

Report

by Josh Benjamin Rowland

FILE	2664_JOSH_BENJAMIN_ROWLAND_REPORT_93283_115311243.DOCX (1.42M)		
TIME SUBMITTED	25-JAN-2018 03:08PM (UTC+0000)	WORD COUNT	1906
SUBMISSION ID	82371909	CHARACTER COUNT	9010

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P145133

Advanced Web

Advanced Web Part 1

Michael Dacey

Part A

Singleton Pattern

The Singleton pattern is used when there is a single object that is used across the system and it should only be used when only one instance of a class is allowed and when the single instance should be allowed to extend with a subclass[1]. The benefits of the Singleton pattern include but are not limited to the following as seen in [1]:

- The strict control it has over and when the client interacts the instance because the Singleton class encapsulates that single instance.
- It is an improvement over global variables as it avoids polluting the namespace with global variables that store a sole instance.
- The Singleton class can be subclassed and is easily configured to an application with an instance of the extended class.

Singletons are very useful however they do have issues and are looked down upon by many people due to their pointless overuse. Singletons are generally used as a global instance that can be used anywhere in the code which is a problem as it hides dependencies. Many people do look down on the Singleton pattern and see it as anti-pattern because it is used unnecessarily which can add restrictions where there is no need for it. There are also other patterns which can be implemented using the Singleton pattern such as the Abstract Factory or Builder patterns[1].

Factory Design Pattern

The Factory pattern is a creational pattern that uses factory methods to deal with the creation of objects without the need to specify the class of the object and is one of the most used patterns because of its advantages as seen in [2]:

- A major advantage of this pattern is that it has loose coupling which allows the objects to be created independently of the class implementation.
- The client can remain unaware of the class that creates an object. It is only necessary to know the interface, methods and parameters that must be passed to create objects.
- It is easy to add classes to the factory without changing the client code.
- This pattern allows the reuse of existing objects, but the client does direct the creation of objects and will always create a new object.

In the Factory pattern the developer will always create at least one interface that is used to create the objects however the subclass decides the class that will be instantiated, and it relies on inheritance rather than instantiation, but it also allows the return of the same instance or subclass instead of an object. A common issue with the factory pattern no matter the language is that it can be complex and messy if there are large number of interfaces and abstraction is

can be easy to lose track of certain aspects of the application which can be overwhelming for those who are new to the programming as it does require a solid understanding of key concepts otherwise it may result in a steep learning curve.



MVC (Model View Controller)

The MVC patterns revolves around three key pieces the model, view and the controller. The models contain and represent the data that the users will be involved with such as a view model that shows the transfer of data between the views and controllers or the domain models which contain the data for a business domain and the operations, transformation and rules that are needed for manipulating the data[3]. To put it simply the purpose of MVC is to separate business logic and presentation also known as the separation of concerns making the code easy to read and keeping things separate and simple as possible[3]. The model represents everything that the application supports and also the operations that can be used to manipulate the data in the model and it is also responsible for preserving the state and consistency of the data[3]. Models don't handle processing request or rendering the UI these are the duty of the views and controllers. The views contain are used for displaying elements of the model to the users and they do not have any awareness or communication the model[3]. Controllers are the bridge that connects the model and views because requests come from the clients and are processed by the controller which then selects the appropriate views and if needed a certain operation to perform on the model[3]. Every part of the MVC is well-defined and self-contained and is known as the separation of concerns as seen by the logic that manipulates data in the model is contained in only the model, the data that is used to display information is kept only in the view and the code that handles requests and input is contained in just the controller so because of this divide between each piece it allows the application to be easily maintained and extend no matter how large the application becomes it will always allow for easy maintenance and improvements[3]. There are both advantages and disadvantages to using the MVC pattern to develop applications, advantages include:

- Fast development – Due to there being separate parts of the MVC one programmer can develop the view while another does the model and another the controller which allows for rapid and parallel development[4].
- Unit testing – It is important to be able to do unit testing, so you can prove the a method works correctly and in MVC you can easily replace the real implementation with a test harness to ensure it works correctly[5].
- Test Driven Development – For this you would write the test case first and then write the code so pass said test which is more time consuming than the unit testing but it allows for better testing which suits the MVC pattern[5].
- Modification – Modifying the code does not effect the whole model because the model does not depend on the views so its easy to edit code without affecting the architecture[4].
- Flexibility with the use of hard coding the HTML the developer is not limited to drag and drop or other restrictions[6].

