($conn, "SELECT name, feedback, date FROM feedback WHERE activity_id = " . intval($activity_id) . " ORDER BY date DESC");
    while ($feedback_row = mysqli_fetch_assoc($feedback_result)) {
        echo '<div class="comment-name">' . htmlspecialchars($feedback_row['name']) . '</div>';
        echo '<span class="comment-text">' . htmlspecialchars($feedback_row['feedback']) . '</span>';
        echo '<small class="comment-date">Submitted on: ' . $feedback_row['date'] . '</small>';
    }
    echo '</div>';
    echo '</div>';
}
?>
```

```php
<section class="JaySection">
    <?php
    $conn = mysqli_connect("localhost", "root", "", "aria");
    if (!$conn) {
        die("Connection failed: " . mysqli_connect_error());
    }

    $result1 = mysqli_query($conn, "SELECT id, title, description1, description2, list1, list2, list3, list4, list5, list6,
    list7, list8, asidelist1, asidelist2, asidelist3, asidelist4, asidelist5, asidelist6, link1, link2, link3, photo FROM
    activities WHERE id = 1");

    if (mysqli_num_rows($result1) > 0) {
        while($row = mysqli_fetch_assoc($result1)) {
            echo '<h3 class="JayH3">' . $row["title"] . '</h3>';
            echo '<figure class="JayFigure">';
            echo '<img class="JImg" src="Images/' . $row["photo"] . '" alt="' . $row["title"] . '" title="' . $row["title"] . '">';
            echo '<figcaption class="JayFigcaption">' . $row["description1"] . '<br>';
            echo '<ul class="list1">';
            echo '<li>' . $row["list1"] . '</li>';
            echo '<li>' . $row["list2"] . '</li>';
            echo '<li>' . $row["list3"] . '</li>';
            echo '<li>' . $row["list4"] . '</li>';
            echo '<li>' . $row["list5"] . '</li>';
            echo '</ul>';

            echo $row["description2"];
            echo '<ol class="JOl">';
            echo '<li>' . $row["list6"] . '</li>';
            echo '<li>' . $row["list7"] . '</li>';
            echo '<li>' . $row["list8"] . '</li>';
            echo '</ol>';

            echo '<aside class="JAside">';
            echo '<dl>';
            echo '<dt><b>[' . $row["title"] . ']</b></dt>';
            echo '<dd>🎬 Event date: ' . $row["asidelist1"] . '</dd>';
            echo '<dd>🕐 Activity time: ' . $row["asidelist2"] . '</dd>';
            echo '<dd>📍 Venue: ' . $row["asidelist3"] . '</dd>';
            echo '<dd>🚌 Location: <a href="' . $row["link1"] . '">' . $row["asidelist4"] . '</a></dd>';
            echo '<dd>📧 Email: <a href="' . $row["link2"] . '">' . $row["asidelist5"] . '</a></dd>';
            echo '<dd>🌐 Website: <a href="' . $row["link3"] . '">' . $row["asidelist6"] . '</a></dd>';
            echo '</dl>';
            echo '</aside>';
            echo '</figcaption>';
            echo '</figure>';
    ?>
            <table class="ECalendar">
                <caption class="event-calendar"><b>EVENT CALENDAR</b></caption>
                <tr>
                    <th class="Jayth">Event Name</th>
                    <th class="Jayth">Date</th>
                    <th class="Jayth">Time</th>
                    <th class="Jayth">Location</th>
                </tr>
                <tr>
                    <td class="Jaytd"><?php echo $row["title"]; ?></td>
                    <td class="Jaytd"><?php echo $row["asidelist1"]; ?></td>
                    <td class="Jaytd"><?php echo $row["asidelist2"]; ?></td>
                    <td class="Jaytd"><?php echo $row["asidelist3"]; ?></td>
                </tr>
```

```php
                </tr>
            </table>
<?php
        feedback($conn, $row["id"]);
    }
}

mysqli_close($conn);
?>

</section>
<?php
    $conn = mysqli_connect("localhost", "root", "", "aria");
    if (!$conn) {
        die("Connection failed: " . mysqli_connect_error());
    }

