

report

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FILE	11138_KELECHI_MICHEAL_JACOBS_REPORT_151144_1383253233.DOCX (2.97M)		
TIME SUBMITTED	11-MAY-2016 01:41PM	WORD COUNT	1827
SUBMISSION ID	57677263	CHARACTER COUNT	12643

Report Writing for web development

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What Is PHP?

PHP originally known as (personal home page) is a type of scripting hypertext language in web development that can be used in creating a website. It is one of the most important tools for web designing, and a lot of features such as forms, tables, saving of records and creating of records etc. can be done using PHP.

Moreover, PHP files or scripts can be edited on a HTML script and file, but it has to be saved and sometimes ran via PHP.

The PHP tags are;

- `<?PHP:` this is the opening tags which allows a PHP files to run on any type of PHP allocated file either through a HTML scripted code or a Hypertext.
- `?>:` this is the closing Tags which finalises the finishing of the PHP file or edited data.

PHP frameworks:

PHP frameworks are PHP codes or libraries which gives a web developers and opportunity to provide web pages with structures and meaningful links. The PHP hyperlink script aligns a design for the developer using the basic platforms. Also they are 13 PHP frameworks, which are;

- Zend framework2.
- Laravel.
- Codeigniter.
- CakePHP.
- Phalcon.
- Symfony.
- Yii.
- Aura.
- Fat Free.
- PHP MVC (Modern View Control).
- Kohana.
- Fuel PHP.
- Slim.

Briefly, I would be discussing about the components that each frameworks, how they give allowance to a web developer for a different design and platforms.

Zend Framework 2:

The Zend framework 2 is an open oriented code which gives access to a web developer to create web applications. This framework offers an extensible link to the MVC implementation form the extended libraries and by using this framework with defaults commands such as classes; it provides high performances and meeting to needs for the codes are very well tested.

Symphony:

One main benefits of the symphony PHP framework for a web designer or developer, it generates a speed up for the creations and maintenance for every platform of the web applications. The symphony framework uses a full-stack address making it more flexible and easy to use. Most coding are usually written with the help of configuration files, and this files can be translates in YAML, PHP and XML depending on the purpose. The symphony framework is very efficient in stability and maintenance on any web application being created. It possesses a good library which allows the use of authorisations, making of forms and validations in your web application.

Codes ignite:

Code igniter is recognisable one of the most useful and strong type of PHP framework for creating webs. It was initialized in the year 2006, and it was designed to be flexible and light weighted for the purpose of offering a simpler solutions to difficult requirements of a simple and small web application. Moreover, the code igniter is highly pointed out because of the action of great performance and fast learning curves. The library of a code igniter is vastly high and used for logical and structural purposes but it does not contain an authorisation.

Cake PHP:

The cake PHP is however another type of useful framework which uses the MIT license just as symphony frameworks, which is also used to create websites quicker and faster. To have a larger library which consist of the helper class and can be used for multiple options for the web application. It is less complicated to create platforms such as;

- Databases.
- Validations.
- Access
- Caching.

Although the Cake PHP is quite assuring to implement or use, they are quite a bit of performances concern on the cakePHP which can be a drawback.

Aura:

The Aura framework is being deployed mostly on the PHP 5.4 where two duplicated set of libraries are being created which are independent libraries, and they can be used on working on any platforms of database. The characteristics of the aura are;

- It contains a few array syntaxes.
- An unknown function.
- Late static binding.

Moreover these features were not present on the previous versions of the Hyperlink PHP file.

Introduction:

This project work is about creating a website application and verification of the testing format. And this introduction will briefly discuss the website I have developed, formats and coding, the purpose of the website in the real time world and Testing. I developed a website application titled "Voyage Travels". This is a travel or holiday type of website that allows clients to select a location for a holiday trip and giving the opportunity to login and sign up. The website Voyage is a combination of a PHP file which allows the connection from the website view to connect to the database and the HTML file used to create the designs. Various coding was generated for different purposes for the website and also linking of the images from the database to my HTML files.

Testing:

This part of my report will be talking about the tested implementation on my website, and I will be illustrating most pages on the websites, what forms of code were used and the results to the coding.

Components to testing:

- **Index File:**

The index file which is the homepage view is the most important page of the Voyage website which consists of most valuable information and linking to other pages making it look much more organised and professional. Images will be updated on the appendix.