- Separation of concerns – Keeping the different parts separate allows for the code to be easy to test, read and develop due to its separation of each of the three parts.

Disadvantages of MVC can include:

- Best used with multiple programmers to do each part of the MVC[4].
- There is a large learning curve when the developer is coming from other technologies and isn't used to the way MVC works[6].
- MVC is complex compared to some other methods as it requires numerous files and a lot of testing and code[6].
- Many developers may have to learn HTML code in order to use MVC correctly as it is entirely hard coded with no drag and drop options[6].

These are only some of the advantages and disadvantages of MVC, some of which are debatable as actual advantages and disadvantages of MVC, but regardless of the disadvantages MVC is primarily used because of its ability to separate concerns to make the code simpler and easier to read and maintain the application. In summary MVC is a very useful technology with the advantages outweighing the disadvantages especially for those who are new to web development aspects as it allows for easy understanding and organisation of what they are developing or those who have experience in programming and wish to learn more about web development.

Part B

The website developed is the Party Palace party company which is a private party hosting company with several jobs that the user can pick from and contact them in the event they are interested. The website has PDO features and 'old' code styles as certain feature are easier to read and write without the use of PDO features as it can make the code appear over complicated, complex and disorganised. The database contains the staff and job data that is used for logging in/ registering while the job data is used in the search, editing, inserting and deletion of data.

The home page of the website Party Palace. As seen below it has a simple navigation menu to the main parts of the website. On every page it will say "Hi!" with a unique message to the logged in user with their unique username.

Party Palace

- [Home](#)
- [Login](#)
- [Jobs](#)
- [Contact](#)

Hi!

jturner, how are you today?

[Log out](#)

About The Party Palace!

we are a party business plain and simple! We are here to ensure that your party is a success and stress free!

- [Cookies](#)
- [TOU](#)

The logout webpage that will refresh after three seconds or if it takes longer the user can select to return to the home page.

You are logged out

If this pages does not refresh in a few seconds please click the link below

[Back to home page](#)

Those who are not logged in will see the following home page where they can register or login if they already have an account.

Party Palace

- [Home](#)
- [Login](#)
- [Jobs](#)
- [Contact](#)

Hi!

New? Register an account!

[Register](#) | [Login](#)

About The Party Palace!

we are a party business plain and simple! We are here to ensure that your party is a success and stress free!

- [Cookies](#)
- [TOU](#)

Below you can see the login page where the user will input the username and password that matches the information on the database. The password text box has been set to password and all methods have been set to post in order to ensure some security.

Login | The Party Palace

[Register](#)

- [Home](#)
- [Login](#)
- [Jobs](#)
- [Contact](#)

Hello, please login below:

Username

Password

If the user inputs incorrect data, they will see the following and then after 3 second be sent back to the login screen.

Login Failed, try again

If the user successfully enters the correct details then they will be sent to the follow screen which also redirects them after 3 seconds.

You are logged in

If this pages does not refresh in a few seconds click the link below

[Back to home page](#)

If the staff need to register a new account for a new member of staff the user can go to the register page and input the details as seen below. All inserts on the website are created using PDO.

Party Palace

- [Home](#)
- [Login](#)
- [Jobs](#)
- [Contact](#)

Hi!

jturner, how are you today?

[Log out](#)

Hello, please register below:

Username

Password

First name

Last name

- [Cookies](#)
- [TOU](#)

Once the user has input their registration information they will be directed to the page as seen below and then redirected to the home page after 3 seconds.

The Id of the last inserted record is 6

The Jobs page shows all of the jobs that the company offers as seen below each job can be edited or deleted by pressing the correct button. There is also the insert button which brings the user to the insert page where they can create a new job. The search bar is also show where the user can search for any job. The search is preformed using PDO methods.

The Party Palace

- [Home](#)
- [Login](#)
- [Jobs](#)
- [Contact](#)

Hi Guest, have you considered registering/logging in?

