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| Student Assessment | **ICTWEB502**  **Create dynamic webpages** |
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| **ICT60515-Advanced Diploma of Computer Systems Technology** |
| Version 3.2 |
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| International Institute of Business & Information Technology  RTO No: 6538/ ABN:64 085 266 771/ 085 266 771  Head Office: Ground Floor, 841 George Street, Sydney NSW 2000  Web: https://www.iibit.edu.au |

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**SECTION 1: INTRODUCTION**

**Purpose**

The purpose of this document is to guide learners who undertake assessments for the following unit:

* **ICTWEB502 – Create dynamic web pages**

**Unit Descriptor & Industry Context**

This unit describes the skills and knowledge required to produce both server and client-side content.

It applies to individuals working as web developers who are responsible for creating dynamic pages to provide interaction between the user and the website. They use highly developed technical and analytical skills when developing the user-website interface.

Candidates should refer to unit of competency via the following link: - <https://training.gov.au/Training/Details/ICTWEB502>

**SECTION 2: ASSESSMENT REQUIREMENT**

There are two (2) forms of assessment or evidence gathering methods for this unit of competency. Learners are required to complete and submit all the assessments.

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| **Assessment Event 1 – Knowledge Questions** |
| This task consists of eight (8) questions related to client and server-side programming. Purpose of this assessment is to be able to produce basic server and client-side content. |
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| **Assessment Event 2 – Project work** |
| This task consists of a project work with three (3) parts. Purpose of this assessment is to be able to prepare a project proposal, prepare a website and test and debug the web document functionality. |

**SECTION 3- INSTRUCTIONS TO STUDENTS**

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| **ASSESSMENT INSTRUCTIONS**  The following instructions are meant to be read, understood and followed by the students of IIBIT prior to commencing the assessments: -  Your assessor will explain each assessment task and the terms and conditions relating to the submission of your assessment task. Please consult your trainer and assessor if you are unsure of any questions or if you have any special requirements, which you think should be considered to help and support you with the assessments.  It is essential that you understand and adhere to the terms and conditions and address each assessment task fully. If any assessment task is not adequately addressed, then your assessment task will be returned to you for re-submission. Your assessor will remain available to support you throughout the assessment process and to support any special requirements identified by you or by the assessor.  Assessment tasks are used to measure your skills and knowledge of the overall unit of competency. When undertaking any written assessment tasks, please ensure that you address the following criteria:  • address each question including any sub-questions  • demonstrate that you have researched the topic thoroughly  • cover the subject in a logical, structured manner  • your assessment tasks are well presented, well referenced and word-processed  • your assessment tasks include your full legal name on every page.  **WHAT TO EXPECT FROM THE ASSESSMENT ACTIVITIES!**  The following is the performance evidence and knowledge evidence needed to **confirm competency in this unit**.  The candidate must be able to demonstrate they can satisfactorily: -   * produce dynamic web pages that include both client and server-side dynamic content * create efficient and effective code to meet technical requirements * test the website and code in a variety of web browsers.   The candidate must also **confirm their knowledge** of: -   * explain web-programming concepts, including:   + authentication and web security   + hypertext transfer protocol (HTTP)   + session management   + stateless programming * identify and describe internet technologies including:   + programming control structures   + object-oriented programming * recognise and outline various web browsers.   **ASSESSMENT CONDITIONS**  Gather evidence to demonstrate consistent performance in conditions that are safe and replicate the workplace. Noise levels, production flow, interruptions and time variances must be typical of those experienced in the website technologies field of work, and include access to:   * a development environment * a server * a database server * browsers.   **WHS Requirements**  As a duty of care, your trainer and assessor would inform you about any WHS requirements that need to be met throughout the term, during and outside class hours. In-case of any emergency please follow the guidelines provided to you by your trainer and assessor.  **RESOURCES**   | **Resource** | **Additional Information** | | --- | --- | | Course materials | To access go to moodle space | | Learner Guide | ICTWEB502 Learner Guide  Learning Guide can be downloaded from moodle space. | | PPT Slides | PPT slides can be downloaded from Moodle Space | | External resources | Provided by Trainers/ Assessors | |
| **ASSESSMENT SUBMISSION**  You must upload the completed assessments with the cover sheet in the submission portal of your Moodle account by the due date. Your assessor might not accept your work after the due date unless your assessor granted prior permission to you. Prior to submission please ensure   * All of the assessment activities must be successfully completed. * Read all of the questions thoroughly before attempting to answer each   When submitting the assessments either *hardcopy* ( Learner should check with assessor ) or through the Moodle learner must complete and include the following documents :   * Section 1- Pre-Assessment Check List * Assessment Cover Sheet * Assessment Tasks Questions * Evidences * Complete Student Declaration * Assessor Marking and Feedback Form   **ASSESSMENT OUTCOME**   * The submitted evidence will be assessed against the set performance indicators (Refer to performance indicators in marking guide section) your assessor will record your performance as “Satisfactory” or “Not Satisfactory” against each performance indicator. * The outcome of this assessment will be “Satisfactory” if the learner’s performance is satisfactory against all indicators. * The result for this assessment will be “Not Satisfactory” if the evidence provided is not satisfactory against any one or all indicators. * If the learner is deemed “Not Satisfactory” then learner need to check the written feedback provided on Moodle by the assessor and contact the assessor for any further verbal explanation or clarification are required. You need to resubmit the assessments within the given time-frame set by your assessors.   The learner has two (2) opportunities to successfully complete each activity; the assessment record sheets include space to record the number of attempts, for example  If the response or performance is successful, your assessor will then record a tick in the appropriate square   |  |  | | --- | --- | | **S** | **NS** | | **🗸** |  |   If the response is not successful, then the assessor will place a 🗸 in the appropriate square   |  |  | | --- | --- | | S | NS | |  | 🗸 |   Possible outcomes could be: -   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | **S** | **NS** |  | **S** | **NS** | | 1st | 🗸 |  | 2nd | - |  | | 1st |  | 🗸 | 2nd | 🗸 |  | | 1st |  | 🗸 | 2nd |  | 🗸 |   In the last case the learner has not successfully completed this assessment and would be deemed Not Yet Competent (NYC) for the unit.  Learners who are unsuccessful after the 2nd attempt are not permitted to re-sit the assessment without prior written approval from the Course Coordinator.  **REASONABLE ADJUSTMENT**  Reasonable adjustment means modifications or changes that give the learner equal opportunities in training and assessment. Where a candidate requires reasonable adjustments, assessors will decide what types of adjustments are needed and then make a judgment about whether these are 'reasonable' given the unit content requirements and specifications.Some examples of reasonable adjustment are:   * books or learning materials in an alternative format, e.g. audio, electronic * access to specialized software or equipment * assistance from a support person, e.g. a note taker or sign language interpreter * extra time to complete assessments. * customizing resources and activities within the * training package or accredited course * modifying the presentation medium * learner support FOR use of assistive / adaptive technologies 1 * making information accessible both prior to enrolment and during the course * monitoring the adjustments to ensure learner needs continue to be met.   You will have a say in deciding what your reasonable adjustment will be. The decision  will take account of:   * your needs, abilities and independence * how and where your course will take place * the types of reasonable adjustment and resources available. * Reasonable adjustment does not: give you an advantage over others. * The use of interpreters would not be a reasonable adjustment for assessment of units in this Training Package as English language is essential.   **ASSESSMENT APPEAL PROCESS**  If the learner is not satisfied with assessment outcome, then learner have the right to appeal. Learner must first discuss the issue with his/her trainer/assessor. If the learner would like to proceed further with the appeal after discussions with the trainer/assessor, the learner need to lodge an appeal with the Course Coordinator, in writing, outlining the reason(s) for the appeal. |

