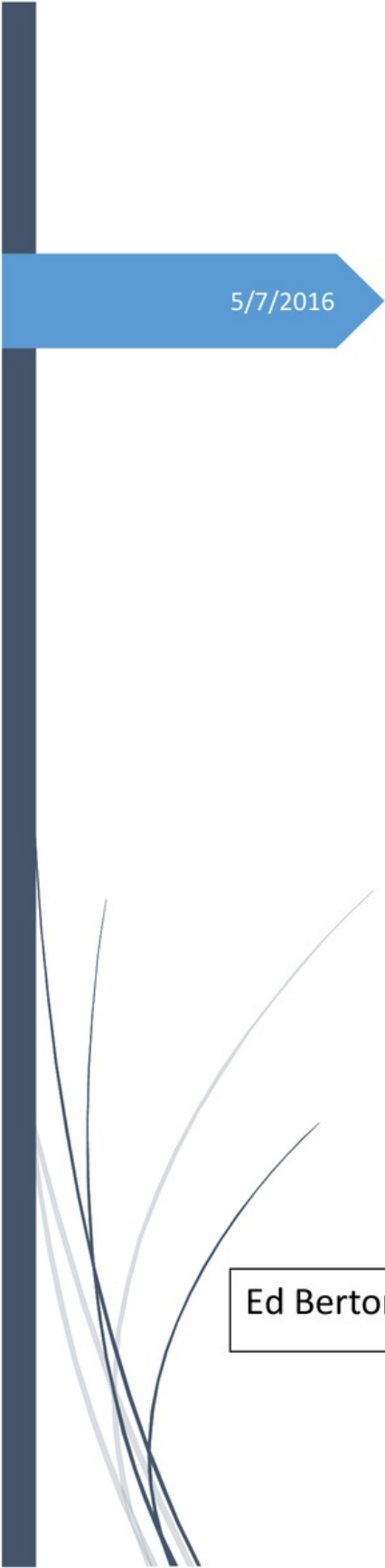


Web Development website

by FABIEN BERTRAND EDOGUE

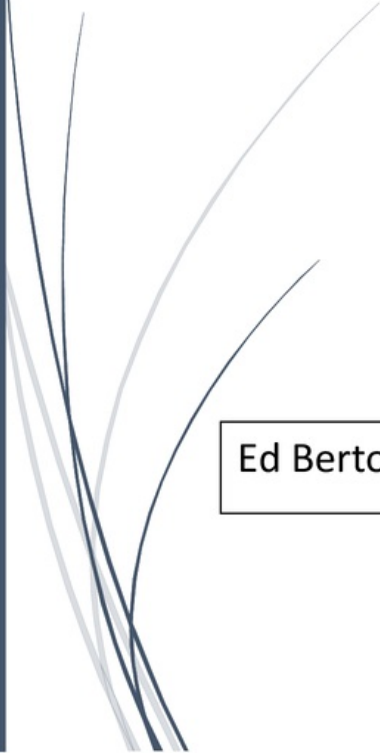
FILE	16248_FABIEN_BERTRAND_EDOGUE_WEB_DEVELOPMENT_WEBSITE_151144_375886946.DOCX (3.47M)		
TIME SUBMITTED	11-MAY-2016 03:52AM	WORD COUNT	2068
SUBMISSION ID	57649804	CHARACTER COUNT	14717

A thick dark blue vertical bar runs down the left side of the page. A blue arrow points to the right from this bar, containing the date 5/7/2016.

5/7/2016

Cloud Computing

Web Development

Several thin, light blue curved lines sweep upwards from the bottom left towards the center of the page.

Ed Bertony online Liquor Sales

1404049

FABIEN BERTRAND EDOGUE

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- Introduction:

This report is divided into two major sections namely; research section base on some PHP development frameworks and website implementation with its functions. On the research section critical analysis on each programming framework provided.

Ed Bertony is a liquor online selling company with several warehouses around the United Kingdom. The website application is developed with the aim of maintaining customers and business data. Another function of the web is for customers to be able to order products and receive the products after processing the payment transaction online.

- Research Section

To build a web application several lines of codes are required and as such developers will spend longer hours developing codes which are not free from errors. To mitigate these errors, frameworks/models are developed. PHP Framework is renown for it been highest widely use server side scripting language in the world. During the development process several factors accounts for the success of the developed application.

