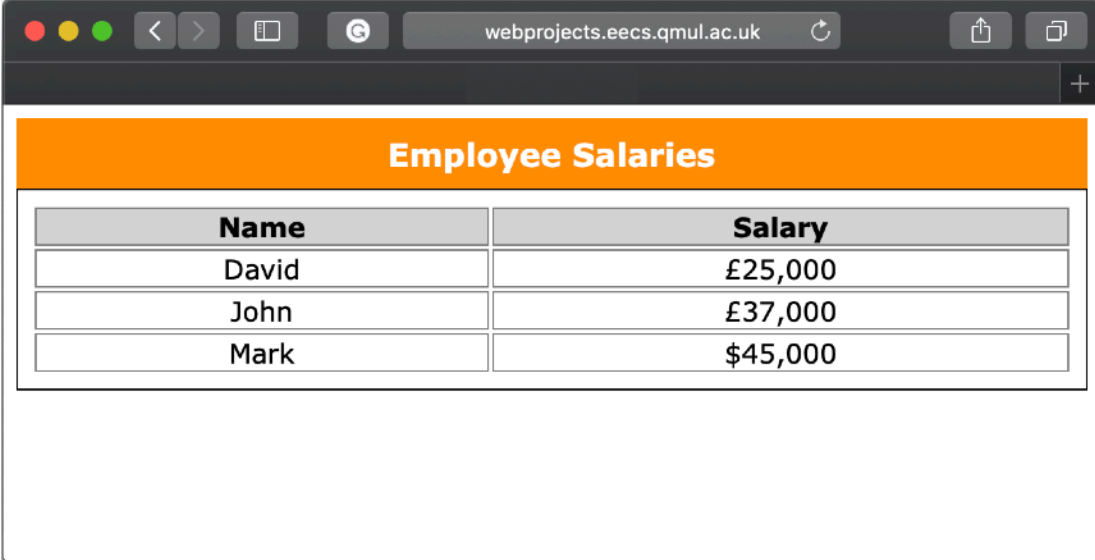


ECS417U Lab Sheet

Topic 8 - PHP Basics

Exercise 1



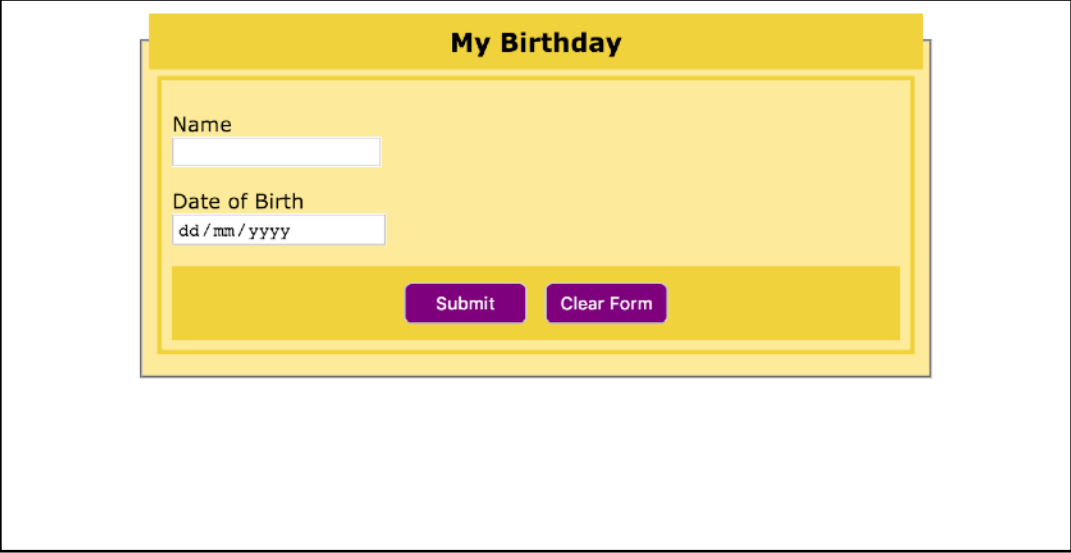
The screenshot shows a web browser window with the address bar displaying 'webprojects.eecs.qmul.ac.uk'. The main content area features a table with an orange header row. The table has two columns: 'Name' and 'Salary'. It contains three data rows with the following information:

Name	Salary
David	£25,000
John	£37,000
Mark	\$45,000

FIGURE 1

Write a PHP script and external style sheet that outputs a webpage that looks similar to the example shown in figure 1. The salary figures of the three people need to be stored in three variables respectively. These variables are then used in echo or print functions to generate the necessary HTML5 table elements.