**SECTION 4- WRITING INSTRUCTIONS**

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| Headings and  Subheadings | * Use ‘Styles’ to ensure consistency (Home  Styles  Headings) * Use the titles in your assessment tool’ e.g.: Assessment Activity 1 |
| Citation and  Reference List | * Follow the instructions and guide provided by trainer /assessor for referencing style used. |
| Capitalisation | * Use initial capitals for positions, personal names, place names, nationalities, and groups of people   E.g.; **H**uman **R**esources **M**anager – Mr **D**avid **S**tom– **S**ydney – Australia – Australian   * Write company/brand names as they are commercially used   E.g.;Apple - **i**Phone |
| Cover Page | The following must be completed.   * Course Code & Title * Unit of Competency Code & Title * Date of submissions * Your Student ID and Full Name * The details of your Trainer/Assessor * -     Student declaration |
| Portfolio  Structure | * Follow a logical and sequential structure in your assessments preventing ambiguity for your Trainer/Assessor. |
| Wording | * Address each question and provide evidence for each activities .Clearly indicate the question and activity number provided. * Follow the Word count for written tasks is given within each task. * Your word count does not includeassessment cover page, table of contents, bibliography, table/figure captions, and appendix (if any). |
| Lists | * Use bullet-lists to list items or summarise content * Ensure consistent indenting and format * Use correct punctuation; nothing after each list, only full stop at the end of the last item * Use two-level spacing for nested lists * Example 1 * Example 2 |
| Font | * Ensure readability and legibility in text by using an easy-to-read font colour, type and size.   E.g.: black, Times New Roman ,Arial or Calibri (Body), 11pt or 12 pt |
| Header | * Indicate your full name and student Id for each assessments. |
| Spacing | * Use 1.15 as line spacing. |
| Printing | * Use Moderate margins for printing (Page Layout, Margins, Moderate). * Print Black/White unless stated otherwise by your Trainer/Assessor. |
| Plagiarism | * Refer academic policy on plagiarism * Always abide with the principles of academic honesty, as we always check assessments for plagiarism. Provide referencing where relevant. |