    $result1 = mysqli_query($conn, "SELECT id, title, description1, description2, list1, list2, list3, list4, list5, list6, list7, list8,
    asidelist1, asidelist2, asidelist3, asidelist4, asidelist5, asidelist6, link1, link2, link3, photo FROM activities WHERE id >= 8 ");

    if ($result1 && mysqli_num_rows($result1) > 0)  {
        while($row = mysqli_fetch_assoc($result1)) {
            if (!empty($row['description1'])){
                echo '<section class="JaySection">';
                echo '<h3 class="JayH3">' . $row["title"] . '</h3>';
                echo '<figure class="JayFigure">';
                echo '<img class="JImg" src="Images/' . $row["photo"] . '" alt="' . $row["title"] . '" title="' . $row["title"] . '">';
                echo '<figcaption class="JayFigcaption">' . $row["description1"] . '<br>';

                echo '<ul class="list1">';
                if (!empty($row['list1'])) {
                    echo '<li>' . $row["list1"] . '</li>';
                }
                if (!empty($row['list2'])) {
                    echo '<li>' . $row["list2"] . '</li>';
                }
                if (!empty($row['list3'])) {
                    echo '<li>' . $row["list3"] . '</li>';
                }
                if (!empty($row['list4'])) {
                    echo '<li>' . $row["list4"] . '</li>';
                }
                if (!empty($row['list5'])) {
                    echo '<li>' . $row["list5"] . '</li>';
                }
                echo '</ul>';

                echo $row["description2"];
                echo '<ol class="JOl">';
                if (!empty($row['list6'])) {
                    echo '<li>' . $row["list6"] . '</li>';
                }
                if (!empty($row['list7'])) {
                    echo '<li>' . $row["list7"] . '</li>';
                }
                if (!empty($row['list8'])) {
                    echo '<li>' . $row["list8"] . '</li>';
                }
                echo '</ol>';

                if (!empty($row['asidelist1']) && !empty($row['asidelist2']) && !empty($row['asidelist3']) && !empty($row['asidelist4']) && !empty($row['asidelist5']) &&
                !empty($row['asidelist6']) && !empty($row['link1']) && !empty($row['link2']) && !empty($row['link3'])){
                    echo '<aside class="JAside">';
                    echo '<dl>';
                    echo '<dt><b>[' . $row["title"] . ']</b></dt>';
                    echo '<dd>📅 Event date: ' . $row["asidelist1"] . '</dd>';
                    echo '<dd>🕐 Activity time: ' . $row["asidelist2"] . '</dd>';
                    echo '<dd>📍 Venue: ' . $row["asidelist3"] . '</dd>';
                    echo '<dd>📌 Location: <a href="' . $row["link1"] . '">' . $row["asidelist4"] . '</a></dd>';
                    echo '<dd>📧 Email: <a href="' . $row["link2"] . '">' . $row["asidelist5"] . '</a></dd>';
                    echo '<dd>🌐 Website: <a href="' . $row["link3"] . '">' . $row["asidelist6"] . '</a></dd>';
                    echo '</dl>';
                    echo '</aside>';
                    echo '</figcaption>';
                    echo '</figure>';

                    echo '<table class="ECalendar">';
                    echo '<caption class="event-calendar"><b>EVENT CALENDAR</b></caption>';
                    echo '<tr>';
                    echo '<th class="Jayth">Event Name</th>';
                    echo '<th class="Jayth">Date</th>';
                    echo '<th class="Jayth">Time</th>';
                    echo '<th class="Jayth">Location</th>';
                    echo '</tr>';
                    echo '<tr>';
                    echo '<td class="Jaytd">' . $row["title"] . '</td>';
                    echo '<td class="Jaytd">' . $row["asidelist1"] . '</td>';
                    echo '<td class="Jaytd">' . $row["asidelist2"] . '</td>';
                    echo '<td class="Jaytd">' . $row["asidelist3"] . '</td>';
                    echo '</tr>';
                    echo '</table>';
                    feedback($conn, $row["id"]);
                    echo '</section>';

