

A dark blue vertical bar runs along the left edge of the page. A blue arrow points to the right from this bar, containing the date.

5/29/2023

Assignment 2 Report

COS10026 Computing Technology Inquiry Project

Several thin, curved lines in dark blue and light grey originate from the bottom left corner and sweep upwards and to the right.

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B. Introduction

1. Report's Objective:

- Demonstrating the reporter's understanding of the group assignment, not only the reporter's tasks but also the whole team's work.
- Highlighting some key factors that the reporter has engaged in the project.
- Reflecting the reporter's personal experience, knowledge that he/she has acquired after doing this unit.

C. The Website

1. Website introduction

Service for Operations Engineers (SOE) is a company in Melbourne that provides services in terms of Web Development, Software Deployment, Cyber Security, etc. SOE connects businesses and IT professionals across Australia, offering customized services to suit unique needs. Our recruitment process guarantees that we hire the best IT talent to lead your business to success. We provide monitoring, troubleshooting, backup, and disaster recovery solutions for seamless 24/7 business operations. Our team offers honest advice, support, and guidance, ensuring that your infrastructure is managed by experts. With our in-depth understanding of the IT industry, we deliver bespoke services to every client. Our website is created by 5 team members: Jugraj Singh (104204262), Daniel Hindmarsh (104586973), Nina Lam (104060655), Mandeep Kaur (104330028) and Dan Ngo (104186810). The website has now been extended to connect to a MySQL database, which stores information regarding candidates who want to apply to our company. Besides that, we have also created a page for the company manager to see the information stored in the database and make changes if necessary.

2. Main functionalities of the website, including screenshots

- Take inputs from the submission form in apply.php and store in MySQL database

The first screenshot shows the 'JOB APPLICATION FORM' with the following sections:

- Job Reference Number:** abc12
- Personal details:** First Name (Dan), Last Name (Ngo), DOB (26/10/2004), Street Address (sawon), Suburb/Town (sawon), State (VIC), Post Code (3546).
- Gender:** Female, Male, TransGender, Non Binary, Others.
- Contact details:** Phone Number (0564321456), E-mail Address (sawon@gmail.com).
- Skills and Experience:** Skills (Object Oriented programming, APIs, AWS, Java, Python, Other Skills), Other Skills (WEViewWW).

The second screenshot shows the phpMyAdmin database view for the 'JOB APPLICATION FORM' table. The table contains the following data:

EOI Number	Job Reference	First Name	Last Name	DOB	Gender	Street Address	Suburb/Town	State	Postcode	Email Address	Phone Number	Skill_01	Skill_02	Skill_03	Other Skills	Status
2	123	Nina	Lam	2004-08-19	Female	24 Wakefield St	Hawthorn	VIC	3122	ninay199@gmail.com	0405143303	NULL	NULL	NULL		Current
10	20234	Nia	Lam	2004-08-19	Female	24 Wakefield St	Hawthorn	VIC	3122	lamnina199@gmail.com	0405143303	NULL	NULL	NULL		New
11	shy1	jagrij	singh	0000-00-00	Female	house no. 3165	ponemohar amritsar purjab	Please Select	1430	jagrijsinghshu00@gmail.com	+19914954029	NULL	NULL	NULL		New
14	shu	jagrij	singh	0000-00-00	Male	house no. 3165	ponemohar amritsar purjab	NSW	1430	jagrijsinghshu00@gmail.com	+19914954	NULL	NULL	NULL		New
15	pubc	jagrij	singh	0000-00-00	Male	house no. 3165	ponemohar amritsar purjab	NSW	1430	jagrijsinghshu00@gmail.com	+1991495452	NULL	NULL	NULL		New
16	shy1	jagrij	singh	2003-05-03	Male	house no. 3165	ponemohar amritsar purjab	QLD	1430	jagrijsinghshu00@gmail.com	+199149	NULL	NULL	NULL		New

- Requires login information to access to manage.php

The screenshot shows the 'Manager Login' form with the following sections:

- Welcome Manager**
- Name:** (User Name)
- Password:** (Password)
- Login** button
- Name:** s104204262
- Password:** 210503

The bottom section shows the 'Manager Login' form with the following sections:

- SOE Company** (Home, Apply, Jobs, About, Enhancements, Profiles, Login)
- Contact Us** (Terms and Conditions, Contributions)
- Follow us** (Facebook, Instagram, LinkedIn)

- manage.php displays all information stored in MySQL database, this page also contains a logout button to sign out the login session and return to the login screen.

3. Key/innovative features of the website.

- manage.php cannot be accessed directly using URL, user have to login correct information to access it.
- apply.php sends the inputs to the file while ensuring the inputs are sanitised properly in order not to damage the website.
- manage.php have multiple functionalities in terms of displaying or editing the database.