**SECTION** **5**

**Pre-assessment Checklist (Complete the Pre-assessment check list in moodle)**

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| **Student name:** | Wagner Lopes | |
| **Student ID:** | 201820351 | |
| **Units of competency:** | **ICTWEB502 – Create dynamic web pages** | |
| **Trainer/Assessor:** | Md Rajjaqul Haider | |
| **Date:** |  | |
| **Checklist**  I have been informed by the Trainer about- | | * **(Insert Tick mark)** |
| The purpose of the assessment | |  |
| The assessment environment and the process covering when the assessment will occur, where the assessment will occur, who will assess me and the feedback process | |  |
| The unit of competency including each element, performance criteria, foundation skill, performance evidence, and knowledge evidence that I will be assessed on | |  |
| Various methods of assessment, assessment instruments, submission requirements and the due date for this unit of competency | |  |
| The resources provided by IIBIT for the students to undertake this assessment | |  |
| The required performance level for each assessment task | |  |
| The essential assessment conditions for the students to carry out each assessment task | |  |
| Arrangement of special needs of the students, if necessary | |  |
| The Trainer also summarised the above information and allowed me to ask questions | |  |
| I acknowledge that I have read and understood the Student Assessment Handbook involving following concepts:   * the authenticity of my work * re-submission, re-assessment policy/procedures * appeals process * regulatory information * confidentiality procedures | | |
| **Student to sign here: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_** | | |

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| **ASSIGNMENT COVERSHEET** | | | | | | |
| **Qualification Code / Name:** | | ICT60515 Advanced Diploma of Computer Systems Technology | | | | |
| **Competency Code / Unit(s):** | | ICTWEB502 – Create dynamic web pages | | | | |
| **Student's Full name:** | | Wagner Lopes | | | | |
| **Student ID:** | | 201810351 | | | | |
| **Assessor’s name:** | | Md Rajjaqul Haider | | | | |
| **STUDENT DECLARATION** | | | | | | |
| You are required to read the following declaration and sign below once you have completed all your assessment activities. You assessor will advise you of your result.  **Student’s Declaration:** I declare that:   * I am submitting work in this assignment that is my own, except where acknowledgement/s of sources are made. * I was explained the Units of competence, elements and performance criteria which I studied during the course and provided with adequate resources which enable me to complete this assessment. * The assessment tasks, assessment criteria and assessment due date(s) for this course were explained. * I was advised and I am aware of IIBIT’s Policies and Procedures including the Assessment Policy and the Assessment Appeals Process. * I/we hold a copy of this work which can be produced if the original is lost/damaged. * I have been advised am aware of how to access my Record of Results.   **Signature of student:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Date:** *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* | | | | | | |
| **OVERALL ASSESSMENT RESULT (Assessor’s use only)** | | | | | | |
| **Assessment Tasks** | **Comments (**as required – for resubmissions of task specify a new due date**)** | | | | Satisfactory | Not satisfactory  **(Resubmit)** |
| **Assessment Task 1** |  | | | |  |  |
| **Assessment Task 2** |  | | | |  |  |
| **Overall Outcome** | **Competent ☐** | | **Not Yet Competent ☐** | | | |
| **Assessor’s feedback to the student:** | | | | | | |
| **Student’s Declaration:**  This work is my/our original work and no part of it has been copied from any other student’s work or from any other source except where due acknowledgement is made.  **Signature**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Date:** \_\_\_\_/\_\_\_\_\_/\_\_\_\_\_ | | | | **Assessor Declaration:**  I declare that I have conducted a fair, valid, reliable and flexible assessment with this candidate, and I have provided appropriate feedback.  **Signature**: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Date:** \_\_\_\_/\_\_\_\_\_/\_\_\_\_\_ | | |

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| **ASSESSMENT 1** | |
| **Qualification Code / Name:** | ICT60515 Advanced Diploma of Computer Systems Technology |
| **Competency Code / Unit(s):** | ICTWEB502 Create dynamic web pages |
| **Student’s full legal name: name:** | Wagner Lopes |
| **Student ID:** | 201810351 |
| **Assessor’s name:** | Md Rajjaqul Haider |

**Structured Activities: Assessment Task 1 – Knowledge Questions**

Assessors must explain the assessments to the students prior to the students commencing their assessment tasks.

**ASSESSMENT INSTRUCTIONS**

**Context**

Purpose of this assessment is to assess skills and knowledge required to design web page layout and create website.

This assessment takes place in International Institute of Business and Information Technology (IIBIT) computer lab.

The following factors must be observed during assessment – please follow WHS instructions given by your trainer and ones put on the wall. This assessment is due when you are instructed by your trainer.

**Procedure**

* Read all questions carefully
* Provide an answer to all questions
* Attach evidence documents to this tool
* Ensure your assessor has acknowledged the receipt of the evidence by signing next to “assessor acknowledgement of receipt” section of marking guide.
* Please ensure to keep electronic copies of evidence submitted until you complete your qualification.

**Instructions to the students**

The knowledge questions will establish your underpinning knowledge in this unit of competency. It is important that you read each question carefully and provide detailed answers for each tasks. You can research the answers using your workbook or on the internet, however, your answers must be in your own words.

