Timeline

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**Portfolio**

**Student Version**

**ICTWEB513**

**Build dynamic websites**

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Section 1: Dynamic website building preparation

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| Legislation, standards and procedures  *Identify:*   * *One applicable legislation and its relevance to dynamic website development* * *Two applicable standards and its relevance to dynamic website development* * *The procedures that you will follow to develop your dynamic website.* | Legislation: Online Privacy Protection Act  Relevance: From the Simulation Pack, we know that the enterprise's website faces personal privacy risks, and the enterprise is not ready to deal with the risk of personal privacy disclosure. Therefore, this privacy law is very suitable for this business. It is helpful for the promotion of Luca's bakery.  1. Logo on the upper left  For logo design, many top marketing websites have their own logo patterns, and there is a logo in the upper left corner of each page of the website. To represent your own style.  2. Top navigation bar  Most websites have a navigation bar at the top of each page, which makes horizontal top-level navigation a standard for web page design. It can help visitors quickly distinguish what the website is saying, and help readers quickly solve the information they need.  1. Collect the information you need.  2. Plan site map and wireframe creation, and design simple websites.  3. Design, page layout and beautify the page.  4. Content compilation and assembly.  5. Code and debug continuously.  6. Test, review and release.  7. Maintenance, comment monitoring and regular update.  8. Open to the public and use the website. |
| Dynamic website  *Describe the dynamic website you are going to design and develop, including:*   * *purpose* * *expectations for the document* * *required functionality.* | Purpose:  (1) Because the business of the bakery is poor, I want to get more business and attract more customers through this way of creating a website.  (2) Through the construction of dynamic websites, we can provide customers with better services and facilitate their shopping.  (3) Increase the sales of bakeries and promote the development of bakeries.  (4) Through the construction of a dynamic website, we will publish bread making courses, promote the bakery to attract traffic, improve the popularity of the bakery and attract customers.  Expectations for documents:  After the dynamic website is completed, the structure is simple and easy to understand, the text and pictures are clearly distributed, and video is provided. At the same time, the website is easy to learn and does not need to spend too much time. At the same time, business summary and customer demand description. They can publicize the information of Luca Bakery to customers, attract customers to buy bread, understand customers' needs and promote their products.  Required functions:  1. Dynamic websites are based on databases to reduce workload  The dynamic website uses database technology, displays through SQL database, and outputs Luca bakery information through database functions to attract customers.  2. Dynamic website content update  Dynamic websites usually have website background, and content updating and maintenance are simple and fast. The content will be updated frequently to let customers know the specific information of Luca Bakery.  3. Dynamic websites can achieve more functions  The website can realize more functions by using dynamic webpage technology, such as user registration, user login, user management, order management and many other powerful functions. Through the interaction between customers and the website, customers can be timely sent orders to attract customers. |
| User interface design requirements, including user needs, design principles and operating systems  B*ased on the business’ requirements, analyse and then describe:*   * *user interface design requirements for the dynamic website* * *user needs – list at least three.* * *design principles – list at least three* * *operating systems -indicate the system that will be used for web hosting.* | User interface design requirements for dynamic websites:  1. Make sure that users can easily implement it.  Easy for users to operate. Don't design complex and difficult dynamic websites, which will lead to the complexity of website information. It should be easy for users to operate, so that more people are willing to use this website to buy products.  2. The interaction between user and interface shall be considered during interface design.  The purpose of interface design is to promote the transmission of information to meet the needs of users. The website interacts with customers to promote the development of the bakery.  User Requirements – List at least three.  1. The appearance of the website must be modern and beautiful, so that customers can interact with the website.  2. The website is simple and easy to understand, easy to navigate, easy for users to access, and contains a site map that is easy to understand.  3. Enhance network influence, so that customers can order online and view the range of products provided.  Design Principles – List at least three:  1. Easy to understand  We should design a website that is easy for all customers to operate, so that everyone can operate easily. We should not design complex websites that are difficult to understand.  2. User interaction  The website should have a distinctive theme and allow customers to interact so that customers can search and operate the products they need.  3. User priority  The purpose of web page design is to attract users to browse and use, and users should have priority at any time. What users need, what designers design.  Operating System - Indicates the system that will be used for the virtual host:  1. The application program of the dynamic website is installed in the operating system, which is a basic software.  2. The operating system has the monitoring program of loading and running program functions, and has the basic input and output program functions, so that the designed website can be realized. |
| Hierarchy  *Provide a diagram of the hierarchy for the website. This can be hand drawn here or developed using software in which case you should attach a screenshot.*  *Your hierarchy should also show the navigation for the website.* |  |
| User interface prototype  *Provide a diagram of the user interface website. This cannot be hand drawn here and must be developed using software (Figma) in which case you should attach a screenshot and link to your Figma wireframe including pictures and contents.* |  |
| Website architecture  Determine and document the website architecture including:   * *technical requirements, for example, server, storage, memory and communication interfaces* * *Functional aspects including the type of services or processes the dynamic website will provide.* * *Visual appearance of the website, for example, colours, buttons and other visual design elements.* * *Security parameters i.e. how the website will ensure secure access control and transactions.* | 1. Technical requirements:  Ensure the smoothness of the network, whether the website is compatible with computer facilities, and conduct debugging before making the web page.  2. Functions:  The dynamic website of the bakery can combine online and offline. For example, online can make an appointment to place an order, and offline can save queuing to enter the store to pick up the ordered food. At the same time, create a blog, Twitter and other platforms for customers to comment on the store. At the same time, the dynamic website has a customer service function, so customers can communicate with them before and after purchase.  3. Appearance:  According to the layout of the site, the left, center and right sides are used. The left and right sides are used for text and placed in the middle of the picture. In terms of color, the website adopts a unified yellow and white tone, and the overall theme is simple and attractive. The size of the button is moderate, with the cartoon bread pattern to attract more young people to buy.  4. Safety parameters:  The website usually sets the login password and reminds the user that the password should include numbers, which should be composed of letters, upper and lower case, numbers and special symbols. |
| Data storage  Explain how the data collected through the website will be stored? | Through the number of people who place orders on the bakery website, you can see how the number of people who buy various kinds of bread collects data;  At the same time, check the browse volume of the bakery website to analyze the usage rate of the website and the receipt data;  Collect data by checking the number of members on the bakery website;  Collect data by the number of people who sign up for the website |