[Register](#) | [Login](#)

Enter search:

1

Festive fun

The Festive fun pack is for those winter days when you just need a good party! Be it a work social or a house party with friends we have got you covered! Enjoy your time while out staff handle all your catering needs! Pack includes: Food and drink Waiting staff Fake snow Decorations

500

2

Frat House

Ever miss those younger days where you could throw a house party without a care in the world? Well here your chance to relive it! Package includes: Food and Drink Bar service Decorations Cleaning up

800

3

Summer Splash

The Summer Splash is your ideal day at the beach hassle free! You and your friends enjoy the day and leave the hard-work to us! We are here to ensure that your party is perfect! Enjoy the sun and heat while we handle the BBQ, drinks and everyone's favorite... the blow up assault course! Package includes: Blow up assault course BBQ Food and drink Staff

850

4

Summer Sizzler

The Summer Sizzler is the party to have if you and your friends want to enjoy the summer days hassle free wherever you may be! We will handle the the BBQ and drink while you and your friends make memories to last forever! Package includes: Staff BBQ Food and drink

500

The below images show the result of searching "f", in doing so will result in all the job names with the letter f in them.

Party Palace

- [Home](#)
- [Login](#)
- [Jobs](#)
- [Contact](#)

Hi Guest, have you considered registering/logging in?

[Register](#) | [Login](#)

Jobs:

Festive fun

The Festive fun pack is for those winter days when you just need a good party! Be it a work social or a house party with friends we have got you covered! Enjoy your time while our staff handle all your catering needs! Pack includes: Food and drink Waiting staff Fake snow Decorations price £500

Frat House

Ever miss those younger days where you could throw a house party without a care in the world? Well here your chance to relive it! Package includes: Food and Drink Bar service Decorations Cleaning up price £800

- [Cookies](#)
- [TOU](#)

The below image shows the insert screen where the user can insert job details and add them to the database. Once submitted the user is directed to a similar screen to that of when a user registers and it is also refreshed after 3 seconds.

Party Palace

- [Home](#)
- [Login](#)
- [Jobs](#)
- [Contact](#)

Hi!

jturner, Welcome to the insert page!

[Log out](#)

Job name:

Job Price:

Job Description:

Package includes:
Staff
alcohol|
cleaning

▲

▼

- [Cookies](#)
- [TOU](#)

When the user wishes to edit job details they must click on the edit button and are sent the screen below with a blank description for them to write in new details.

Job name:

Hot House

Job Description:

Job Price:

400

Submit

If the user wishes to delete a job they only have to press the delete button and the job will be deleted from the database and the page will refresh as seen below.

Before deletion

19

Hot House

Plain and simple house party just leave alcohol and cleaning to us! Package includes: Staff alcohol cleaning

400

Delete

Edit

- [Cookies](#)
- [TOU](#)

After deletion

6

Bonfire Blast

The Bonfire Blast is a one night all out party on November 5th! Enjoy all the fun of your regular bonfire night but better in everyday! Sit back and relax as we handle your food, drink and firework display! Package includes: Food Drink Fireworks Bonfire Staff

1500

Delete

Edit

- [Cookies](#)
- [TOU](#)

There is then the contact page that displays the social media name and email for if any users wish to contact and learn about the different jobs available.

Party Palace

- [Home](#)
- [Login](#)
- [Jobs](#)
- [Contact](#)

Hi!

jturner, contact us!

[Log out](#)

Contact Us!

Follow us on social media @thePartyPalace! or email us to negotiate the job that you want us to do! thePartyPalace@gmail.com

- [Cookies](#)
- [TOU](#)

There are several issues on the site that must be addressed:

- There can be duplicate jobs and staff details
- There is no need to login for users to edit delete and insert information, however it is designed for staff members only to be able to use as an 'internal control' of the website.
- Lack of CSS
- It has a login system as seen above back does not log searches or logins which is a major issue.