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| **Assessment Overview** | |
| **Assessment Item:** | Students must provide answers to all questions. |
| **Purpose of Assessment:** | This is a **Summative** **Assessment** designed to provide evidence of the student’s ability to:  ***Performance Evidence***   * produce dynamic web pages that include both client and server-side dynamic content * create efficient and effective code to meet technical requirements * test the website and code in a variety of web browsers.   ***Knowledge Evidence***   * explain web-programming concepts, including:   + authentication and web security   + hypertext transfer protocol (HTTP)   + session management   + stateless programming * identify and describe internet technologies including: * programming control structures * object-oriented programming * recognise and outline various web browsers.   Assessment covers the content of the Learner Guide: ICTWEB502 Create dynamic web pages. Comprehensive mapping of key components of task to Unit of Competency is included in the Unit Mapping Guide for: ICTWEB502 Create dynamic web pages. |
| **Target Group:** | The target group is international students ICT60515 Advanced Diploma of Computer Systems Technology. |
| **Response Format:**  **(may tick more than one item)** | ☐ Oral Response  🗹 Written Response  🗹 Performance/Demonstration  ☐ Create Output  ☐ Other (please specify) << insert text>> |
| Assessment Conditions: | Location  ☐ In-Class: Exam Conditions  🗹 In-Class: Supervised  ☐ In-Class: Unsupervised  ☐ Workplace: IIBIT Observed  ☐ Workplace: Third Party Observation  ☐ Other (please specify) << insert text>> |
| Assessment Conditions Specified by the Assessment Requirements  🗹 Access to a development environment  ☐ Access to a server  ☐ Access to a database server  ☐ Access to browsers.  *Your trainer can assist you to have access to any required documents.* |
| Time Restrictions  The time allocated for the completion of this assessment item is as per the timetable of the term. Trainer will inform the assessment due date. |
| Restrictions on the administration of the assessment item  🗹 No restrictions; assigned member of teaching staff may administer  ☐ There are specific assessor qualifications/and or training required (Please specify) << insert text>> |
| **Material/Resources Required:** | * Units of Competence * Learner guides * Trainers presentation materials * Aids and materials defined by the assessment conditions (refer to separate inventory and session plans) * Guidance notes |
| **Assessor Intervention:** | Prior to the assessments the learners will be orientated to the assessment environment. Learners will be familiarized with:   * the equipment available, * the Assessment environment * the location of commonly used equipment * the facility-specific policies that may impact on the assessment * Software required * Submission procedure   Learners are allowed to ask questions about any aspects of the assessment environment.  The assessors use the full description of the marking criteria to determine whether a performance indicator was demonstrated.  An assessor will speak with the candidate at any time during the Assessment to manage any risks or reasonable adjustments. |
| **Reasonable Adjustments:** | The types of reasonable adjustment permitted for this assessment item should not affect the standard of skills required in the workplace. Examples of reasonable adjustments in assessments may cover the following;  Teaching Tools & Environment   * substitute alternative tasks * note-taking support * Present information in a range of media * adapt the physical environment and equipment, for example, audio-visual aids, specific furniture * ergonomic chair/desk   Learning Materials   * course material in alternate formats—electronic, large print, braille   Assessments   * Extend or modify timeframes for assessment. * use of laptop for assessments * alternate assessment tasks * Use oral assessments ( presentations, recorded responses, and telephone sessions) as alternatives to written tasks * Provide sufficient feedback on the progress of individual learners regarding their learning goals.   (Note that IIBIT cannot Substitute English to assess the learner.).Please refer Reasonable Adjustment guidelines more details. |

🖎 **Assessment Task 1: -**

**Questions:**

**Question 1: Write in your own 100-150 words, the difference between http:// and https://.**

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| **HTTP, or Hypertext Transfer Protocol is basically the protocol used by the browsers and http servers to transfer web pages through the internet. The only difference between the two is the “s”, at the end of the HTTPS, which means “secure”. This means the connection between browser and http server is encrypted using technologies such as the RSA. It made the information unreadable by anyone which may be sniffing the network trying to get sensitive data. The RSA, for example uses 2 keys, which only works in pairs, to do this protect the data. The public key can only be used to encrypt the information while the private key can only be used to decrypt the data which was encrypted by its specific public key.** |

**Question 2: Explain how can you maintain session state in the web tier? (50-100 words)**

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| **After the user authenticates using an username and password, the server could create a token with represents the session and then the browser and server can communicate using this token to maintain the session state.** |

**Question 3: Explain how HTTP Protocol is stateless by design? (50-100 words)**

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| **It is stateless because every http request happens independently of previous states of the application and do not impact future state. The client simply make the request to the server, which does his job independently and send the response to the frontend, which uses the information to update the user interface.** |

**Question 4: Summarise in 30-60 words the explanation of each of the following concepts:**

**4.1. Authentication**

**4.2. Hypertext transfer protocol (HTTP)**

**4.3. Session management**

**4.4. Stateless programming**

**4.5. Web security**

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| **\* Authenication: It is how you identify the user to give them access to private data or special information**  **\* HTTP: Internet protocol used to transfer information between the Web Client and server**  **\* Session management: It is how you keep the user authenticated after the login**  **\* Stateless programming: It is when the software does not keep track of the state of the application**  **\* Web Security: discipline responsible for guarantee the safety of the information stored inside the programme** |

