Drupal Test

You need to use your desktop/laptop to appear this test. During the test you must keep on your web camera and share your entire screen. Create separate file to answer each question. You need to commit this test on GitHub Public repository and share the repository URL/link with us at hr@augustinfotech.com and cc to technical@augustinfotech.com

Email Subject: Assessment - {Your Full Name}

PREREQUISITES

- XAMPP Apache distribution OR Docker
    - It contains
        - Apache web server
        - PHP
        - MariaDB
        - PhpMyAdmin
- Drupal 9 or 10
- jQuery

STANDARDS

1. Follow Drupal best practice
2. Write Robust Code with comments
3. Must follow Object-Oriented Programming (OOP) concepts

OBJECTIVE

1. Develop Drupal Post Like Module [Marks 10]
    a. This module will add Like button with each Drupal default Article content type
        i. It should appear on front-end article listing and detail page
        ii. It should show number of like counts
        iii. Login is required for Like/Dislike

iv. Admin should able to see Like counts of each article.
v. You do not have to use facebook like button for this functionality.

b. This module must be developed on OOP concepts.

2. Write a PHP program to swap two numbers without using a third variable. [5 marks]
3. Explain overloading and overriding by writing a sample PHP program. [5 marks]
4. Write a JavaScript program to compute the union of two arrays. [2.5 marks]
    a. Sample Data : console.log(union([1, 2, 3], [100, 2, 1, 10]));
    b. Output: [1, 2, 3, 10, 100]
5. Write a JavaScript function to find the unique elements from two arrays. [2.5 marks]
    a. Test Data: console.log(difference([1, 2, 3], [100, 2, 1, 10]));
        i. Output: ["1", "2", "3", "10", "100"]
    b. Test Data: console.log(difference([1, 2, 3, 4, 5], [1, [2], [3, [[4]]],[5,6]]));
        i. Output: ["1", "2", "3", "4", "5", "6"]
    c. Test Data: console.log(difference([1, 2, 3], [100, 2, 1, 10]));
        i. Output: ["1", "2", "3", "10", "100"]
6. Write static HTML which fulfil following requirements. [Marks 10]
    a. Limit number of character input in the textarea and show character count too when typing
    b. Count number of “p” elements from following:

```
<body>
<div>
        <p>Apple</p>
        <p>Orange</p>
        <p>Banana</p>
        <p>Kiwi</p>
        <p>Grapes</p>
        <p>Mango</p>
</div>
</body>
```

    c. Make first word bold of all sentences within element “p”

```
<body>
<div>
        <p>PHP Exercises</p>
        <p>WordPress Exercises</p>
        <p>Drupal Exercises</p>
        <p>Python Exercises</p>
        <p>.NET Exercises</p>
        <p>Laravel Exercises</p>
        <p>ReactJS Exercises</p>
```

```
</div>
</body>
```

d. Delete all child elements of DIV except 1st one.

```
<body>
<div id=”exercises”>
        <p>PHP Exercises</p>
        <p>WordPress Exercises</p>
        <p>Drupal Exercises</p>
        <p>Python Exercises</p>
        <p>.NET Exercises</p>
        <p>Laravel Exercises</p>
        <p>ReactJS Exercises</p>
</div>
</body>
```

7. Write SQL statement [Marks 10]
    a. Write a MySQL query to find those customers with their name and those salesmen with their name and city who lives in the same city.

Sample table: salesman

salesman_id	name	city	commission
5001	James Hoog	New York	0.15
5002	Nail Knite	Paris	0.13
5005	Pit Alex	London	0.11
5006	Mc Lyon	Paris	0.14
5007	Paul Adam	Rome	0.13
5003	Lauson Hen	San Jose	0.12

Sample table: customer

customer_id	cust_name	city	grade	salesman_id
3002	Nick Rimando	New York	100	5001
3007	Brad Davis	New York	200	5001
3005	Graham Zusi	California	200	5002
3008	Julian Green	London	300	5002
3004	Fabian Johnson	Paris	300	5006
3009	Geoff Cameron	Berlin	100	5003
3003	Jozy Altidor	Moscow	200	5007
3001	Brad Guzan	London		5005

Sample table: Orders

ord_no	purch_amt	ord_date	customer_id	salesman_id
70001	150.5	2012-10-05	3005	5002
70009	270.65	2012-09-10	3001	5005
70002	65.26	2012-10-05	3002	5001
70004	110.5	2012-08-17	3009	5003
70007	948.5	2012-09-10	3005	5002
70005	2400.6	2012-07-27	3007	5001
70008	5760	2012-09-10	3002	5001
70010	1983.43	2012-10-10	3004	5006
70003	2480.4	2012-10-10	3009	5003
70012	250.45	2012-06-27	3008	5002
70011	75.29	2012-08-17	3003	5007
70013	3045.6	2012-04-25	3002	5001

b. Write a MySQL query to display all the orders which values are greater than the average order value for October 10, 2012.
c. Write a MySQL query to list the employee ID, name, salary, department name of all the 'MANAGERS' and 'ANALYST' working in SYDNEY, MELBOURNE with an experience more than 5 years without receiving the commission and display the list in ascending order of location.

Sample table: employees

```
 emp_id | emp_name | job_name  | manager_id | hire_date  | salary  | commission | dep_id
--------+----------+-----------+------------+------------+---------+------------+--------
  68319 | KAYLING  | PRESIDENT |            | 1991-11-18 | 6000.00 |            |   1001
  66928 | BLAZE    | MANAGER   |      68319 | 1991-05-01 | 2750.00 |            |   3001
  67832 | CLARE    | MANAGER   |      68319 | 1991-06-09 | 2550.00 |            |   1001
  65646 | JONAS    | MANAGER   |      68319 | 1991-04-02 | 2957.00 |            |   2001
  67858 | SCARLET  | ANALYST   |      65646 | 1997-04-19 | 3100.00 |            |   2001
  69062 | FRANK    | ANALYST   |      65646 | 1991-12-03 | 3100.00 |            |   2001
  63679 | SANDRINE | CLERK     |      69062 | 1990-12-18 |  900.00 |            |   2001
  64989 | ADELYN   | SALESMAN  |      66928 | 1991-02-20 | 1700.00 |     400.00 |   3001
  65271 | WADE     | SALESMAN  |      66928 | 1991-02-22 | 1350.00 |     600.00 |   3001
  66564 | MADDEN   | SALESMAN  |      66928 | 1991-09-28 | 1350.00 |    1500.00 |   3001
  68454 | TUCKER   | SALESMAN  |      66928 | 1991-09-08 | 1600.00 |       0.00 |   3001
  68736 | ADNRES   | CLERK     |      67858 | 1997-05-23 | 1200.00 |            |   2001
  69000 | JULIUS   | CLERK     |      66928 | 1991-12-03 | 1050.00 |            |   3001
  69324 | MARKER   | CLERK     |      67832 | 1992-01-23 | 1400.00 |            |   1001
(14 rows)
```

Sample table: department

```
 dep_id |  dep_name  | dep_location
--------+------------+--------------
   1001 | FINANCE    | SYDNEY
   2001 | AUDIT      | MELBOURNE
   3001 | MARKETING  | PERTH
   4001 | PRODUCTION | BRISBANE
(4 rows)
```

DURATION

This test duration is 2 hours.