                } else {
                    echo '</figcaption>';
                    echo '</figure>';
                    feedback($conn, $row["id"]);
                    echo '</section>';
                }
            } else {
                echo '<p>description1 is empty for title ' . $row["title"] . '.</p>';
            }
        }
    }

    mysqli_close($conn);
?>
```

15

insert_activities.php:

```php
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "aris";

// Create connection
$conn = mysqli_connect($servername, $username, $password, $dbname);

// Check connection
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}

$sql_check = "SELECT COUNT(*) as count FROM activities";
$result = mysqli_query($conn, $sql_check);
$row = mysqli_fetch_assoc($result);

if ($row['count'] == 0) {
    $sql_insert = "INSERT INTO activities (title, description1, description2, list1, list2, list3, list4, list5, list6, list7, list8, asidelist1, asidelist2, asidelist3, asidelist4, asidelist5, asidelist6, link1, link2, link3, photo) VALUES
    ('Charity Food Fair', 'Purchase a coupon worth RM100 each, and get a chance to purchase various items on the day of the charity bazaar to support the Sarawak Society of the Deaf (SSD) in raising RM300,000 for the benefit of the deaf community. Your donat...
    ('Unity Charity & Culture Dinner', 'Our Team Sharing A Table', NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 'CNY1.jpg'),
    (NULL, 'The National Consumer Action Council - Sarawak (MTPN) and the Malaysian Sustainable Society Foundation (YMLM) generously donate RM3000 to Sarawak Society for Deaf (SSD)', NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NUL...
    ('Sulam BIM Poetry Project Closing Ceremony between UNIMAS/SSD', 'Secretary Helena Lim Giving Lecture On Behalf Of SSD.', NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 'Poet1.jpg'),
    (NULL, 'A group photo was taken with Dr. Dolly (UNIMAS lecturer), five UNIMAS students together with SSD committee and staff.', NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 'Poet2.jpg'),
    ('Sarawak Energy Isthmus Run 2023', 'Sarawak Energy Berhad Organized A Marathon Event Sarawak Energy Isthmus Run 2023.', NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 'Run1.jpg'),
    (NULL, 'Sarawak Energy Berhad presented a donation to SSD represented by Chairman Albert Wong.', NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL, 'Run2.jpg')";

    if (mysqli_query($conn, $sql_insert)) {
        echo "";
    } else {
        echo "Error: " . $sql_insert . "<br>" . mysqli_error($conn);
    }
}

mysqli_close($conn);
?>
```

Final Output:

Description:

The purpose of the Activities.php file is to display various activities and events, including upcoming and past events, and it also includes user feedback. It includes HTML for structuring the webpage and PHP code to retrieve the activity's information from the database and it dynamically displays the information depending on whether the information for a row is present or not. It also includes forms under each activity for users to submit their feedback, which are then stored in the "feedback" table and are displayed in their respective activity. insert_activities.php ensures that the initial activities data is inserted into the database if no records exist, preventing duplication.

2.2.8 view_activity.php

```
79    <form method="post" action="management.php" class="add-form">
80        <input type="submit" value="Return to management" class="return-col2">
81    </form>
```

Description:

The code in view_activity.php is like the code found in Activities.php, but with the addition of a return button in the start and end of the page. Additionally, the navigation and the footer are removed as well.

2.2.9 add_activity.php & AddActivity_process.php
add_activity.php:

```
-</head>
|<body>

    <?php include ('connection.php'); ?>
    <?php include ('database.php'); ?>


    <div class="activity-form-container">
        <div class="mid">
            <br>
            <h4 class="h4-form">Add to Activity</h4>
            <br>