- **Links and tags:**

This explains the links and tags that have been used on the html code, for linking of other pages and locations for the website. Allowing multiple opening of file pages, for example; `<li><a href="login.html"><span> </span> Admin Login</a></li>` this code was used on my index form of my website. Images will be updated on the appendix.

- **The CSS classes:**

This is the connection of the CSS styles and class and linking them from the styles coding to my html files. One possible way of doing that is by assigning the Class command on the html file and linking it from the style folder. For example; `"<div class="header">`". The main purpose of the CSS classes and style is to design the platforms and edit the images. Images will be updated on the appendix.

- **Images Tags:**

The image tags are basically used to edit and update the images to give the required width, height and location or sources of where the images concluded taken from and used for that particular purpose. Here is an example of the image tags; "``".

- **The forms:**

The forms coding can be used to create textboxes, buttons, radio buttons and date and time text field boxes. Usually begins with a form tag "`<form method="POST" action="signup.PHP">`". The tags show the method and where the form will be connected too. Moreover, the forms are usually saved on the database with the fields being labelled accordingly and accurately. Images will be available on appendix.

- **Database:**

The database is where data are being stored and saved so as they can be retrieved and used for specific purposes. The database which I used was created by using a database software application called XAMP, which is a combination of MySQL server and Apache. In my website application, I used MyPHP admin log on to create the data base and input the data fields required on my website for either signing up as a new client or signing in as an existing clients, and to retrieve destinations and descriptions. Images will be shown on my appendix.

- **PHP coding:**

The PHP hypertext codes are the sets of codes that were used for different purposes on my web application. Implementations such as connecting to the database, saving of input data from the form file (HTML) to the database and also the destination design and views with the description, price and locations.

- **References and hyperlinks:**

This is a tag that creates referencing links for a different page, refereeing to another page or location. It has a linking command, i.e. "`<a href="`". I have used this implementation on my code and to link buttons such as submit, logos and pictures.

Testing:

This section explains about the overall testing for my web development and it will be a step by step evaluation.

Login and sign up:

The sign up form has been designed for the customers to actually filling in the blank textboxes with accurate details for the fields contain validation codes and submit. Also these details are then saved to the database where the information will be allocated, using the email address and password that correspond to the data on the database when logging in, because the email was indicated as the primary key to login in.

Destination:

The destination has been designed with the help of the PHP files which was inserted in an HTML file allowing the database to allocate the images which was inserted in the database linking the destinations and other attributes involved.

Evaluation:

After creating the web application which is believed to be used to consult travel and holiday packs, in the nearest future, I would like to re-edit the web application which I have worked on improve on the transformation to a professional web application. Moreover, some components which I have reviewed will be added for the real word application, for examples are;

- A data base containing all fields and section.
- More improved destination across various continents.
- Creating a well organised admin with good communication with the clients and customers.
- Learn more about copyrights and include that at in my website.

Conclusion:

In conclusion, the report evaluates the website which I have developed; discussing the testing and the materials were used for the progress of the website.

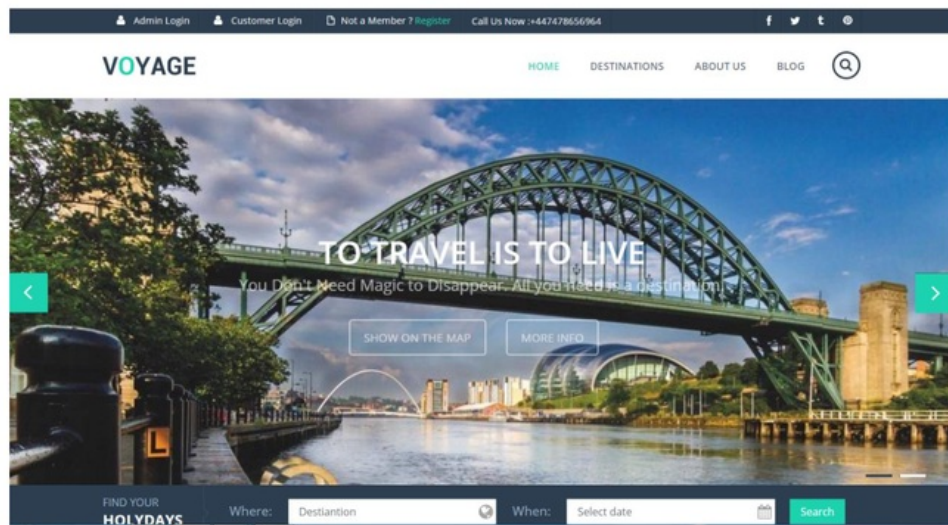
Moreover, I also talked about the evaluation my project and explaining the possibility of much more improvement for the website to a professional standard, and also consideration and abiding to the BCS codes of conduct by having a copy right.