Appendix

index.php

```
1  <?php session_start();
2  @$level=$_SESSION["userLevel"];
3  ?>
4  <!doctype html>
5  <html>
6  <head>
7      <meta charset="utf-8">
8      <title>Home | The Party Palace</title>
9  </head>
10 </html>
11 <body>
12 <div id="container">
13 <div id="header">
14 <h1>Party Palace</h1>
15 </div>
16 <div id="nav">
17 <ul class="navBar">
18 <li><a href="index.php">Home</a></li>
19 <li><a href="login.php">Login</a></li>
20 <li><a href="Jobs.php">Jobs</a></li>
21 <li><a href="contact.php">Contact</a></li>
22 </ul>
23 </div>
24 <div id="content">
25 <div class="section1 row">
26 <p class="welcomeMessage"> Hi!<br></p>
27 <div class="row">
28 <div class="col">
29 <div class="row">
30 <div class="col">
31 <div class="row">
32 <div class="col">
33 <div class="row">
34 <div class="col">
35 <div class="row">
36 <div class="col">
37 <div class="row">
38 <div class="col">
39 <div class="row">
40 <div class="col">
41 <div class="row">
42 <div class="col">
43 <div class="row">
44 <div class="col">
45 <div class="row">
46 <div class="col">
47 <div class="row">
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49 <div class="row">
50 <div class="col">
51 <div class="row">
52 <div class="col">
53 <div class="row">
```

```

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77
78
<section id="about" class="row">
    <h2>About The Party Palace!</h2>
    <p>
        we are a party business plain and simple! We are here to ensure that your party is a success and stress free!
    </p>
    <br /> <br />
</section>

<footer id="mainFooter">
<div class="row">
    <nav id="Footmain"></nav>
    <ul class="footBar">
        <li><a href="#">Cookies</a></li>
        <li><a href="TOU.html">TOU</a></li>
    </ul>
</div>
</footer>

</div>
</body>
</html>

```

Jobs.php

```

1
2
3
4
5
6
7
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10
11
12
13
14
15
16
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33
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41
42
43
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46
47
48
49
50
51
52
53
<?php session_start();
@$level=$_SESSION["userlevel1"]:>
<!doctype html>
<head>
    <meta charset="utf-8">
    <title>Jobs | The Party Palace</title>
</head>
<body>
    <div id="container">
        <header>
            <h1>The Party Palace</h1>
        </header>
        <nav class="row">
            <ul class="navBar">
                <li><a href="index.php">Home</a></li>
                <li><a href="login.php">Login</a></li>
                <li><a href="Jobs.php">Jobs</a></li>
                <li><a href="contact.php">Contact</a></li>
            </ul>
        </nav>
        <section class="section1 row">
            <p class="welcomeMessage"> Hi <?php
            if($_SESSION["username"]!="")
            {
                echo $_SESSION["username"];
                echo ", Welcome to the Jobs page!";
            }
            >
            <form action="newdata.php" method="post">
                <input type="submit" value="Insert">
            </form>
            <br><br>
            <?phpif($level==2)
            {
            <?>
            <?>
            <p class="welcomeMessage"><a href="logout.php">Log out</a></p>
            <?php
            }
            else
            {
                echo" Guest, have you considered registering/logging in?";
            }
            >
            <p id="RegLog"><a href="register.php">Register</a> | <a href="login.php">Login</a></p>
            <?php

```

```

54     }
55     ?>
56 </section>
57
58 <form action="searchresult.php" method="post">
59
60 <label>Enter search:</label><br>
61 <input type="text" name="jobsearch"><br><br>
62
63 <input type="submit" value="Submit">
64
65 </form>
66
67 <?php    include "conninfo.php";
68
69 $query="SELECT * FROM jobs";
70
71 $result=mysqli_query($link,$query);
72
73 while($r=mysqli_fetch_array($result))
74 {
75     echo $r["id"]."<br>";
76     echo $r["job_name"]."<br>";
77     echo $r["job_description"]."<br>";
78     echo $r["job_price"]."<br>";?>
79
80 <form action="delete.php" method="post">
81 <input type="hidden" name="theid" value="<?php echo $r["id"];?>">
82 <input type="submit" value="Delete">
83 </form>
84
85 <form action="enteredit.php" method="post">
86 <input type="hidden" name="theid" value="<?php echo $r["id"];?>">
87 <input type="submit" value="Edit">
88 </form>
89 <?php
90 }
91
92 ?>
93
94
95 <footer id="mainFooter">
96 <div class="row">
97 <nav id="Footmain"></nav>
98 <ul class="footBar">
99 <li><a href="#">Cookies</a></li>
100 <li><a href="TOU.html">TOU</a></li>
101 </ul>
102 </div>
103 </footer>
104 </div>
105 </body>
106 </html>