D. My Contribution

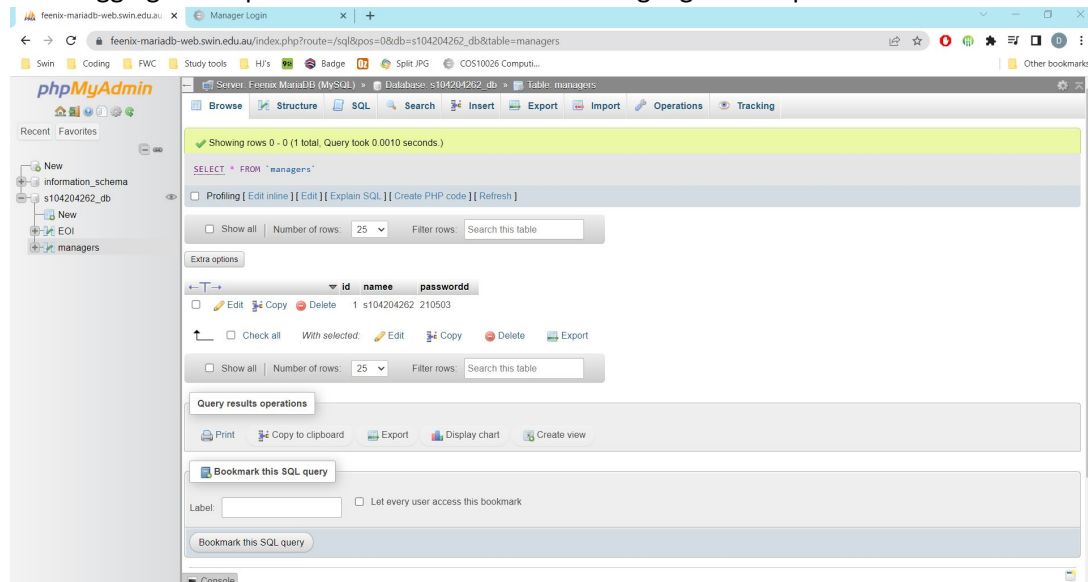
- Take over Daniel Hindmarsh's leader role to lead the team completing the assignment after his disappearance. Daniel's contribution to the team has been assigning tasks to the team members and completing the first specified requirement (use PHP to reuse common elements in your Website) in week 7.
- Set up settings.php using Jugraj Singh's database.

```

1 <?php
2 $host = "feenix-mariadb.swin.edu.au";
3 $user = "s104204262"; // Jugraj Singh
4 $pwd = "210503";
5 $sql_db = "s104204262_db";
6 $conn = @mysqli_connect($host,
7 $user,
8 $pwd,
9 $sql_db
10 );
11 ?>
    
```

- Make enhancement 1: login page for manager, the correct username and password for logging in is stored in the "managers" table in Jugraj Singh database. However, it does not have the feature of disabling the user

from logging in in a period of time after several wrong login attempts.



```

phpenhancements.php X
C: > Users > ducda > AppData > Local > Temp > scp53345 > php enhancements.php > html
1  <!DOCTYPE html>
2  <html lang='en'>
3  <head>
4      <meta charset="utf-8" />
5      <meta name = "description" content = "SOE Manager Login" />
6      <meta name = "keywords" content = "PHP, MySQL, SOE, Manager" />
7      <meta name = "author" content = "Dan Ngo" />
8      <link rel="stylesheet" href="styles/style.css">
9      <link rel="icon" type="image/x-icon" href="images/soe_logo_transparent_small.png">
10     <title>Manager Login</title>
11 </head>
12
13 <body>
14 <?php
15     include ("Header.inc");
16 ?>
17     <form action = "login.php" method = "post">
18         <h1>Welcome Manager</h1>
19 <?php if (isset($_GET['error'])) {
20     echo $_GET['error'] . "<br/>";
21 }
22 ?>
23     <label for = "name">Name</label>
24     <input type = "text" name = "name" id = "name" placeholder = "User Name" required = "required"><br/>
25
26     <label for = "password">Password</label>
27     <input type = "password" name = "pwd" id = "password" placeholder = "Password" required = "required"><br/>
28
29     <input type = "submit" value="Login" class="btnappy"/>
30 </form>
31
32 <p>Name: s104204262 <br/> Password: 210503</p>
33 <?php
34     include ("Footer.inc");
35 ?>
36 </body>
37 </html>
    
```