**Question 5: Answer the following questions regarding “programming control structures”:**

**5.1. Prepare a list of four “programming control structures”.**

**5.2. How else “programming control structures” are known as?**

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| **5.1. If statements, switches, for loops, while loops**  **5.2. Flow control** |

**Question 6: Explain Object-oriented programming (OOP) in your own 30-60 words)**

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| **OOP is a programming paradigm which uses classes and constructors to represent simplified versions of real world objects inside the system. For example, it is possible to model users, vehicles, companies, products, etc, inside the system using OOP.** |

**Question 7: Discuss three (3) strategies for designing cross-browser compatible and responsive websites.**

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| * 1. **Checking the version of the browser and creating different code depending of the browser type and version: Really complex and time consuming and nowadays there are already plenty of libraries which does this job.**   2. **Using libraries which convert the conde into a more generally compatible version. This strategy is cheaper, faster, safer and usually provides better solution because you don’t need to worry to much about the browser compatibility. One example is to use Webpack to convert ES6+ into ES5, which is compatible with most of the browsers**   3. **Restrict the browser support. If you are implementing a solution for a company, for example, it is easy the client to use only specific browser versions, which simplifies the life of the developers and reduce cost and complexity.** |

**Question 8: Prepare a list of three main web-browsers you must use to test your website.**

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| **Firefox, Microsoft Edge and Google Chrome** |

**ASSESSOR USE ONLY**

**Assessor Marking and Feedback Form**

Assessor to ensure the evidence supplied is enough to demonstrate satisfactory performance.

**Assessment 1- Knowledge Questions**

| **Please tick if the learner completed all the required evidences**  **Did the learner** | **1st** | | **2nd** | |
| --- | --- | --- | --- | --- |
| **S** | **NS** | **S** | **NS** |
| **Question 1:** Write in your own 100-150 words, the difference between http:// and https://. |  |  |  |  |
| **Question 2:** Explain how can you maintain session state in the web tier? (50-100 words) |  |  |  |  |
| **Question 3:** Explain how HTTP Protocol is stateless by design? (50-100 words) |  |  |  |  |
| **Question 4:** Summarise in 30-60 words the explanation of each of the following concepts:  4.1. Authentication  4.2. Hypertext transfer protocol (HTTP)  4.3. Session management  4.4. Stateless programming  4.5. Web security |  |  |  |  |
| **Question 5:** Answer the following questions regarding “programming control structures”:  5.1. Prepare a list of four “programming control structures”.  5.2. How else “programming control structures” are known as? |  |  |  |  |
| **Question 6:** Explain Object-oriented programming (OOP) in your own 30-60 words) |  |  |  |  |
| **Question 7:** Discuss three (3) strategies for designing cross-browser compatible and responsive websites. |  |  |  |  |
| **Question 8:** Prepare a list of three main web-browsers you must use to test your website. |  |  |  |  |
| **1st Attempt (Trainer to Tick)**  **Assessment Outcome: ❑ Satisfactory ❑ NOT Satisfactory** | | | | |
| **2nd Attempt (Trainer to Tick)**  **Assessment Outcome: ❑ Satisfactory ❑ NOT Satisfactory** | | | | |
| **Trainer Comments** | | | | |

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| **ASSESSMENT 2** | |
| **Qualification Code / Name:** | ICT60515 Advanced Diploma of Computer Systems Technology |
| **Competency Code / Unit(s):** | ICTWEB502 Create dynamic web pages |
| **Student's full legal name: name:** | Wagner Lopes |
| **Student ID:** | 201810351 |
| **Assessor’s name:** | Md Rajjaqul Haider |

**Structured Activities: Assessment Task 2 – Project Work**

**Assessors must explain the assessments to the students prior to the students commencing their assessment tasks.**

**ASSESSMENT INSTRUCTIONS**

**Context**

Purpose of this assessment is to design web page layout and create website.

This assessment takes place in International Institute of Business and Information Technology (IIBIT) computer lab. The following factors must be observed during assessment – please follow WHS instructions given by your trainer and ones put on the wall.

This assessment is due when you are instructed by your trainer.

**Procedure**

* Read all questions carefully
* Provide the answer to all questions
* Attach evidence documents to this tool
* Ensure your assessor has acknowledged the receipt of the evidence by signing next to “assessor acknowledgement of receipt” section of marking guide.
* Please ensure to keep electronic copies of evidence submitted until you complete your qualification.

**Instructions to the students**

In this assessment you are required to develop an application for a business using ASP language based on the requirements given from the client.