- Security at the lower level of a website as the development tool use resolve the issue, provision of recycle, structure and organized codes.
- Easy expansion of the web application due to their scalability.
- Accelerate the development process of the web application.
- Separating the presentation and logic level is specified by the Model-View-Controller.
- Finally the promotion of object-oriented programing tools as recent practices introduced in web development.

They are several PHP programming models/frameworks nowadays but the report will be limited to some of these frameworks, brief explanation and some critical analysis on these products [3].

- **Code Igniter:**

This framework is among the best PHP documented frameworks (a tool use to develop web applications). It Contracts lengthy code lines into less exhaustive task when building web applications. In this model the absence of separating codes in the programming structure renders it difficult for the modification and maintenance of web applications developed using this framework. This tool contains some features such as automatic security (that is data inserted is automatically deleted) and simple accession of data. It is limited as it only PHP based and also due to its irregularity in release [4].

- **Zephyr Framework:**

Only compatible with PHP 5, Zephyr is an AJAX (Asynchronous JavaScript and Extensible Markup Language-XML) programming model use for the development of web applications. This programming model is mostly suitable for business application as it separate business layer from presentation layer. All the features of smarty template (Zephyr's template engine) are used in the zephyr framework. The limitations of zephyr are based on its singularity (AJAX model only) and the specificity that is only functional for PHP5 [5].

- **Tigermouse framework:**

This is another PHP programming model using the Ajax technology in building web applications highly dynamic and responsive. This framework enables the developer to focus more on the logic of the coding as it is JavaScript free coding (no JavaScript coding required). Some criteria are to be fulfilled for model to be ready for industrial usage; server-side business processing, data source independent, MVC architecture compliant. Also mainly suitable in large scale application in developing business application tools such as accounting, stock management and logistic as such it becomes less efficient for the production of other web applications [6].

- **PHP Peanuts:**

Rapid prototyping is supported in this open source programming model aimed at the development of database-backed applications. In this method, the developer does not have to build the application from scratch but just provides some settings such as table names in database, properties and relationships. Also risk reduction and adapted components features are supported on this framework. PHP peanut as the previous explained frameworks is also a light weight but differs in its consideration of the future step of web development. It supports both versions 4 and 5 [7]. As some frameworks also encounter the issue of irregularity in release as the first version was released in 2004.

- **CakePHP Model:**

The simplicity of this model makes it easy for developers to use it as no major setting is required to start the web application development. Also some functions required such as authentication feature, database access, Validation, caching and Translation are built-in. Prototyping is implemented in this model through generic codes and web platforms. Moreover, integrated set of instructions available for developer's guidance when developing application. This framework is heavier (Bulky) compared to other programming framework and set to be one of the slowest Programming model. Examples of companies and institutions using cakephp are Massachusetts Institute of Technology (MIT), Sainsbury, Hyundai, Calzedonia and Billabong which demonstrate the popularity of CakePHP.

- **Core enterprise PHP:**

This is an enterprise application that extends to PHP extension and application repository. It is used to speed up the production and modulation of web application in a comprehensible way [8]. As in also all the frameworks they share also one similar issue which is irregularity in release and version compatibility.

- **Konstrukt Framework:**

This framework is based mainly on the transfer of web applications by routing data based on logic rather than following the routing process. This is done by limiting the controllers access only to the layer and enabling programmers to handle all the process in the model [10].

As there are several PHP programming frameworks businesses vary and with the future expansion of the web in future increase in the number of businesses thereby increasing the burden of code development thereby requirement in increase in developer's development

time. With frameworks codes are generated by tools kits and developers just apply them according to the projects requirement. From the various models cited above, each framework serves a specific purpose but almost faces the same issue that is irregularity in release and complexity of code maintenance. Also PHP is not strongly typed compare to Python.

- Implementation

The website contains several web pages developed in Hypertext Markup Language (HTML) to display the page accompanied with Personal Home Page (PHP) a server-side scripting language to access the database for storing during registration and insertion of data by administrator sessions or retrieve data during the login sessions [1]. Also due to the shortage in time for the production of the website prototype an adapted. Some of the pages will be explain below from implementation to functioning.

- Home Page (or Index.html)

This is the main page of the website with several links to the other sub pages. This page contains some of the important information of the company that is advertisement of some products sold, activities performed by the company (Appendix 1). The links present in this page are represents the several functions perform by the website with each link serving a specific.

