| Competency Code | | | CB5141B | | | |
| --- | --- | --- | --- | --- | --- | --- |
| Competency Title | | | Design dynamic website to meet technical requirements | | | |
| Assessment No. | | 1 | | | No. of Assessments | 1 |
| Semester | 1 | Year | | 2012 | Group | 13S |

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| --- | --- | --- | --- |
| 1. Contact Details | | | |
|  | Name | Telephone | Email |
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| **Course Coordinator** | Andrew Barden | 9286 9973 | a.barden@ bhtafe.edu.au |

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| --- | --- | --- | --- |
| 2. Result Category | | | |
| **Result Category** | **Competent 🗹 Graded 🞎** | **Result Code** | CO/NYC |

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| --- | --- | --- | --- | --- | --- | --- |
| 3. Assessment Outline | | | | | | |
| **Assessment No.** | 1 | | **Assessment Type** | | | Document Creation |
| **Assessment Task** | This assessment task will require you to create 3 deliverables:   1. **Quality Management Plan** 2. **Website Design Document** 3. **Website Testing Spread Sheet**   **You may work in a group of up to 3 students for this assignment** | | | | | |
| **Weighting** | 100% of overall mark | | | **Session/s** | 9 | |
| **Element Assessed 1** | | **Plan the design process** | | | | |
| **Element Assessed 2** | | **Analyse the technical requirements** | | | | |
| **Element Assessed 3** | | **Design the website** | | | | |
| **Element Assessed 4** | | **Develop the website to the specified design** | | | | |
| **Element Assessed 5** | | **Test the website** | | | | |

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| 4. Assessment Brief | | | |
| **Assessment No.** | 1 | **Assessment Type** | Document Creation |
| **Assessment Task** | This unit defines the competency required to produce a plan that analyses specified technical requirements and then designs, builds and tests a dynamic website so that it meets those technical requirements.  This assessment task will require you to create 3 deliverables:   1. **Quality Management Plan** 2. **Website Design Document** 3. **Website Testing Spread Sheet**   These documents will l be used in conjunction with the competency **ICAB5165B Create dynamic web pages.**  **You may work in a group of up to 3 students for this assignment** | | |

**Instructions to Students**

This can be a group assignment. **The maximum number of students per a group is 3.** Each person will receive the identical grade. **You may also wish to work on this individually.**

Inform your instructor about the composition of your group **PRIOR to starting your assignment.**

You are permitted to consult with your peers for ideas; however plagiarised work will be **automatically graded as NYC (Not Competent)**

Your instructor is your client for this assignment. If you have any queries, make an appointment to consult your instructor.

**You are permitted to work in groups for this assessment task. Maximum group size is 3. If you choose to work as a group consult your tutor PRIOR to starting your application.**

If you require version control for your group consult your tutor.

The deliverables of this assignment require you to create reports. All reports **must follow a standard report convention**. Below are templates to assist you.

**Documentation Templates/Examples**

|  |  |  |
| --- | --- | --- |
| **Quality Management Plan** | **Web Site Design Document V1** | **Web Site Design Document V2** |
|  |  |  |
| **Web Site Design Document V3** | **Web Site Design Document V4** | **Hierarchy Diagram Example** |
|  |  |  |
| **Web Site Testing SS V1** | **Web Site Testing SS**  **V2** | **Wireframe Example** |
|  |  |  |
| **Test Plan** |  | |
|  |

**The Scenario**

Vandelay Industries PTY LTD specializes in selling hardware components (parts) to customers.  
Customers contact a sales representative of Vandelay Industries PTY LTD when they wish to place  
and order.

**A sales representative has many customers on their books; however a customer only  
contacts one sales representative**.  
  
Below is the list of sales representatives from Vandelay Industries PTY LTD.

|  |  |  |  |
| --- | --- | --- | --- |
| **Sales Rep ID** | **First Name** | **Last Name** | **Commission Rate** |
| 300 | Peter | Provis | 0.05 |
| 301 | Kim | Ng | 0.05 |
| 302 | Lara | Beable | 0.08 |
| 303 | Lydia | Smyth-Jones | 0.10 |

**Each sales representative has many customers**.  Below are the current customers that have used Vandelay Industries PTY LTD.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Customer ID** | **Sales Rep** | **Customer Name** | **Street Address** | **Suburb** | **State** | **Postcode** |
| 30 | Peter Provis | Alex Lifeson | 45 By-Tor Way | Box Hill | VIC | 3128 |
| 31 | Lara Beable | Geddy Lee | 78 Moving Pictures Lane | Box Hill | VIC | 3128 |
| 32 | Lara Beable | Boz Scaggs | 6 Lido Shuffle Court | Mitcham | VIC | 3123 |
| 33 | Lara Beable | Cindy Smalls | 900 Station Street | Blackburn | VIC | 3130 |
| 34 | Smyth-Jones | Tina Bigguns | 78 Willie Parade | Blackburn | VIC | 3130 |
| 35 | Jimmy Smith | Jimmy Smith | 66 Hagis Road | Mitcham | VIC | 3123 |

**A customer places many orders**.  An order, which has a unique order ID, **has only one customer**.  Below is a list of current orders at Vandelay Industries PTY LTD.

|  |  |  |
| --- | --- | --- |
| **Order ID** | **Customer Name** | **Date Created** |
| 10010 | Geddy Lee | 2011-07-04 |
| 10011 | Boz Scaggs | 2011-06-12 |
| 10012 | Jimmy Smith | 2011-06-12 |
| 10013 | Alex Lifeson | 2011-06-05 |
| 10014 | Cindy Smalls | 2011-07-04 |
| 10015 | Geddy Lee | 2011-07-05 |
| 10016 | Alex Lifeson | 2011-06-06 |