Exercise 2



The screenshot shows a web form titled 'My Birthday'. It contains two input fields: 'Name' and 'Date of Birth'. The 'Date of Birth' field has a placeholder text 'dd/mm/yyyy'. Below the input fields are two buttons: 'Submit' and 'Clear Form'.

FIGURE 2

For this exercise, you will be expected to create a HTML5 document, which has a form that collects the name and date of birth of the user. An example of this page is shown in figure 2, where you will need to also create an external style sheet called reset.css that removes all the browser formatting and another style sheet called exercise2.css, which will specify the styling for the table. The form method should be "POST" and action should be 'exercise2.php'.

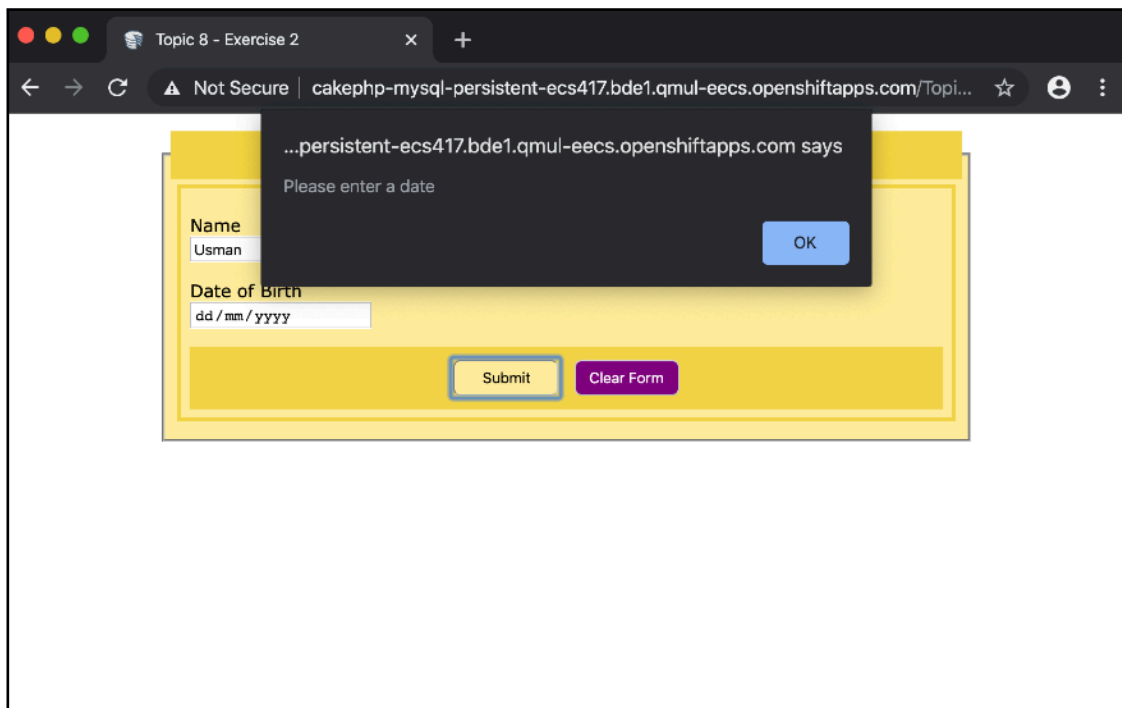


FIGURE 3

You will also need to create an external JavaScript file (exercise2.js), which will be used to provide validation for the 'date of birth' field (see figure 3). Also make use of the HTML5 form validation for the 'name' field (see figure 4).