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| **Assessment Overview** | |
| Purpose of Assessment: | This is a **Summative Assessment** designed to provide evidence of the student’s ability to:  Performance Evidence   * produce dynamic web pages that include both client and server-side dynamic content * create efficient and effective code to meet technical requirements * test the website and code in a variety of web browsers.   Knowledge Evidence   * explain web-programming concepts, including:   + authentication and web security   + hypertext transfer protocol (HTTP)   + session management   + stateless programming * identify and describe internet technologies including: * programming control structures * object-oriented programming * recognise and outline various web browsers.   It covers the content of the Learner Guide: ICTWEB502 Create dynamic web pages. Comprehensive mapping of key components of task to Unit of Competency is included in the Unit Mapping Guide for ICTWEB502 Create dynamic web pages. |
| Target Group: | The target group is international students undertaking ICT60515 Advanced Diploma of Computer Systems Technology. |
| Response Format:  (may tick more than one item) | ☐ Oral Response  🗹 Written Response  ☐ Performance/Demonstration  🗹 Create Output  ☐ Other (please specify) << insert text>> |
| Assessment Conditions: | Location  ☐ In-Class: Exam Conditions  🗹 In-Class: Supervised  ☐ In-Class: Unsupervised  ☐ Workplace: IIBIT Observed  ☐ Workplace: Third Party Observation  ☐ Other (please specify) << insert text>> |
| Assessment Conditions Specified by the Assessment Requirements  🗹 Access to a development environment  ☐ Access to a server  ☐ Access to a database server  ☐ Access to browsers.  *Your trainer can assist you to have access to the documents.* |
| Time Restrictions  The time allocated for the completion of this assessment item is as per the timetable of the term. Trainer will inform the assessment due date. |
| Restrictions on the administration of the assessment item  🗹 No restrictions; assigned member of teaching staff may administer  ☐ There are specific assessor qualifications/and or training required |
| Material/Resources Required: | * Units of Competence * Learner guides * Trainers presentation materials * Aids and materials defined by the assessment conditions (refer to separate inventory and session plans) * Guidance notes |
| Assessor Intervention: | Prior to the assessments, the learners will be orientated to the assessment environment. Learners will be familiarized with:   * the equipment available, * the Assessment environment * the location of commonly used equipment * the facility-specific policies that may impact on the assessment * Software required * Submission procedure   Candidates are allowed to ask questions about any aspects of the assessment environment. The assessors use the full description of the marking criteria to determine whether a performance indicator was demonstrated. An Assessor will speak with the candidate at any time during the Assessment to manage any risks or reasonable adjustments. |
| Reasonable Adjustments: | The types of reasonable adjustment permitted for this assessment item should not affect the standard of skills required in the workplace. Examples of reasonable adjustments in assessments may cover the following;  Teaching Tools & Environment   * substitute alternative tasks * note-taking support * Present information in a range of media * adapt the physical environment and equipment, for example, audio-visual aids, specific furniture * ergonomic chair/desk   Learning Materials   * course material in alternate formats—electronic, large print, braille   Assessments   * Extend or modify timeframes for assessment. * use of laptop for assessments * alternate assessment tasks * Use oral assessments ( presentations, recorded responses, and telephone sessions) as alternatives to written tasks * Provide sufficient feedback on the progress of individual learners regarding their learning goals.   (Note that IIBIT cannot Substitute English to assess the learner.).Please refer Reasonable Adjustment guidelines more details. |

🖎 **Assessment Task 2: -**

**Project Task:**

Students are required to perform the following activities in this assessment task:

1. Prepare a project proposal
2. Prepare a website
3. Test and debug the web document functionality

The project is to assess the skills and knowledge required to develop interactive and engaging website, using a range of features from various, appropriate languages.

**Assessment activity a**

In this assessment activity, you are required to prepare a project proposal. Your project proposal and website must be based upon the following scenario:

*Scenario:*

A well reputed clothing company name **IIBIT Cloths & Accessories** would like an e-commerce Website with checkout facilities, which could be used to e-market all of its range of shirts, t-shirts and pants and associated products including belts, shoes and ties etc. They also require home page, site map, blogs and contact us page on their website.

They have provided you the following instructions to develop the website:

1. They need a universal navigation panel on their website for all web pages.
2. They want you to select a template that complements their business slogan “The best comfortable cloths in the town.” The slogan should appear on each page under the website logo.
3. Images used should be available “free to use” and/or “labelled for reuse” and do not breach any copyright or license.
4. Detailed description for all the services organisation offers need to be included on the respective web-pages. Information on each web-page should be between 200 to 250 words.
5. Checkout requires user to enter their contact information and shipping address.
6. You must include username, email address, password, confirm password, first name, last name, gender, full address including street, suburb, postcode, and state, phone number and submit and reset options.
7. You must provide appropriate validation requirements in terms of characters required for each of the above-mentioned fields.
8. Mouseover and mouse out styles should be included for submit and reset buttons.
9. Assuming your trainer/assessor as the client, you are required to gain client approval on project proposal, development of website and testing and debugging the web document functionality.
10. You must test the website and code in a variety of web browsers for responsiveness and accessibility.

*Requirements:*

Before you develop the website, you must prepare a project proposal. Your project proposal must be approved by your trainer/assessor before you start working on your website.

