SET11112 2019-0 TR1 001

Web Design & Development

Coursework: Part 2

Name: Iason Tsotoulidis

Mat. Number: 40418279

Edinburgh, November 2019

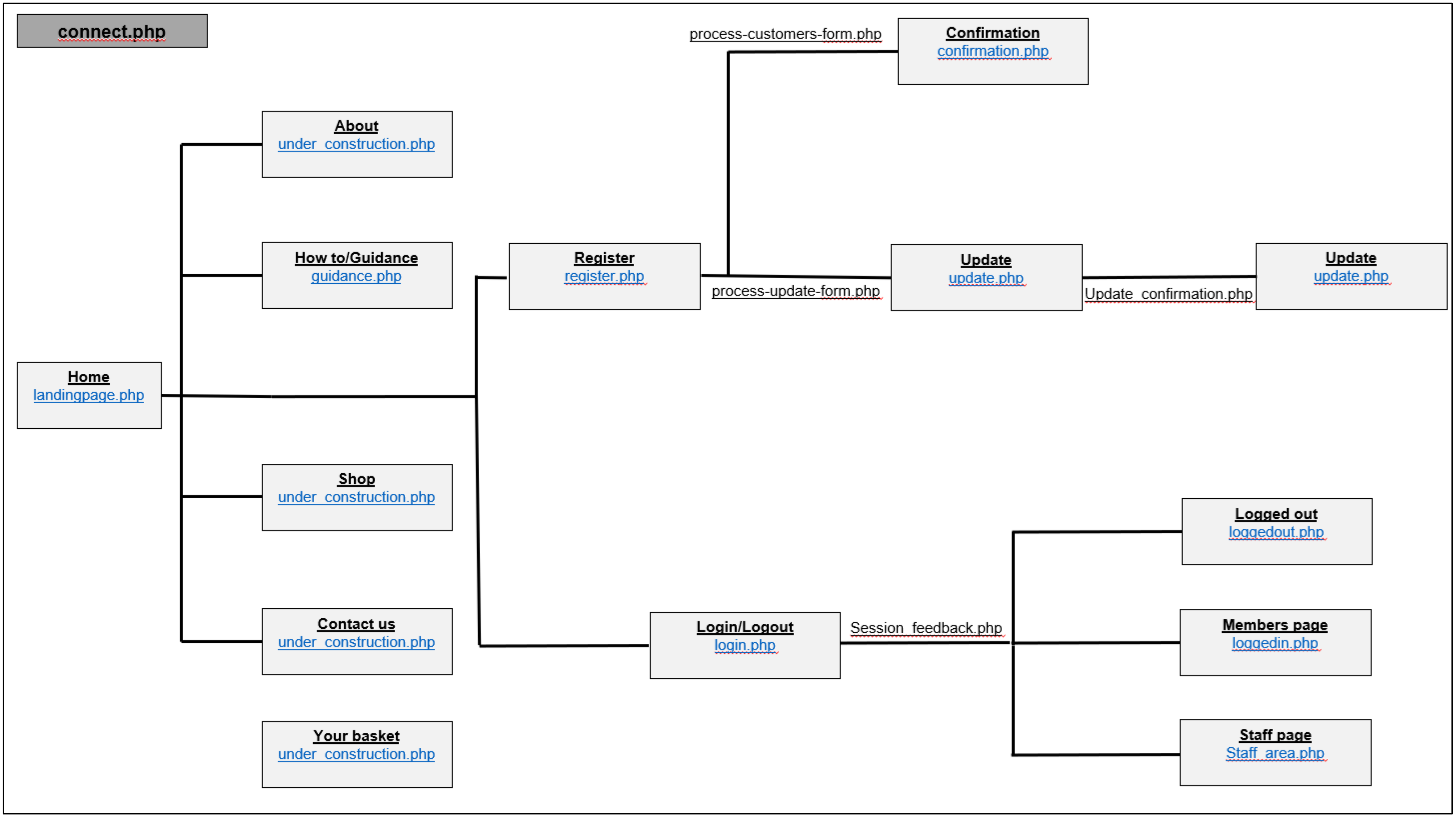
Drink-it

Website diagram

Homepage: http://40418279.wdd.napier.ac.uk/coursework2/landingpage.php

```
//login details
username = test@test.com
$password = 40418279
```

```
//Connection details
$server = 'localhost';
$database = '40418279';
$username = '40418279';
$password = 'NVMN/LwQ';
```



1. Requirements

Front end:

The general layout of the website will remain as is. Header and footer will be present in all web pages and the site will have a coloured background in the main area. The about page, will have general information about the company, the owner and the people working in it as well as information about the opening hours and the delivery fee. It will consist mostly of text and informative images. The landing page and the shop page will allow users to read a small description of the products and add items in their basket with a click. When at least one item is added to the basket, another link appears in the header for the user to "complete the order".