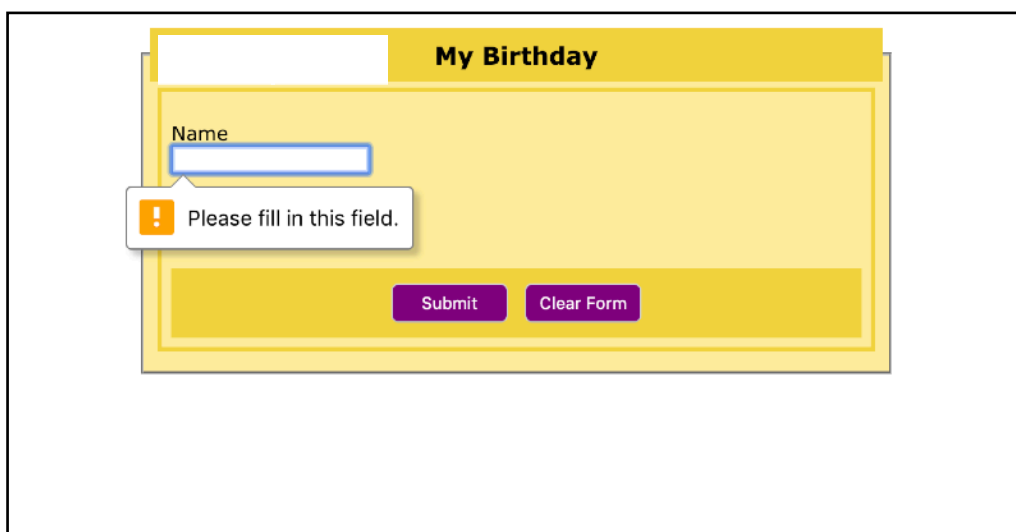


FIGURE 4

You will also need to create a PHP script (exercise2.php), which will process the form input by calculating the time (in seconds, minutes, hours, days, weeks, and years) passed by since the birthday of the user. You should use the built-in functions `date()` and `time()`. A detailed description of these two functions can be found in the PHP manual (<http://php.net/manual/en/function.date.php>). You will need to use predefined math functions to generate integer numbers (for seconds, minutes, etc.) in your output. You also need to use CSS to highlight the user birthday in the output. The output of the PHP script should be as similar as possible to the example shown in figure 5.

Hint: You will need to generate a timestamp from a string representation of the date.

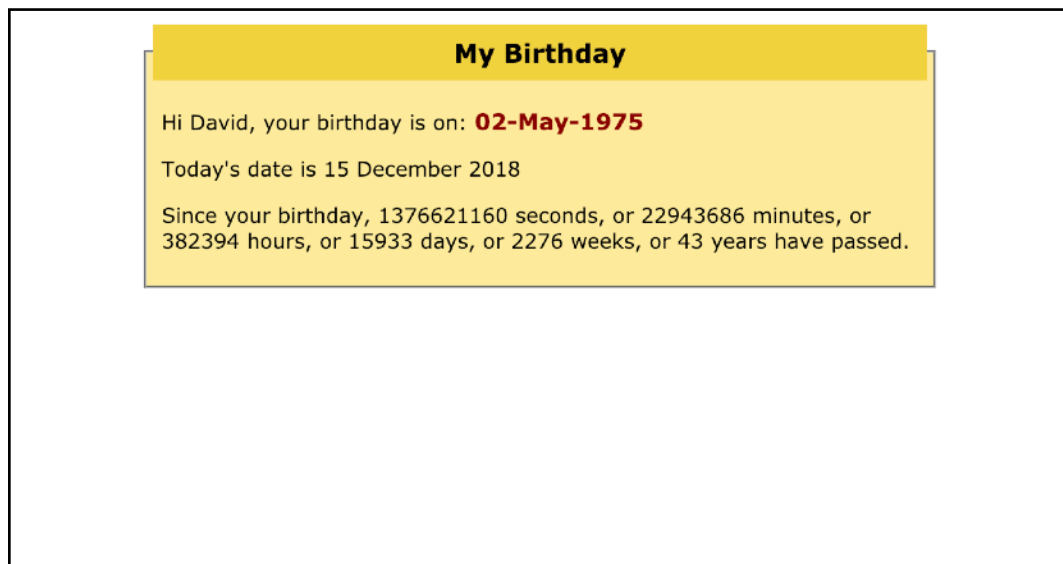


FIGURE 5

Exercise 3

Write a PHP script that calculates the sum of the integers from 1 to 100 using the three different loop statements: while, for, and do-while.

Exercise 4

For this exercise, you will need to demonstrate your ability to work with PHP by converting exercise4.html into a PHP file that looks similar to that shown in figure 6. In order to undertake this exercise, you will need to download the following files from QMPlus+:

- exercise4.html - this provides all the necessary markup, which also utilises Bootstrap classes.
- exercise4.css
- login-data.php - this file sets the values of two variables: `$email` and `$password`.

The purpose of this exercise is to simply populate the input type values within your HTML form with the variables in your PHP script.