- **Product link**

This link is a Html page located on the top of the home page connected to the database through a PHP code with the aim of displaying the variety of liquors available for sale (Appendix 2). This link is connected to three files namely card file, with the PHP code accompanying the file and a html file use to display the products on the product page. Selecting any of the products displayed redirects the user to the card page.

- **Card page**

This is the page accessed through the selection of a product from the product page. It is connected to the database and information collected in this page is stored in the purchase table (appendix 3). This page serves as a payment processing link as name, address, card number and town are collected necessary to process the payment with delivery at the address provided.

- **Forum Link**

This link gives access to the comments and feedback page. The page is a public free chat forum on products and services offered by Ed Bertony. At this page the user might also drop a comment with contact details and one of the administrators shall reply. The number of comments and messages exchange is unlimited that is as much as possible. On selecting any of the topics of the proposed on the forum further leads the user to the single Page (Appendix 4).

- **Login and Register Link**

This link is a login link where already existing and registered customer can be identified and offer advantages different from non-registered customers. Such advantages

might be reduction of percentage in customer purchases and emailing customers in case of product breakage in price. On the interface of this link, a register link is available below the submit button of the signup form aim at registering new customers. This page is accompanied of a PHP code aim at inserting the collected data into the database for use during login sessions.

- **Contact Link**

Contact is a page that displays the company's contact details also provided with fields for customers to request information from the company and gets response directly in their mailbox. Also a map and address are made available for customers to easily locate any of the company's warehouse for in store collection of purchased products. (Appendix 6).

- **About**

This page is detailing the history and motivation of the company within its years of existence to produce high quality products. Also some advantages customer gain when choosing to purchase and consume our product. Finally, at the bottom is displayed some high staff members of the company with their positions and duty in the company (Appendix 7).

- **Testing**

From the appendices provided below the testing was done and some bugs found and repair. When registering, the user is redirected to the login page. From Appendix 8 customers are inserted in the database and also the structure of the database is shown as wine-website.

The testing was done in two phases; first personal testing was done and then a demo testing was done in class. During the class demo a copy of the non updated file was use and some bugs were discovered but already repaired in the updated version.



- **Evaluation**

During the testing some features were found dysfunctional and repaired. To successfully deploy the product features such as add to cart and some session features shall be introduce accompanied of the labeling of the product on the customer interface while a navigation button will be introduce on the image field of the insert product admin interface. For the upcoming months updates will be perform on the home page by inserting the age verification of the customer before proceeding to the website. Due to the shortage in time for the production of the website a moderate prototype of the website was produce and some features left out.

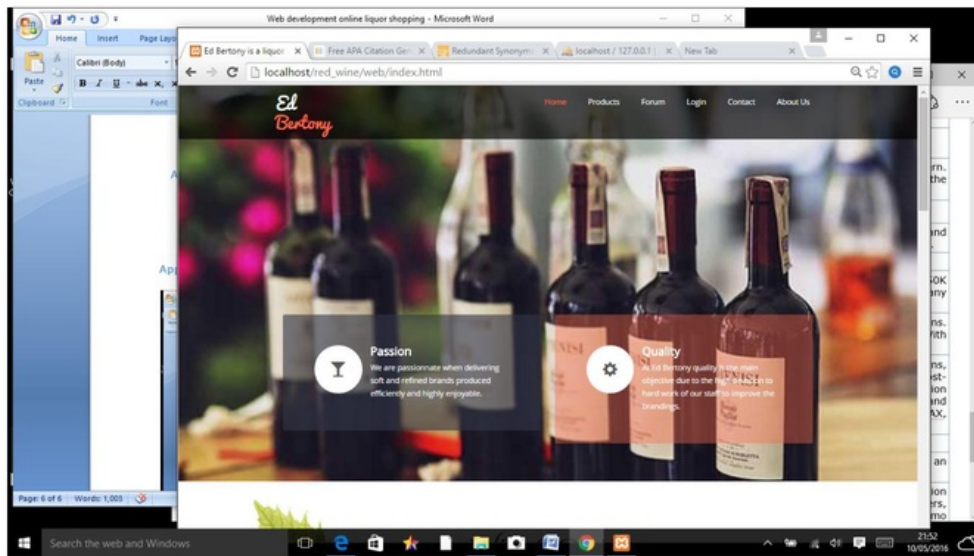
To conclude, the web application developed is less effective for large business as the time required to conclude the task was less. In order to deploy the website to the public some adjustments are to be made on each page and corresponding PHP code updated.