Your project proposal must determine the following:

* Necessary dynamic functionality required in terms of special purpose tools, equipment and materials, industry software packages, the web server, the client requirements, the security policy, functionality and scope requirements after analysing the requirements mentioned in the scenario.
* Appropriate language required to achieve that functionality
* Prepare a website design brief for each webpage
* Necessary web document requirements
* Website design analysis

The proposal should also contain as a minimum, the following “Project Management Deliverables”:

* Project Charter
* Kick-Off Meeting Minutes
* Stakeholder Analysis
* Preliminary Project Scope Statement and functional requirements
* Level 1 – Work Breakdown Structure (WBS)

You must document your response in the project proposal template provided. (Template 1)

You must speak with your trainer/assessor to confirm project brief and project proposal. You need to:

* Use oral skills to conduct the presentation by discussing the requirements
* Use listening skills to record the responses

You must confirm whether the project proposal have been developed successfully, and to undertake any remedial work based on feedback received from your trainer/assessor. You must submit the copy of your final project proposal to your trainer/assessor for this assessment activity.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Template 1: Project proposal template**  **Purpose**  The purpose of this document is to describe the online car sales website.  **Salesplace**  The working title for the project is thedescription of project which is meant to be a portal selling vehicles.  **Project Charter**  The objective of the Salesplace Project is to provide a powerful tool to help clients to buy or sell vehicles.   |  |  | | --- | --- | | Opportunity | Nowadays, many users struggle to sell their vehicles or to buy a new one. The system will help these users with this task | | Goal | Design a very responsible and attractive vehicle sale website | | In Scope | * Inclusion of new vehicle for sale * Vehicle search * Inclusion of comments in the adds | | Non-Scope | * Feedback about the speaking part – It cold be implemented in the future, but it requires an AI to evaluate the audio and give the feedbacks | | Core team members | * Project manager: Wagner Lopes * Developer: Wagner Lopes * Designer: Wagner Lopes | | Summary | * Start date: 13/10/2020 * End date: 20/10/2020 * Cost estimate: 40 hours | | Technologies | * JavaScript, Bootstrap, JQuery, Express, NodeJS, MongoDB and other libraries | |  |  |   **Project Complexity**  The project should not be complex because the technologies are well known by the development team. Most of the complexity will be embedded into the system stack, which will use common libraries to, for example, manage the database, crease the HTTP server, user interface, cross-browser compatibility, etc. There won’t be complex structures or logic in the initial version of the system.  **Feasibility Statement**  As mentioned before, the development team will use well known technologies, will implement a project to solve a well-known problem and have the financial and institutional support for the implementation, so the project is highly feasible.  **Consultation**   * Kick-Off Meeting Minutes * Stakeholder Analysis  |  |  | | --- | --- | | * Kick-Off Meeting Minutes   20 | * Stakeholder Analysis | |  |  |   **Proposed Scope**   * Signin * Signup * Vehicle registration * Vehicle search * Vehicle discussion     **Assumptions**  The main assumptions are:   * The system must use web technologies * The system will be used on personal computers and smartphones * The system will use JavaScript technologies * The system will store information in MongoDB   **Work breakdown structure**  Salesplace  Vehicle registration  Vehicle Search  Insert Comments  Signup  Signin | | |
| **Approval** | **Trainer Name:** | Md Rajjaqul Haider |
| **Trainer Signature:** | RHaider |
| **Feedback from Trainer:** |  |

**Assessment activity b**

This assessment activity is in in continuation to the previous assessment activity.

In this assessment task, you are required to develop a website.

You must use produce dynamic web pages that include both client and server-side dynamic content to create efficient and effective code to meet technical requirements. Your website should include:

* Web-pages according to the requirements and functionality specified in the project proposal.
* Layout should be consistent and responsive to different viewport sizes
* Main section takes up 80% of the screen width, and the aside section takes up 20% of the screen width.
* Mouseover and mouseout styles have been applied using JavaScript for buttons and links.

|  |  |  |
| --- | --- | --- |
| **Developing the website** | | |
| Client-Side Dynamic Content |  | |
| Server-Side Dynamic Content |  | |
| Main Layout |  | |
| Complete the website | Screen short  Codes | |
| **Approval** | **Trainer Name:** | Md Rajjaqul Haider |
| **Trainer Signature:** | RHaider |
| **Feedback from Trainer:** |  |

**Assessment activity C**

This assessment activity is in in continuation to the previous assessment activity.

In this assessment task, you are required to test and debug the web document functionality in a variety of web browsers (at least three (3)).

Using the project proposal developed in the assessment activity a, you are required to test your website to ensure that all requirements have been met.

You must confirm whether the website and all of its functionalities have been developed successfully, and to undertake any remedial work based on feedback received from your trainer/assessor. You must submit the copy of your website to your trainer/assessor for this assessment activity.

|  |  |  |
| --- | --- | --- |
| **Testing the application** | | |
| Debug Results |  | |
| Testing Results (Test in at least 3 different browsers) |  | |
| Go to <http://validator.w3.org> and validate your website. |  | |
| **Final Approval** | **Trainer Name:** | Md Rajjaqul Haider |
| **Trainer Signature:** | RHaider |
| **Feedback from Trainer:** |  |

**ASSESSOR USE ONLY**

**Assessor Marking and Feedback Form**

Assessor to ensure the evidence supplied is enough to demonstrate satisfactory performance.