```

Searchresults.php

```

1  <?php session_start();
2  $level=$_SESSION["userlevel"];
3  ?>
4  <!doctype html>
5  <head>
6      <meta charset="utf-8">
7      <title>Results | The Party Palace</title>
8
9
10
11 </head>
12 <body>
13     <div id="container">
14         <header>
15
16             <h1>Party Palace</h1>
17
18         </header>
19         <nav class="row">
20             <ul class="navBar">
21                 <li><a href="index.php">Home</a></li>
22                 <li><a href="login.php">Login</a></li>
23                 <li><a href="Jobs.php">Jobs</a></li>
24                 <li><a href="contact.php">Contact</a></li>
25             </ul>
26         </nav>
27
28         <section class="section1 row">
29             <p class="welcomeMessage"> Hi <?php
30                 if($_SESSION["username"]!="")
31                 {
32                     echo $_SESSION["username"];
33                     echo ", here are your results!";
34                 }
35             ?>
36
37             <br><br>
38             <?php if($level==2)
39             {
40                 <?>
41                 <p class="welcomeMessage"><a href="logout.php">Log out</a></p>
42                 <?php
43             }
44             else
45             {
46                 echo " Guest, have you considered registering/logging in?";
47             }
48             ?>
49             <p id="RegLog"><a href="register.php">Register</a> | <a href="login.php">Login</a></p>
50             <?php
51         }
52         ?>
53     </section>

```

```

54 <h1>Jobs:</h1>
55
56 <?php
57
58 $dsn = 'mysql:host=localhost;dbname=phpassignment';
59 $dbUName = "root";
60 $dbPassword = "";
61
62 $dbh = new PDO($dsn, $dbUName, $dbPassword);
63
64 $searchName = $_POST["jobsearch"];
65
66
67 $stmt = $dbh->prepare("SELECT * FROM jobs
68                        WHERE job_name LIKE ?");
69
70 if($stmt->execute(
71     array(
72         "{$searchName}%",
73     )
74 ))
75 {
76     while($record = $stmt->fetch())
77     {
78         echo $record["job_name"] . " <br> " . $record["job_description"]
79             . "<br> price $" . $record["job_price"] . "<br>";
80     }
81 }
82
83 $stmt->closeCursor();
84
85 $dbh = NULL;
86
87 ?>
88
89 <footer id="mainFooter">
90 <div class="row">
91     <nav id="Footmain"></nav>
92     <ul class="footBar">
93         <li><a href="#">Cookies</a></li>
94         <li><a href="TOU.html">TOU</a></li>
95     </ul>
96 </div>
97 </footer>
98
99
100 </div>
101 </body>
102 </html>

```

Newdata.php

```

1  <?php session_start();
2  @$level=$_SESSION["userlevel"];
3  ?>
4  <!doctype html>
5  <head>
6      <meta charset="utf-8">
7      <title>Insert | The Party Palace</title>
8
9
10
11  </head>
12  <body>
13      <div id="container">
14          <header>
15
16              <h1>Party Palace</h1>
17
18          </header>
19          <nav class="row">
20              <ul class="navBar">
21                  <li><a href="index.php">Home</a></li>
22                  <li><a href="login.php">Login</a></li>
23                  <li><a href="Jobs.php">Jobs</a></li>
24                  <li><a href="contact.php">Contact</a></li>
25              </ul>
26          </nav>
27
28          <section class="section1 row">
29              <p class="welcomeMessage"> Hi!<br></p>
30              <?php
31              if($_SESSION["username"]!="")
32              {
33                  echo $_SESSION["username"];
34                  echo ", Welcome to the insert page!";
35              }
36              <br><br>
37              <?php if($level==2)
38              {
39                  <p class="welcomeMessage"><a href="admin.php">Admin page</a></p>
40                  <?php ?>
41                  <p class="welcomeMessage"><a href="logout.php">Log out</a></p>
42                  <?php
43              }
44              else
45              {
46                  echo " New? Register an account!";
47              }
48              <p id="Reg"><a href="register.php">Register</a> | <a href="login.php">Login</a></p>
49              <?php
50              ?>
51          </section>

```

```

55
56 <section id="create" class="row">
57
58 <form action="writedata.php" method="post">
59 Job name: <br>
60 <input type="text" name="jn"><br>
61 <br>
62 Job Price: <br>
63 <input type="text" name="jp"><br>
64 Job Description: <br>
65 <textarea rows="4" cols="50" name="jd"></textarea><br>
66
67 <input type="submit" value="Submit">
68
69 </form>
70
71
72 </section>
73
74 <footer id="mainFooter">
75 <div class="row">
76     <nav id="Footmain"></nav>
77     <ul class="footBar">
78         <li><a href="#">Cookies</a></li>
79         <li><a href="TOU.html">TOU</a></li>
80     </ul>
81 </div>
82 </footer>
83
84
85 </div>
86 </body>