The "Contact us" page will have a form with details and a text area for the user to send. If the user is logged in, the name and email will be pre-populated with his/her details. The 'Your basket" page will have a table of all the items to be ordered, options to remove, edit or cancel the order all together and start a new order, and complete order with a confirmation message. The "login" and the "logged out" page will have box in the center and text in the left-hand side as now. Finally, the company logo will be in the top center in all pages, with the same size as well as the menu bar which is in a bit lighter grey. The whole website will use only Arial or Comic Sans font. Images used should be in a high resolution and if required edited in a suitable software.

Backend:

To get started with the backend, regarding the customer registration, the server should verify the age is over 21 years old, the "accept terms and conditions" checkbox is ticked and that the postcode provided is within the delivery area of the store.

The website needs a domain name, like "drinkit.co.uk", as it is the digital address that people will use to get connected to the website and needs to be recognizable and easily remembered. It will be used along with a business email name like info@drinkit.com for anyone needs to contact the owners. Also, a hosting is needed to store all the company's website content and it is fetched by the browser on the client's screen. A shared hosting is fine for the beginning and if the website visits increase, a VPS hosting might be needed. Free hosting is not recommended for business purposes.

A relational database is also needed that is able to handle many queries and be trustworthy. MySQL is simple and easy to use and the fields should be revised again from time to time.

Finally, and most importantly, a Secure Socket Layer certification (SSL) purchase needs to be made. Although the website does not include online payments yet, the customers feel safe when they see. This certificate authenticates the business' online identity. Once the client's computer and the server agree on the method they are going to use to encrypt and decrypt data, the information sent and received from s is safe.

2. Reflection

The coursework for this module required to build a website (containing at least 3 web pages) for a drink delivery company and it was implemented in two stages, roughly categorized as: a) build an acceptable static prototype of the webpages and b) make that prototype an interactive website with satisfactory appearance and functionality but also interactive in terms of checking inputs, creating, updating and deleting data in the background, as well as user authentication and login and logout capabilities. All the above, were covered in the 11 lecture-tutorial sets and they were either explained directly through theory and practical examples or they were accomplished by reading and trying the material provided weekly. In particular:

For the theoretical part of the module, the heuristics created and used to evaluate similar websites, were used to evaluate the coursework website, where all of them, where possible, were applied. Going to the more technical part, the HTML and CSS that were taught during the first lectures were used extensively in both parts of the coursework to design and create the webpages and for styling as per the needs and my personal preference, always taking into account the current practices and the heuristics mentioned above. Finishing with the front end, we were introduced to WAMP and WinSCP platforms, the latter of which was used for the second part of the coursework to connect to Napier's server and upload the website files.

Moving to the back end of the website and in order to make it interactive, we were introduced to PHP. PHP was extensively used in the second part of the coursework, were the PHP parts were added to the files in order to handle variables ($name, $address) , make decisions according to certain criteria (if – else if – else), handle information in arrays and work with forms and form validation (server or client side). It was then when we were introduced to databases and MySQL where we were able to create, update and remove data to relational tables, either in the command line or phpMyAdmim. Both PHP and MySQl were extensively used in the coursework to create functionality, to create a database record as a customer registers and update and remove the record by interacting with the appropriate HTML tools (forms, buttons, links etc).

Finally, we were taught about cookies and sessions. Sessions were used in the website to allow logged in users to see exclusive content in restricted areas and also to apply restrictions to customers that have logged out. For the future development of the website, the security aspect needs to be addressed where the module introduced us to password encryption and Secure Socket Layer (SSL) certification that one can purchase.

Overall, the module starting from basic concepts and gradually building on them with more advanced technics, gave us through lectures and practical tutorials, the necessary knowledge to build our first website from scratch and get to grips with modern concepts, technologies, programming languages, web server stack packages and modern practices and current standards in web design development.