- References

- [1] - R. Lerdorf, K. Tatroe, P. Macintyre, B. Kaehms, and R. McGredy, *Programming PHP*. United States: O'Reilly Media, Inc, USA, 2006.
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- Appendix

Appendix 1

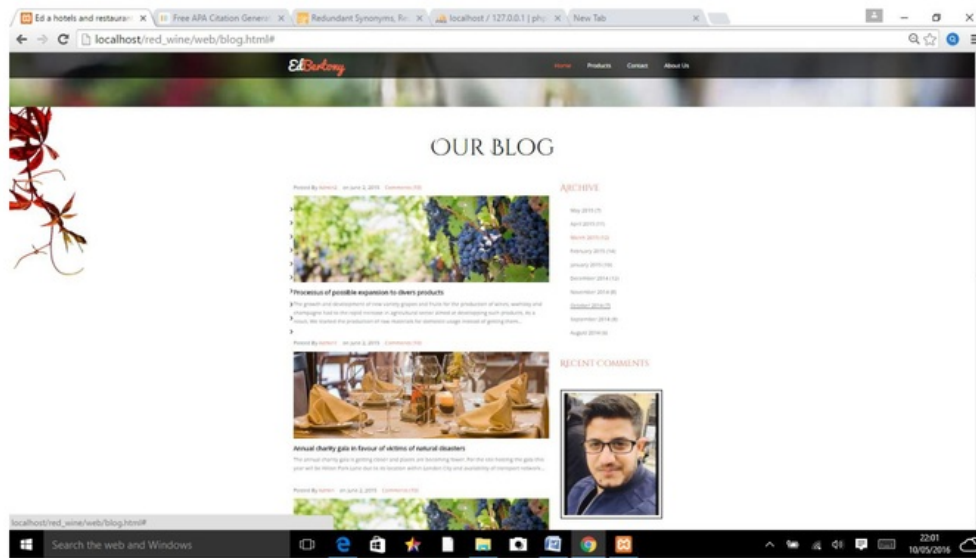


click the product below to proceed to checkout

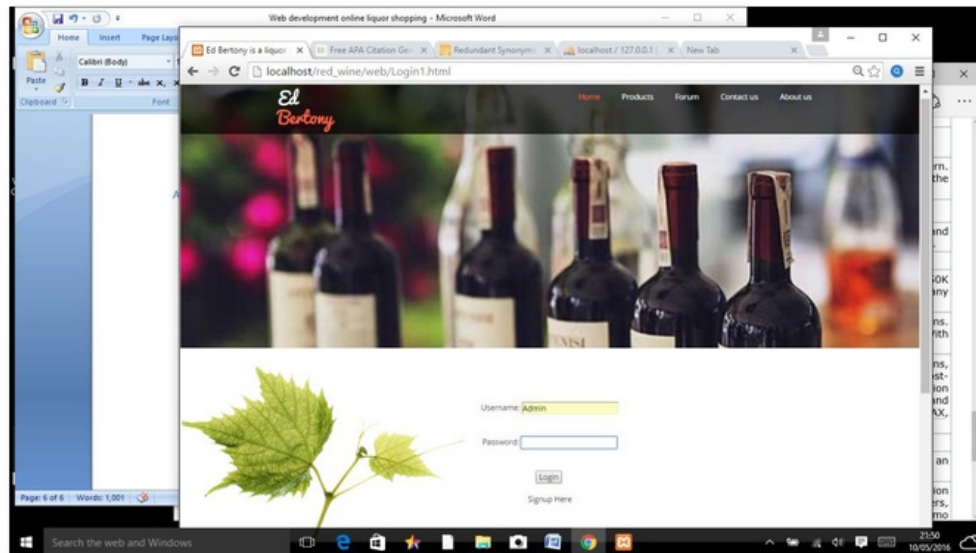
J&B Whisky £24 One of the best Scottish whiskeys. Blended and bottled in Scotland.	Jack Daniel's Tennessee Whisky £21.95 A high quality blend whisky from Jack Daniel 1846-1911 with exceptional taste	Mort & Chandon Rose Imperial £60.35 Champagne of greater quality from France renowned for its aroma.
Chateau de grotte quality from France £60.35 One of our finest scotch blended in the early 20th century with smooth taste of ripe, honeyed apples.	Ballantine's 21 years old whisky £180 A refined and elegant blend with sparkling golden colour. Floral and aromatic palate	Speyside Single Malt scotch whisky £23.11 Whisky from Scotland with lightest and sweet single malt.
Torres Mas Rabell White Catalunya 2012 £60.27 Mas Rabell wine produce exclusively in catalunya spain for over 300 years of experience offer to the public.		

