Assessment Task 3: Develop a Dynamic Website

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| Course code and title | **ICT50220 Diploma of Information Technology** |
| Unit code and  title | **ICTWEB517 Create web-based programs** |
| Due date | 9/6/2024 – Please refer to Moodle |
| Resources  required | • ICTWEB517 and ICTWEB517 Moodle Site  • Access to computer and internet  • ICTWEB517 and ICTWEB517 Learner resource  • Notepad++ Program |
| Decision making rules | To achieve an overall satisfactory result for this assessment task:   * Learners must achieve a satisfactory result for each item in the **Assessment Checklist.** * Learners must demonstrate the website to the teacher(s) before submitting the assessment. |
| Learner  instructions | This task requires you to further develop the website you created in Assessment Task 3. Refer to the Scenario below for more information. You must have completed Assessment Task 3 before commencing this task.  For this task you will:   * Complete it individually. * Complete all sections of the assessment. * Complete it in 10 hours in the class or your own time and submit it by the due date. * Have time to read and review the assessment task in class. * Create a folder as Task3StudentID, you put your website into this folder. * Saving the document as Assessment Task 3 StudentID.docx inside the folder above.   You must agree with the assessment submission terms and conditions by clicking on the ‘I confirm’ radio button in Melbourne Polytechnic Moodle prior to the submission. If you have any questions about the task or concerns about your ability to complete the task, please discuss this with your Assessor. |

## Project Scenario:

Using the website that you created for ICTWEB513 last term, then insert the dynamic contents into the website. You may have not created a website based on the Melbourne Public Library scenario, but we use the Melbourne Public Library as an example, you need to complete the assessment tasks accordantly.

In this task, you must read the below email from the Project Manager and complete the design document for this task.

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| --- |
| *Dear Web Developer*  *This is great. We went live this morning and it’s working really well!*  *We’ve now decided that we would like to expand the website. We would like to allow users (external) to register a membership, and then log into the system when ever they need to, the user can browse through a range of pre-determined consumer products (books) and view or search a product (book) after logged in.*  *We would like all users (external) to be able to view the basic information and search a product on the website, but only the admins (internal staff) should be permitted to view the tracking information of user (external) searches within the website.*  *The admin login name is “*Library*”, and the password is “admin123”*  *I note the 5-day turnaround and will work within your organisation’s policies and procedures to get this up and running.*  *Kind Regards*  *Project Manager* |

## Part 1: Add Client-Site Scripting Contents

Add client-side contents into your website. Oneos the web pages should have one of the following dynamic contents:

* JavaScript DOM to have hover effect for one of the images.

or

* JavaScript library (JQuery) to slide contents up and down.

or

* JQuery to insert a slide show for 3 images.
* or
* Determine HTTP requirements for running a server-side application.

## Part 2: Create a Database

You are required to create a database and tables within the website based on the database design in your assessment task 2.

Learners use MYSQL to create a database including the tables that you designed in your assessment 2, and then export it into your local drive. You need to submit this SQL file with your website together.

## Part 3: Web Application Requirements

Insert the following web applications into your website.

1. A home page to display the information about the website. You must have:

* a session variable to pass into this page for when the admin is logged in
* a message to display when a non-admin is logged in.

1. A registration page to allow the admin to create their account. Ensure this data is tracked between browsers.
2. A login page that allows the admin to log in. You must:

* create a session and cookie for when the admin logs in.
* use a cookie to manage the log time – if there is inactivity for 5 minutes, the admin should be logged out.

1. A search page that allows the users (admin and non-admin) to search a book by entering the title of the book via the tracking table.

A view all tracking details page. Only the admin can view the list of the words of the admin and non-admin users entered into the search box.

A change password page to allow registered admin to change their password. Admin has to login first and then they can update their password.

1. A logout option that allows a logged in admin to logout of the website and return to the home page of the website. Use sessions and cookies to do this.
2. Include comments in the web application, especially where functionalities, the session and stateless applies.

## Part 4: Test the Web Application

1. Test your web application in the listed browsers and on a mobile device.

* Complete the test details for each listed browser and a mobile device in the tables below. Record your findings and rectify any incompatibilities you find. Be specific, for example:
* *‘Updated HTML code by adding a META tag inside head contents, it sets the web page to the screen width of the device. Update CSS code by adding @media (max-width: 600px) block.’*
* Your Assessor will verify the information in the tables by opening your website in the different browsers and on a mobile device.