```

Writedata.php

```

1 <?php
2
3 $dsn = 'mysql:host=localhost;dbname=hrassignment';
4 $dbUsername = "root";
5 $dbPassword = "";
6
7 $dbh = new PDO($dsn, $dbUsername, $dbPassword);
8
9 class SafePDO extends PDO
10 {
11     public static function exception_handler($exception)
12     {
13
14         die('Uncaught exception: ' . $exception->getMessage());
15     }
16
17     public function __construct($dsn,
18                                $username='',
19                                $password='',
20                                $driver_options=array())
21     {
22         set_exception_handler(array(__CLASS__, 'exception_handler'));
23
24         parent::__construct($dsn,
25                             $username,
26                             $password,
27                             $driver_options);
28
29         restore_exception_handler();
30     }
31 }
32
33
34 $jobname=$_POST["jn"];
35 $jobprice=$_POST["jp"];
36 $jobdes=$_POST["jd"];
37
38
39
40 $stmt = $dbh->prepare('INSERT INTO jobs(job_name,job_description,job_price) VALUES(:jobname, :jobdes, :jobprice)');
41 $stmt->bindParam(':jobname',$jobname);
42 $stmt->bindParam(':jobdes',$jobdes);
43 $stmt->bindParam(':jobprice',$jobprice);
44
45 $stmt->execute();
46
47 echo "The Id of the last inserted record is " . $dbh->lastInsertId();
48
49 $stmt->closeCursor();
50 $dbh = NULL;
51
52
53 ?>
54
55 <p>If this pages does not refresh in a few seconds click the link below</p>
56 <a href="index.php">Back to home page</a><br>
57 <?php header( 'Refresh:3; url=Jobs.php' );?>

```

Delete.php

```

1 <?php session_start();
2 include "conninfo.php";
3 $id=$_POST["theid"];
4
5 $query="DELETE FROM jobs WHERE id=$id LIMIT 1";
6 $result=mysqli_query($link,$query);
7 header("location:jobs.php");
8 ?>

```

Enteredit.php

```

1  <?php include "conninfo.php";
2  $id=$_POST["theid"];
3
4  $query="SELECT * FROM jobs WHERE id=$id";
5  $result=mysqli_query($link,$query);
6  $r=mysqli_fetch_array($result);
7  ?>
8
9  <form action="committedit.php" method="post">
10
11  Job name:<br>
12  <input type="text" name="jn" value="<?php echo $r["job_name"];?>">
13  <br>
14  Job Description:<br>
15  <textarea rows="20" cols="50" name="jd" value="<?php echo $r["job_description"];?>"></textarea>
16  <br>
17  Job Price:<br>
18  <input type="text" name="jp" value="<?php echo $r["job_price"];?>">
19  <br>
20  <input type="hidden" name="theid" value="<?php echo $id;?>">
21  <input type="submit" value="Submit">
22
23  </form>

```

Committedit.php

```

1  <?php session_start();
2  include "conninfo.php";
3
4  $jobname=$_POST["jn"];
5  $jobdes=$_POST["jd"];
6  $jobprice=$_POST["jp"];
7  $id=$_POST["theid"];
8
9  $query="UPDATE jobs SET job_name='$jobname',job_description='$jobdes',job_price='$jobprice' WHERE id=$id LIMIT 1";
10
11  $result=mysqli_query($link,$query);
12
13  header("location:showall.php");
14  ?>