            <form method="post" action="AddActivity_process.php"  class="form-css">
                <h5>Main Information:</h5>
                <fieldset>
                    <div class="main">
                        <div class="col1">
                            <label for="title" class="form-label">Title: </label>
                        </div>
                        <div class="col2">
                            <input type="text" name= "title" id="title" maxlength="50" placeholder="Title" required="required"/>
                        </div>
                    </div>
                    <div class="main">
                        <div class="col1">
                            <label for="description1" class="form-label">Description: </label>
                        </div>
                        <div class="col2">
                            <input type="text" name= "description1" id="description1" placeholder="Description" required="required" />
                        </div>
                    </div>
                    <div class="main">
                        <div class="col1">
                            <label for="photo" class="form-label">Photo: </label>
                        </div>
                        <div class="col2">
                            <input type="text" id="photo" name="photo" placeholder="e.g. example.png" required="required" />
                        </div>
                    </div>
                </fieldset>

                <h5>Any Points?:</h5>
                <fieldset>
                    <div class="main">
                        <div class="col1">
                            <label for="list1" class="form-label">Point 1: </label>
```

AddActivity_process.php:

```php
22    <?php
23
24        $title = $description1 = $description2 = $list1 = $list2 = $list3 = $list4 =
25        $list5 = $list6 = $list7 = $list8 = $asidelist1 = $asidelist2 = $asidelist3 =
26        $asidelist4 = $asidelist5 = $asidelist6 = $link1 = $link2 = $link3 = $photo = "";
27
28        if (isset($_POST['title'])) {
29            $title = $_POST['title'];
30        }
31
32        if (isset($_POST['description1'])) {
33            $description1 = $_POST['description1'];
34        }
35
36        if (isset($_POST['description2'])) {
37            $description2 = $_POST['description2'];
38        }
39
40        if (isset($_POST['list1'])) {
41            $list1 = $_POST['list1'];
42        }
43
44        if (isset($_POST['list2'])) {
45            $list2 = $_POST['list2'];
46        }
47
48        if (isset($_POST['list3'])) {
49            $list3 = $_POST['list3'];
50        }
51
52        if (isset($_POST['list4'])) {
53            $list4 = $_POST['list4'];
54        }
55
56        if (isset($_POST['list5'])) {
57            $list5 = $_POST['list5'];
```

```html
115        <h2>Additional Activity Confirmation</h2>
116
117        <div class="container">
118            <p class="confirm-p">Latest addition to the Activities page:</p>
119            <table class="confirm-table">
120                <tr>
121                    <td class="confirm-title">Title:</td>
122                    <td class="confirm-content"><?php echo $title; ?></td>
123                </tr>
124                <tr>
125                    <td class="confirm-title">Description:</td>
126                    <td class="confirm-content"><?php echo $description1; ?></td>
127                </tr>
128                <tr>
129                    <td class="confirm-title">Extra Description:</td>
130                    <td class="confirm-content"><?php echo $description2; ?></td>
131                </tr>
132                <tr>
133                    <td class="confirm-title">Point 1:</td>
134                    <td class="confirm-content"><?php echo $list1; ?></td>
135                </tr>
136                <tr>
137                    <td class="confirm-title">Point 2:</td>
138                    <td class="confirm-content"><?php echo $list2; ?></td>
139                </tr>
140                <tr>
141                    <td class="confirm-title">Point 3:</td>
142                    <td class="confirm-content"><?php echo $list3; ?></td>
```