Lastly, I talked about and explained a very important hypertext file PHP and listed out the 13 types of frameworks.

References:

1. "13 PHP Frameworks to Help Build Agile Applications", available:
<http://mashable.com/2014/04/04/PHP-frameworks-build-applications/#iuCflhGF.Gq6>
2. "PHP Frameworks Explained", available:
<http://www.killerPHP.com/articles/PHP-frameworks-explained/>
3. "Free PHP Tutorials" available: <http://www.homeandlearn.co.uk/PHP/PHP1p1.html>

Appendices:



This is the homepage screenshot of the website.

Please Sign Up here

First name:

Last name:

Email:

Password:

Confirm Password:

Contact:

Date of Birth:

Gender:

Male ☐ Female ☐ Others ☐

House Number:

Address line:

Country:

This Register form view, showing the textboxes is linked to the database.



AFR1201
Cape Town, South Africa.
\$799.00
The bed rock of Africa where your money spent provides good services.
VAT+ included.



AFR1202
Johannesburg, South Africa.
\$599.00
A very beautiful city, filled with tourism tour sites and experiences.
VAT+ included.



AFR1203
Kenya, South Africa.
\$799.00
Been located where the highest mountain in Africa, offers good safari Views.
VAT+ included.

This Is the destinations which was saved via PHP file and data collected from the database.

```

        new VueSearch( document.getElementById( "so-search" ) );
    </script>
    <!--//search-scripts-->

</div>
<!-- //End-top-nav-->

<div class="clear"> </div>
</div>
<!--//End-header-->
</div>
</body>
</html>

<?php

$servername = "localhost";
$username = "root";
$password = "";
$dbname = "holiday";

// Create connection
$conn = mysqli_connect($servername, $username, $password, $dbname);
// Check connection
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}

$sql = "SELECT code, place, Price, Availability, picture, description, vat from destination";
$result=mysqli_query($conn, $sql);
echo "<table><tr>";
$a=1;
if($result->num_rows>1)
{
    while($row=$result->fetch_assoc())
    {
        $f=$row["picture"];
        if($a<=3){
            echo "<td><div style='width:420px; padding:1px; text-weight:bold; border:1px solid black; margin:1px; display: inline-block; text-align: center; vertical-align: top; height: 150px; position: relative; background: url($f) no-repeat center center; background-size: 100% 100%;'>";
        }
    }
}

```

This is the Codes which the PHP file is inserted to the HTML file.

report

GRADEMARK REPORT

FINAL GRADE

GENERAL COMMENTS

Instructor

41 /100

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PAGE 7



Comment 1
session

PAGE 8

PAGE 9

GRADING FORM: ACCC5004_WED_A2

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41

CRITERION 1 (25%)

Research-informed Literature: Marks will be awarded based on the quality of the research informed work documented in the Research section of the submitted report.



Have discussed some of the pros and cons of existing frameworks.

13

CRITERION 2 (30%)

Knowledge and Understanding of Subject: Response to questioning during demonstration session



Able to answer questions. But many technical components are still to be implemented fully.

11

CRITERION 3 (10%)

Analysis Marks awarded for Analysis will be based on the quality of the documented Testing section of the Portfolio report.



The components of testing is listed clearly. But the actual screenshots are not provided at the testing section, but two are in appendix and the code is also in the appendix section.

3

CRITERION 4 (10%)

Skills for Professional Practice: Skills for Professional Practice will be assessed based on the written and presentational quality of the Portfolio report.



The formatting of the document is not very professional. The screenshots supposed to be in testing section are actually in appendix section. Screenshots for all pages are not in appendix as

4

expected in the question.

CRITERION 5 (25%)

Practical Application and Deployment Marks awarded based on the evaluation section in the portfolio report



Haven't discussed about payment process for booking. Security features such as password encryption should also be considered in future.

10

DISCLAIMER

Results are provisional until confirmed by the Examination Board. The mark in this Feedback is given out of 100. However, Late Submissions and RESIT students will have their marks capped in their Final Result Letter, as according to the University's regulations in place