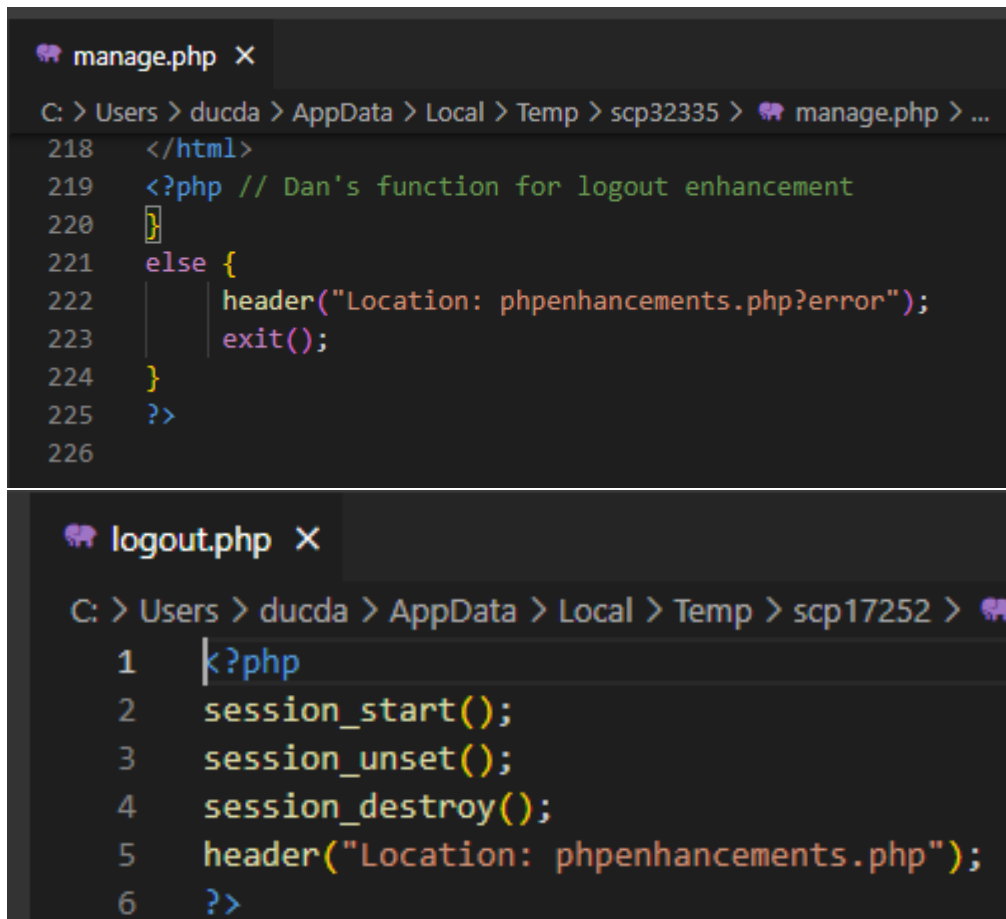
- Make enhancement 2: logout function in manage.php for the manager to logout, it also ensures manage.php cannot be accessed by URL, if the user tries to do it, the website will return back to the login screen prompting the user to login properly.

```

manage.php X
C: > Users > ducda > AppData > Local > Temp > scp32335 > manage.php > ...
1  <?php // Dan's function for logout enhancement
2  session_start();
3  if (isset($_SESSION["id"]) and isset($_SESSION["name"])) {
4  ?>
    
```

```

manage.php X
C: > Users > ducda > AppData > Local > Temp > scp32335 > manage.php > html
212     echo "<a href='logout.php'><h1>LOGOUT</h1></a>"; // Dan's function for logout enhancement
    
```



The image shows two screenshots of code editors. The top editor is titled 'manage.php' and shows a PHP script with lines 218 to 226. The bottom editor is titled 'logout.php' and shows a PHP script with lines 1 to 6. Both scripts use the 'header()' function to redirect to 'phpenhancements.php' in case of an error.

```
manage.php X
C: > Users > ducda > AppData > Local > Temp > scp32335 > manage.php > ...
218 </html>
219 <?php // Dan's function for logout enhancement
220 }
221 else {
222     header("Location: phpenhancements.php?error");
223     exit();
224 }
225 ?>
226

logout.php X
C: > Users > ducda > AppData > Local > Temp > scp17252 > 
1 <?php
2 session_start();
3 session_unset();
4 session_destroy();
5 header("Location: phpenhancements.php");
6 ?>
```

- Double-check all pages to ensure they are validated, fix apply.php because there were some errors in terms of validation.
- Merge all team member's demonstration video to make the team's video and upload to YouTube.

E. Reflection and Discussion

- Throughout this unit, I had the opportunity to collaborate with the Unit lecturer, Workshop tutor, and my team, which immensely enhanced my knowledge in website development using HTML, CSS, PHP, and MySQL database. The hands-on experience and guidance received from the experts enabled me to grasp the fundamentals of creating functional and visually appealing websites. Additionally, working within a team environment sharpened my professional teamwork skills, including effective communication, managing schedules, and consistently meeting deadlines. The collaborative atmosphere fostered a dynamic learning experience, allowing me to grow both technically and personally in the realm of web development.
- In this project, I consider security is one of the most important issues. Therefore, my team and I has focused much on processEOI.php to ensure the user cannot submit HTML or PHP elements to the form, which can fatally damage our website. Apart from that, login and logout functions are also a key factor since the user now has no way to access to manage.php unless logging in with the correct username and password.

F. Conclusion

- Overall, this report has focused on our development for the website using PHP and MySQL database, this project is a precious experience for us to develop our skills as a web designer/developer.