Section 2: Dynamic website development

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| Dynamic website development  *You are to develop the dynamic website you have planned.*  *Using the software you have downloaded, document and upload the codes to Github and Moodle. Attach Github links here.*  *Take screenshots of your work to attach to Moodle online text.*  *Attach each screenshot of your webpage to the end of this document.*  Each student must |  | |
| Styling  *You are to style your dynamic documents using the software you have selected.*  *Summarise the details of your styling work here. List at least 7 improvements to CSS.*  *Take 2 screenshots of your work to attach to your portfolio. Including annotations to improvements.* |  | |
| Testing  *You are to test each component of the website that you have developed. Describe the testing process for each component here.*  *Number and list your testing procedures.* |  | |
| Integration  *You are to integrate all components to produce the final product.*  *Describe the integration process here.*  *Take screenshots of your work to attach to your portfolio. For instance, before and after db integration.* |  | |
| *Paperclip* Attach: | Screenshots |  |

Section 3: Dynamic website testing and finalisation

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| Testing  *You are to test the website you have developed and check it meets the business’ requirements.*  *List and describe the tests you have undertaken.*  *Take screenshots of your work to attach to your portfolio* |  | |
| Security  *You are check the website to ensure it is secure.*  *List and describe the tests you have undertaken to ensure security.*  *The tests should also follow procedures for cyber security. Describe how you have ensured you follow procedures.*  *Take screenshots of your work to attach to your portfolio* |  | |
| Debugging  *You are check the website to ensure it is bug free.*  *Describe the validation process you undertook to ensure that there are no errors.*  *The tests should also follow procedures for cyber security. Describe how you have ensured you follow procedures.*  *Take screenshots of your work to attach to your portfolio* |  | |
| Browser and devices  *You are to test that your dynamic website work on:*   * *Two different types of browsers* * *Two different types of browsers*   *List the two browsers you tested your dynamic website on and the two devices.*  *Take screenshots of your work to attach to your portfolio* |  | |
| Feedback  *Document an email to your assessor here, asking for feedback on your final dynamic website.*  *Provide the link to your website.* |  | |
| Update  *Describe the feedback you received from your assessor here.*  *Explain how you updated the website based on this feedback.*  *Provide a link to the finalised dynamic website.* |  | |
| *Paperclip* Attach: | Screenshots |  |