```php
210    <?php
211
212        $servername = "localhost";
213        $username = "root";
214        $password = "";
215        $dbname = "aria";
216
217        $conn = mysqli_connect($servername, $username, $password, $dbname);
218
219        if (!$conn) {
220            die("Connection failed: " . mysqli_connect_error());
221        }
222
223        $title = $_POST['title'];
224        $description1 = $_POST['description1'];
225        $description2 = $_POST['description2'];
226        $list1 = $_POST['list1'];
227        $list2 = $_POST['list2'];
228        $list3 = $_POST['list3'];
229        $list4 = $_POST['list4'];
230        $list5 = $_POST['list5'];
231        $list6 = $_POST['list6'];
232        $list7 = $_POST['list7'];
233        $list8 = $_POST['list8'];
234        $asidelist1 = $_POST['asidelist1'];
235        $asidelist2 = $_POST['asidelist2'];
236        $asidelist3 = $_POST['asidelist3'];
237        $asidelist4 = $_POST['asidelist4'];
238        $asidelist5 = $_POST['asidelist5'];
239        $asidelist6 = $_POST['asidelist6'];
240        $link1 = $_POST['link1'];
241        $link2= $_POST['link2'];
242        $link3 = $_POST['link3'];
243        $photo = $_POST['photo'];
244
245
246        $sql = "INSERT INTO activities (title, description1, description2, list1, list2, list3,
247        list4, list5, list6, list7, list8, asidelist1, asidelist2, asidelist3, asidelist4,
248        asidelist5, asidelist6, link1, link2, link3, photo)
249        VALUES ('$title', '$description1', '$description2', '$list1', '$list2', '$list3', '$list4',
250        '$list5', '$list6', '$list7', '$list8', '$asidelist1', '$asidelist2', '$asidelist3', '$asidelist4',
251        '$asidelist5', '$asidelist6', '$link1', '$link2', '$link3', '$photo')";
252
253        mysqli_query($conn, $sql);
254        mysqli_close($conn);
255
256    ?>
```

Final Output:

Description:

The add_activity.php and AddActivity_process.php files work together for the admin to add an upcoming activity to the "activities" table. add_activity.php includes an HTML form for the admin to fill in the upcoming activity's information. Once the form is completed and submitted, the form's data is sent to AddActivity_process.php, which processes the input with the help of PHP, by inserting the new activity's data into the table, whilst also displaying the recently added information to the admin as a confirmation of it being successfully added.

3. Reflection and Discussion

3.1 Experience Reflection

Reflecting on my experience with this project, I found it to be an enlightening journey that enhanced my professional purpose, teamwork, and communication skills. Understanding the project's requirements and aligning my work and efforts with the requirements enhanced my sense of professional purpose, which will be useful when I enter the workforce. Working with a team, meant I experienced the importance of collaboration and noticed many points. One is the project done in this unit exposed the underlying value of each team member's worth and the necessity of working together to achieve our desired website. Another is that effective communication was crucial in ensuring smooth coordination and resolving any misunderstandings. However, misunderstandings and clashes of ideas aren't always a bad thing, because once you've experienced that environment of clashing you tend to get closer together as a group. Additionally, working in a group improved my patience and willingness to go out of my way to help others. For example, even when busy with other assignments, I was ready to help my group members if they were ever needed it. My team and I would usually express our thoughts and feelings freely which ultimately resulted in many innovative ideas for our website. Overall, this project did improve my professional skills and emphasized the significance of teamwork and communication in achieving a collective goal.

3.2 Discussion on a web development related issue

In this project, privacy and security were an essential consideration. As we had a lot of user data being sent in and stored from the enquiry and volunteer forms, as well as the user accounts, ensuring that all these data were well protected from any unauthorized parties was an important objective to focus on. With the implementation of user authentication, we were able to achieve this objective. A lot of checks and tests were made to make sure the integrity of our system was fully proven. Privacy was also highly considered, resulting in us collecting only the data which was needed and providing the users with information about why their specific data was being asked. For the projects in the future, my team but most importantly I plan to continue to prioritize user privacy and security. One way is to constantly stay updated with the latest trends, security and privacy practices. With this as my goal for the future, it will enhance the trust between me as a developer and the users which may result in a good representation and more users ultimately coming in but also safeguards the integrity of the project.

4. <u>Conclusion</u>

In conclusion, this report provided a comprehensive review of the website development project for Sarawak's deaf community's new website, mainly the report focuses on the main objective of this assignment which was the integration of databases into our previous website created in Assignment 1. We explored the technical details of the development process, highlighted key features, and demonstrated the website's functionalities with the relevant screenshots. Reflecting on the experience, the project significantly enhanced my professional purpose, teamwork, and communication skills so that our collective goal of creating a well thought out website could be achieved. We also discussed about privacy and security as a web development issue, and how I plan to maintain and improve my privacy and security measures in my future projects. This unit has not only expanded my web development knowledge in PHP, HTML and CSS but also reinforced the value of teamwork and professional development, mainly thanks to Assignment 1, Assignment 2 and the HD task.