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| --- | --- | --- | --- | --- | --- |
| **Pages** | **Google Chrome**  **(Yes/No)** | **Mozilla Firefox**  **(Yes/No)** | **Internet Explorer**  **(Yes/No)** | **Mobile device**  **(Yes/No)** | **Rectifications** |
| **Home page** | Yes | Yes | Yes | Yes | Performs well without modification |
| **Registration page** | Yes | Yes | Yes | Yes | Performs well without modification |
| **Login page** | Yes | Yes | Yes | Yes | Performs well without modification |
| **Search page** | Yes | Yes | Yes | Yes | Performs well without modification |
| **View tracking page** | Yes | Yes | Yes | Yes | Performs well without modification |
| **Change password page** | Yes | Yes | Yes | Yes | Performs well without modification |
| **Logout page** | Yes | Yes | Yes | Yes | Performs well without modification |

1. Select 3 functions within your website to test.

* Fill in the details for each function in the table below.
* Record your results and note any rectifications.
* Your Assessor will verify this information by testing your chosen functions.

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Function 1** | **Function 2** | **Function 3** |
| **State the function you are testing:** | **Home page** | **Change password page** | **Logout page** |
| **Results – Functions Works (Yes/No)** | Yes | Yes | Yes |
| **Function Rectification:** | functioning normally | functioning normally | functioning normally |

1. Test your website for cyber security. Describe:

* the process you used to test security
* the results
* any rectifications required.

Your Assessor will verify this information by testing the security of your website.

#### Instruction for submission

* Zip the following to a folder titled ‘Task4StudentID’ and include:
  + your website
  + your database .sql file
  + The word document with the answers
* Upload the zipped folder into Melbourne Polytechnic LMS site (<https://online.melbournepolytechnic.edu.au>).

## Assessment Checklist: Task 3 - Develop a Dynamic Website

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| **Learner name** | | WangYiZhuo | **Student ID** | | S1554654 | |
| **Assessor name** | | Mr. WU | **Date** | | 9/6/2024 | |
| Assessment checklist 1  assessor to complete the following | | | | | | |
| **The LEARNER demonstrated the following skills in Part 1:** | | | | **SATISFACTORY** | | **NOT SATISFACTORY** |
|  | Included client-side contents in website, including:   * JavaScript DOM over image, or * A JQuery for slide contents, or * JQuery for slide show, or * Website to a professional standard | | |  | |  |
| **Feedback -** Assessor must include feedback about the observed performance | | | | | | |
| *the student has used at least one client side contents.* | | | | | | |
| **The LEARNER demonstrated the following skills in Part 2:** | | | | **SATISFACTORY** | | **NOT SATISFACTORY** |
|  | Created a database including:   * 4 field accounts table * 4 field products table * 2 field tracking table * correct use of primary keys | | |  | |  |
| **Feedback -** Assessor must include feedback about the observed performance | | | | | | |
| *the student has correctly created database.* | | | | | | |
| **The LEARNER demonstrated the following skills in Part 3:** | | | | **SATISFACTORY** | | **NOT SATISFACTORY** |
|  | Created home page with session variable. | | |  | |  |
|  | Created a registration page for admins and non-admin users and ensured data is tracked between browsers. | | |  | |  |
|  | Created a login page and auto logout managed via sessions and cookies. | | |  | |  |
|  | Created a search page with search function. | | |  | |  |
|  | Created an admin-only view all tracking details page. | | |  | |  |
|  | Created a change password page where admin must login to change password. | | |  | |  |
|  | Created a logout option that redirects to homepage. | | |  | |  |
| **Feedback -** Assessor must include feedback | | | | | | |
| *All functions are functional.* | | | | | | |
| **The LEARNER demonstrated the following skills in Part 4:** | | | | **SATISFACTORY** | | **NOT SATISFACTORY** |
|  | Tested the web pages on a variety of browsers, identified and fixed any issues and recorded the results.  Assessor tested on web browsers and confirmed results. | | |  | |  |
|  | Tested the webpages on a mobile device, identified and fixed any issues and recorded the results.  Assessor tested on mobile device and confirmed results. | | |  | |  |
|  | Tested 3 functions and page security and recorded results. | | |  | |  |
|  | Supplied copy of website that complies with all legislative requirements (privacy for data collection, copyright for embedded video and images) | | |  | |  |
| **Feedback -** Assessor must include feedback about the observed performance | | | | | | |
| *Pages have been tested.* | | | | | | |

# Assessment Task Summary: Task 3 - Develop a Dynamic Website

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| Trainer/Assessor to complete the following:  **THE LEARNER:** | | | Yes | No |
| 1 | Satisfactorily completed all items in Assessment Checklist. | |  |  |
| feedback **-** Assessor must include feedback | | | | |
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| OVERALL TASK result | | | | |
| Satisfactory  Not Satisfactory (resubmission required) – Due date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | |
| Date Assessment Returned | |  | | |
| Trainer/assessor Name | |  | | |
| Trainer/Assessor signature | | X | | |

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| **LEARNER DECLARATION**: Please read, tick and sign below | | | |
| I, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ have been advised of the outcome of this assessment task.  PRINT NAME | | | |
| LEARNER Signature | X | Date |  |