**An order contains many parts and different parts can be on many orders.**  Below is a list of the current  
parts that Vandelay Industries PTY LTD supply.

|  |  |  |  |
| --- | --- | --- | --- |
| **Part ID** | **Part Description** | **Price** | **Quantity on Hand** |
| 950 | 0.5cm Nut | 0.10 | 900 |
| 951 | 0.95cm Bolt | 0.25 | 450 |
| 952 | 1.5cm Screw | 1.00 | 760 |
| 953 | 2.0cm Bolt | 1.15 | 490 |
| 954 | 3.0cm Dynabolt | 3.20 | 300 |
| 955 | 4.5cm Hex Bolt | 2.50 | 200 |

You are required to analyse a given scenario and develop a dynamic PHP Web application using a lightweight MVC framework. The light MVC framework will be CodeIgniter 2.1. You will create a desktop web application using Xampp 1.7.7 as your LAMP engine. If you require this application on a staging server consult your tutor.

This web application will be created in the competency **ICAB5165B Create dynamic web pages.**

**This assignment will create the necessary deliverables for the web application.**

Prior to commencing your MVC CodeIgniter 2.1 web application consider the following points:

1. Software requirements
2. Understand and know the Website design standards
3. Know the develop file requirements convention.
4. Know your website coding standards
5. Know the CSS coding standards
6. Designed Hierarchy and Navigation maps for your website
7. Determined Navigation menus
8. Created Storyboards/Wireframes
9. Consider security protocols
10. Implemented a prototype (does not talk to a back-end database)
11. Implementing the CodeIgniter UML Class diagram

Your completed web application will address the following functionality:

1. A user called **admin** can **login** to the application (optional, if time permits)
2. The user can **view all** the sales reps of Vandelay Industries
3. The user can **view all** the customers of Vandelay Industries
4. The user can **add a new customer** to the Vandelay Industries database
5. The user can **create a new order for a customer** ofVandelay Industries
6. The user can **view all orders for a customer** of Vandelay Industries
7. The user can **add parts to an order (create an invoice) for a customer** of Vandelay Industries
8. A user called **admin** can **log off** (optional, if time permits)

**Stage 1 (Creating Quality Management Plan)**

Create a **Quality Management Plan** for your assignment. **QMP** must follow the correct report conventions as outlined by your instructor. Your **QMP** you must outline the following:

1. Design Standards (Including Interface and Report Standards)
2. Modelling standards (e.g. Class diagrams)
3. Coding Standards
4. Security Standards
5. Database Standards

You have been given example of QMPs. Use these examples as your template. It is recommended that you give examples of some of the standards you intend to use in your web application.

Clearly indicate any references you have sourced.

You **Quality Management Plan** must adhere to following format:

1. Front Cover, outlining Document Title, Contributors, Version, Date and Authors
2. Table of contents generated by the word processing application
3. Headers and footers that include document file name pages (in the format Page 4 of 20) and date
4. Any appendices and external references

**Stage 2 (Creating the Website Design Document)**

Examine the scenario above, analysing the technical requirements required to create theweb application.

Create a **Website Design Document** for your web application. The **WDD** must follow the correct report conventions as outlined by your instructor. Your **WDD** you must outline the following:

You have been given example of **WDDs**. Use these examples as your template. .

The contents of your **Website Design Document** will contain the following information. Not all areas may be included. You may assume that a Scope Document has been signed off, aspects of the analysis phase have been documented, and some components of the design phase have been investigated.

1. Introduction: Introduce the application and specify the purpose and scope of the document. Describe any aspects of the analyse phase that have been established. Include the ER diagram and CodeIgniter 2.1 UML class diagram created for **2012OrdersCI**. These can be referenced as appendices rather than inserted in the introduction.
2. Website design standards. Indicate your standards clearly showing examples of the standards you will implement. I.e. Coding, CSS, Filenames, Fonts, etc. (These may have been covered in your **Quality Management Plan**)
3. Client requirements. Indicate what the client must have to interact with your application.
4. Architecture Requirements. This component will require you to have screen dumps of the type of requirements used in your web application. Navigation, menus, headers and footers. Etc.
5. Hardware and Software requirements
6. Hierarchy and Navigation maps
7. Storyboards and page designs. This may include screen dumps. E.g. the login page
8. Server Side Script. What choice and methodologies employed
9. Include a reference to a Website Test Plan. The results of which will be included and an appendix
10. Show prototype to tutor

You **Website Design Document** must adhere to following format:

1. Front Cover, outlining Document Title, Contributors, Version, Date and Authors
2. Table of contents generated by the word processing application
3. Headers and footers that include document file name pages (in the format Page 4 of 20) and date
4. Any appendices and external references

**Stage 3** (**Website Testing Spread Sheet**)

Examine the scenario above, analysing the technical requirements required to create theweb application.

Create a **Website Testing Spread Sheet** for your web application. The **WTSS** will allow you to test different aspects of your completed website application. The **Website Testing Spread Sheet** will follow a similar format to the example **Website Testing Spread Sheet** given in the examples.

|  |
| --- |
| **Web Site Testing SS V1** |
|  |

Consider the following areas of testing:

1. Loading times
2. Browser compatibility
3. GIU display and rendering
4. Validation (server and client-side)
5. Correct URL location
6. Consistency and Uniformity

|  |  |
| --- | --- |
| 5. Submission / Due Date | |
| Submit all deliverables as a compressed file called  **Documentation2012.zip** via Student Web (<http://studentweb.bhtafe.edu.au/index.cfm?fa=bhive.login>) by the due date. | Week 18 Semester 1 2012 |