click the product below to proceed to checkout

Appendix 4



Appendix 5A



Appendix 5B

Ed Bertony is a liquor con... Free APA Citation Gener... Redundant Synonyms, R... localhost / 127.0.0.1 | ph... New Tab

localhost/red_wine/web/register1.html

Home Products Forum Contact About Us



First Name

Last Name

User Name

admin/yyyy

Email Address

Postcode

Password

Signup with Ed Bertony | Login Here

Search the web and Windows

22:05 10/05/2016

Appendix 6

Ed Bertony is a liquor con... Free APA Citation Gener... Redundant Synonyms, R... localhost / 127.0.0.1 | ph... New Tab

localhost/red_wine/web/contact.html

CONTACT

How to find us:



Address: 75 Burgh Road, London, London.

Phone: +44 121 454 1848
+44 121 454 1821

Email: contact@edbertony.co.uk

Miscellaneous Information:

We are located in south-east London close to main roads going to the main highways. We also have online parking spaces the entire length of our online shop as London driving can be a pain in the back. Also this is convenient as the space provided below is just 10 mins from the main road. We are open on the 10th and 11th.

Contact Form:

Name Email Telephone

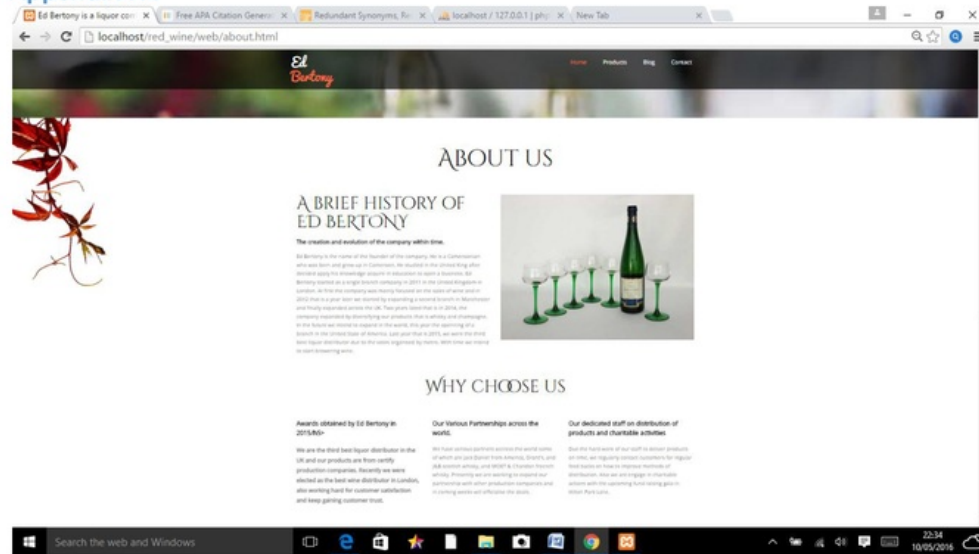
Message

Submit

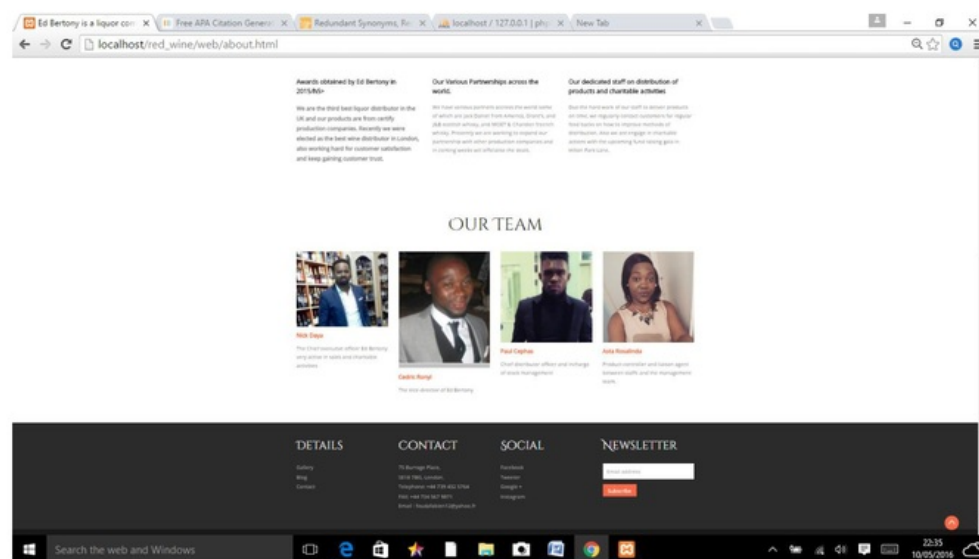
Search the web and Windows

22:25 10/05/2016

Appendix 7A



Appendix 7B



Appendix 8

The screenshot displays the phpMyAdmin web interface in a browser window. The address bar shows the URL: `localhost/phpmyadmin/sql.php?server=1&db=winewebsite&table=customer&pos=0&token=43e3d970a15c46a697ce096Cb18b9526`. The interface is divided into several sections:

- Left Sidebar:** Contains a tree view of databases and tables. The 'winewebsite' database is selected, and the 'customer' table is highlighted.
- Top Toolbar:** Includes buttons for 'Browse', 'Structure', 'SQL', 'Search', 'Insert', 'Export', 'Import', 'Privileges', 'Operations', 'Tracking', and 'Triggers'. Below these are links for '[Edit inline]', '[Edit]', '[Explain SQL]', '[Create PHP code]', and '[Refresh]'.
- Main Content Area:** Displays the 'customer' table structure and data. The table has columns: `customerID`, `FirstName`, `LastName`, `Username`, `EmailID`, `PostCode`, `Password`, `DateofBirth`, and `ProductID`. There are 10 rows of data, each with 'Edit', 'Copy', and 'Delete' icons.