```

Login.php

```

1  <!doctype html>
2  <head>
3      <meta charset="utf-8">
4      <title>Login page | The Party Palace</title>
5
6  </head>
7  <body>
8      <div id="container">
9          <header>
10             <h1>Login | The Party Palace</h1>
11             <p id="RegLog"><a href="register.php">Register</a>
12             </header>
13             <nav class="row">
14                 <ul class="navBar">
15                     <li><a href="index.php">Home</a></li>
16                     <li><a href="login.php">Login</a></li>
17                     <li><a href="jobs.php">Jobs</a></li>
18                     <li><a href="contact.php">Contact</a></li>
19                 </ul>
20             </nav>
21
22             <section class="section1">
23                 <p id="loginInfo">Hello, please login below:</p>
24             </section>
25             <section id="loginForm">
26                 <form action="loginprocess.php" method="Post">
27                     <label>Username</label>
28                     <input type="text" name="username"><br /><br />
29                     <label>Password</label>
30                     <input type="password" name="password"><br /><br />
31                     <input type="submit" value="Submit">
32                     <input type="reset" value="Clear">
33                 </form>
34             </section>
35
36             <footer id="mainFooter">
37                 <div class="row">
38                     <nav id="Footmain"></nav>
39                     <ul class="footBar">
40                         <li><a href="#">Cookies</a></li>
41                         <li><a href="TOU.html">TOU</a></li>
42                     </ul>
43                 </div>
44             </footer>
45         </div>
46     </body>
47 </html>

```

loginprocess.php

```

1 <?php session_start();
2 include "conninfo.php";
3
4 $un=$_POST["username"];
5 $pw=$_POST["password"];
6
7 $query="SELECT * FROM staff WHERE username LIKE '$un' AND password LIKE '$pw'";
8 $result=mysqli_query($link,$query);
9 $numRows=mysqli_num_rows($result);
10 if($numRows==1)
11 {
12     $r=mysqli_fetch_array($result);
13     $level=$r["user_level"];
14     $_SESSION["username"]=$un;
15     $_SESSION["user_level"]=$level;
16
17     ?>
18     <h1>You are logged in</h1>
19     <p>If this pages does not refresh in a few seconds click the link below</p>
20     <a href="index.php">Back to home page</a><br>
21     <?php header( 'Refresh:3; url=index.php' );?>
22     <?php
23 }
24 else
25 {
26     echo "Login Failed, try again";
27     header( 'Refresh:3; url=login.php' );
28 }
29 ?>

```

Logout.php

```

1 <?php session_start();
2 $_SESSION["username"]="";
3
4 session_destroy();
5 header( 'Refresh:3; url=index.php' );
6 ?>
7 <html>
8 <h1>You are logged out</h1>
9 <p>If this pages does not refresh in a few seconds please click the link below</p><br><br>
10 <a href="index.php">Back to home page</a>
11 </html>

```

Register.php

```

1  <?php session_start();
2  @$level=$_SESSION["userlevel"];
3  ??
4  <!doctype html>
5  <head>
6  <meta charset="utf-8">
7  <title>Register | The Party Palace</title>
8
9
10
11 </head>
12 <body>
13 <div id="container">
14 <header>
15 <h1>Party Palace</h1>
16
17 </header>
18 <nav class="row">
19 <ul class="navBar">
20 <li><a href="index.php">Home</a></li>
21 <li><a href="login.php">Login</a></li>
22 <li><a href="Jobs.php">Jobs</a></li>
23 <li><a href="contact.php">Contact</a></li>
24 </ul>
25 </nav>
26
27 <section class="section1 row">
28 <p class="welcomeMessage"> Hi!<br></p>
29 <?php
30 if($_SESSION["username"]!="")
31 {
32     echo $_SESSION["username"];
33     echo ", how are you today?";
34 }
35 <br><br>
36 <?php if($level==2)
37 {
38     <p class="welcomeMessage"><a href="logout.php">Log out</a></p>
39 }
40 <?php
41 {
42     echo " New? Register an account!";
43 }
44 <p id="Reg"><a href="register.php">Register</a> | <a href="login.php">Login</a></p>
45 <?php
46 }
47 <?php
48 </section>
49
50
51
52
53

```

```

54
55 <section class="section1">
56 <p id="loginInfo">Hello, please register below:</p>
57 </section>
58 <section id="loginForm">
59 <form action="registration.php" method="Post">
60 <label>Username</label>
61 <input type="text" name="username"><br /><br />
62 <label>Password</label>
63 <input type="password" name="password"><br /><br />
64 <label>First name</label>
65 <input type="text" name="fn"><br /><br />
66 <label>Last name</label>
67 <input type="text" name="ln"><br /><br />
68
69 <input type="submit" value="Submit">
70
71 </form>
72 </section>
73
74 <footer id="mainFooter">
75 <div class="row">
76 <nav id="Footmain"></nav>
77 <ul class="footBar">
78 <li><a href="#">Cookies</a></li>
79 <li><a href="TOU.html">TOU</a></li>
80 </ul>
81 </div>
82 </footer>
83
84
85 </div>
86 </body>
87 </html>