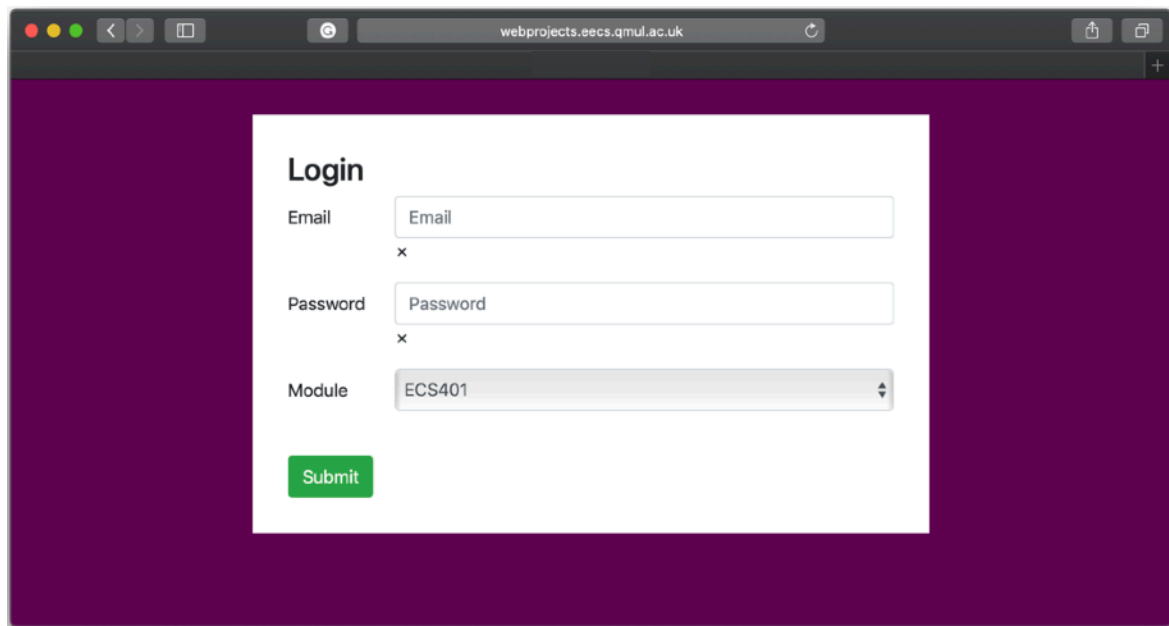


FIGURE 6

1. Within your PHP file, use the `include()` function to include `login-data.php`.
2. Use a for loop to dynamically output the `<option>` elements, as shown in figure 7.
3. Use an if and else statement to display an 'x' if the `$email` and `$password` variable is empty (see figure 6), otherwise display a tick sign (see figure 7).
4. In order to test this, you should edit the values of the two variables in the `login-data.php` file to see if the logic works.

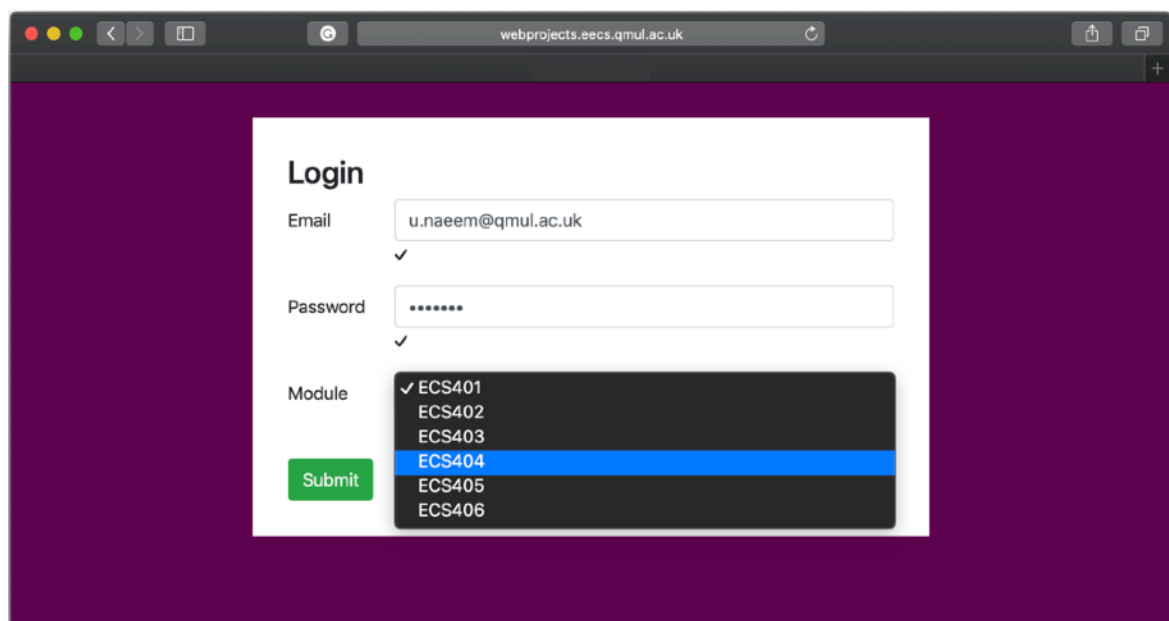


FIGURE 7