- Bottom Status Bar:** Shows 'Consolidate results operations' and a search bar.

customerID	FirstName	LastName	Username	EmailID	PostCode	Password	DateofBirth	ProductID
46	Paul	Gasol	Py45	pg45@live.co.uk	SE13 7KL	pg45gasol	1986-02-13	NULL
47	Fabson	Asta	Mata	mata@gmail.com	SE16 8NH	12345	1992-05-05	NULL
48	Fabson	Asta	Mata	mata@gmail.com	SE16 8NH	ssdodjs	1992-05-05	NULL
49	Fabson	Asta	Mata	mata@gmail.com	SE16 8NH	ldgh	1992-05-05	NULL
50	Fabson	Asta	Mata	mata@gmail.com	SE16 8NH	09876	1992-05-05	NULL
51	Amin	Liaca	AMLJ	bted@gmail.com	SE16 8NH	ertyu	1998-02-07	NULL
52	Amina	Dacuda	Admin	bted@live.com	NW34 0TH	ertyul	1990-02-09	NULL
53	ed	bertony	edbe	bted@live.com	SE1 8MN	qwerty	2016-05-11	NULL
54	diego	pamla	kamry	bertoi@yahoo.fr	SE1 8MN	mnbvc	2011-06-21	NULL

FINAL GRADE

GENERAL COMMENTS

Instructor

55/100

PAGE 1

PAGE 2

PAGE 3

PAGE 4

PAGE 5

PAGE 6



Comment 1 | Criterion 3 (10%)

During demo nothing was mentioned about an updated version.

PAGE 7

PAGE 8

PAGE 9

PAGE 10

PAGE 11

PAGE 12

PAGE 13

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.



Different frameworks and their pros and cons are discussed.

20

CRITERION 2 (30%)

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



Not able to clearly answer the problems with product ID and need for customer to type the product code.

17

CRITERION 3 (10%)

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



The answer doesn't meet the requirements of the question. Its the student's responsibility to show the final version in demo. During the demo the updated version was not mentioned. So marks can be awarded only based on what is seen in the demo for all the relevant criteria.

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.



Formatting is not professional.

6

CRITERION 5 (25%)

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



Payment has also to be implemented if it has to be deployed for use. But this is not mentioned. Security features such as password encryption should also be considered in future. During demo, the blog page had some comments typed into it in the code itself to make it look like a blog and is not functional at the moment. But in the submitted version that comments are removed.

12

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