```

Registration.php

```

1 <?php
2
3 $dsn = 'mysql:host=localhost;dbname=phpassignment';
4 $dbUsername = "root";
5 $dbPassword = "";
6
7 $dbh = new SafePDO($dsn, $dbUsername, $dbPassword);
8
9 class SafePDO extends PDO
10 {
11     public static function exception_handler($exception)
12     {
13         die('Uncaught exception: ' . $exception->getMessage());
14     }
15
16     public function __construct($dsn,
17                               $username='',
18                               $password='',
19                               $driver_options=array())
20     {
21         set_exception_handler(array(__CLASS__, 'exception_handler'));
22
23         parent::__construct($dsn,
24                             $username,
25                             $password,
26                             $driver_options);
27
28         restore_exception_handler();
29     }
30 }
31
32 $username=$_POST["username"];
33 $password=$_POST["password"];
34 $fname=$_POST["fn"];
35 $lname=$_POST["ln"];
36
37 $stmt = $dbh->prepare('INSERT INTO staff($username,$password,$fname,$lname) VALUES(:username, :password, :fname, :lname)');
38 $stmt->bindParam(':username',$username);
39 $stmt->bindParam(':password',$password);
40 $stmt->bindParam(':fname',$fname);
41 $stmt->bindParam(':lname',$lname);
42
43 $stmt->execute();
44
45 echo "The Id of the last inserted record is " . $dbh->lastInsertId();
46
47 $stmt->closeCursor();
48 $dbh = NULL;
49
50 ?>

```

Conninfo.php

```

1 <?php
2 $strServer="localhost";
3 $strUser="root";
4 $strPassword="";
5 $strDatabase="phpassignment";
6
7 $link=mysqli_connect($strServer,$strUser,$strPassword,$strDatabase);
8
9 ?>

```

Contact.php

```

1  <?php session_start();
2  @$level=$_SESSION["userlevel"];
3  ?>
4  <!doctype html>
5  <head>
6      <meta charset="utf-8">
7      <title>Contact | The Party Palace</title>
8
9
10
11  </head>
12  <body>
13      <div id="container">
14          <header>
15
16              <h1>Party Palace</h1>
17
18          </header>
19          <nav class="row">
20              <ul class="navBar">
21                  <li><a href="index.php">Home</a></li>
22                  <li><a href="login.php">Login</a></li>
23                  <li><a href="Jobs.php">Jobs</a></li>
24                  <li><a href="contact.php">Contact</a></li>
25              </ul>
26          </nav>
27
28          <section class="section1 row">
29              <p class="welcomeMessage"> Hi!<br></p>
30
31              <?php
32                  if(@$_SESSION["username"]!="")
33                  {
34                      echo $_SESSION["username"];
35                      echo ", contact us!";
36                  }
37              <br><br>
38              <?php if($level==2)
39              {
40                  <?php ?>
41                  <p class="welcomeMessage"><a href="logout.php">Log out</a></p>
42                  <?php
43
44                  }
45              else
46              {
47                  echo " New? Register an account!";
48              }
49              <p id="Reg"><a href="register.php">Register</a> | <a href="login.php">Login</a></p>
50              <?php
51              }
52              <?php
53          </section>

```

```
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<section id="about" class="row">

    <h2>Contact Us!</h2>
    <p>
        Follow us on social media @thePartyPalace!

        or email us to negotiate the job that you want us to do!

        thePartyPalace@gmail.com
    </p>    <br /> <br />

</section>

<footer id="mainFooter">
<div class="row">
    <nav id="Footmain"></nav>
    <ul class="footBar">
        <li><a href="#">Cookies</a></li>
        <li><a href="TOU.html">TOU</a></li>
    </ul>
</div>
</footer>

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

Report

GRADEMARK REPORT

FINAL GRADE

47 / 100

GENERAL COMMENTS

Instructor

Investigation of design patterns (30) : 17

Investigation of MVC (20): 17

Quality of website and techniques used (30): 10

Login system (Observer pattern) (15): 0

Software testing (5): 3

Design pattern discussion required code examples.

Very nice discussion and evaluation of MVC.

The code provided doesn't use the OOPs techniques expected, nor does it demonstrate the use of the observer pattern.

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Comment 1

Example code for patterns is missing

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