**Assessment 2**

| Please tick if the learner completed all the required evidences. Assessor to ensure the evidence supplied is enough to demonstrate satisfactory performance.  Did the learner complete the following? | 1st | | | 2nd | | |
| --- | --- | --- | --- | --- | --- | --- |
| S | NS | | S | | NS |
| **Assessment Task 2: Unit Project (UP) – Part A** | | | | | | |
| Prepared project proposal using the template provided. |  |  |  | |  | |
| Project proposal was based on the client requirements. |  |  |  | |  | |
| Project proposal determined the necessary dynamic functionality required in terms of special purpose tools, equipment and materials, industry software packages, the web server, the client requirements, the security policy, functionality and scope requirements after analysing the client requirements. |  |  |  | |  | |
| Language used was appropriate to achieve the functionality. |  |  |  | |  | |
| Necessary web documents were established. |  |  |  | |  | |
| Website design analysis was conducted and documented. |  |  |  | |  | |
| Project Charter was in line with the specified client requirements. |  |  |  | |  | |
| Kick-off meeting minutes were included in the project proposal. |  |  |  | |  | |
| Stakeholder analysis was conducted and was based on given case study. |  |  |  | |  | |
| Project scope defined the project that will implement, the recommended option and described how the project will be managed |  |  |  | |  | |
| Included any assumptions and scope of project was documented. |  |  |  | |  | |
| Work breakdown structure was effective and was in line with the client requirements. |  |  |  | |  | |
| Confirmed project brief and proposal with the trainer/assessor.   * Used oral skills to conduct the presentation by discussing the requirements * Used listening skills to record the responses |  |  |  | |  | |
| **Assessment Task 2: Unit Project (UP) – Part B** | | | | | | |
| Produced dynamic web pages that include both client and server-side dynamic content to create efficient and effective code to meet technical requirements |  |  |  | |  | |
| Web pages prepared were in accordance with the client specifications and functionality specified in the project proposal. |  |  |  | |  | |
| Layout was consistent and responsive to different viewport sizes. |  |  |  | |  | |
| Website pages main section took 80% of total proportion of the screen and the 20% was kept aside as screen width. |  |  |  | |  | |
| Mouseover and mouseout styles were applied using JavaScript for buttons and links. |  |  |  | |  | |
| **Assessment Task 2: Unit Project (UP) – Part C** | | | | | | |
| Tested and debugged the web document functionality in a variety of web browsers (at least three (3)). |  |  |  | |  | |
| Considered the client requirements when testing the functionality of the website.   * Navigation panels were tested. * Slogan was checked if it appears on each page. * Tested the username, email address, password, confirm password, first name, last name, gender, full address including street, suburb, postcode, and state, phone number and submit and reset options. * Mouseover and mouseout styles were tested for submit and reset buttons. |  |  |  | |  | |
| Confirmed whether the website and all of its functionalities have been developed successfully. |  |  |  | |  | |
| Undertook any remedial work, if required, based on feedback received from your trainer/assessor. |  |  |  | |  | |
| 1st Attempt (Trainer to Tick)  Assessment Outcome: ❑ Satisfactory ❑ NOT Satisfactory | | | | | | | |
| 2nd Attempt (Trainer to Tick)  Assessment Outcome: ❑ Satisfactory ❑ NOT Satisfactory | | | | | | | |
| Trainer Comments | | | | | | | |

**ASSESSOR USE ONLY**

**performance evidence and knowledge evidence**

|  |  |  |
| --- | --- | --- |
|  | S | NS |
| Performance Evidence |  |  |
| Evidence of the ability to: |  |  |
| * produce dynamic web pages that include both client and server-side dynamic content |  |  |
| * create efficient and effective code to meet technical requirements |  |  |
| * test the website and code in a variety of web browsers. |  |  |
| Knowledge Evidence |  |  |
| To complete the unit requirements safely and effectively, the individual must: |  |  |
| * explain web-programming concepts, including:   + authentication and web security   + hypertext transfer protocol (HTTP)   + session management   + stateless programming |  |  |
| * identify and describe internet technologies including:   + programming control structures   + object-oriented programming |  |  |
| * recognise and outline various web browsers. |  |  |
| Foundation Skills |  |  |
| This section describes language, literacy, numeracy and employment skills incorporated in the performance criteria that are required for competent performance. |  |  |
| Reading   * Critically analyses documentation from a variety of sources and records, and consolidates information, to determine requirements |  |  |
| Navigate the world of work:   * Takes full responsibility for following policies, procedures and standards |  |  |
| Writing   * Prepares documentation expressing ideas, explores complex issues, and is constructed logically, succinctly and accurately * Writes and edits computer code, and technical data, to ensure the correct syntax and accuracy |  |  |
| Get the work done   * Accepts responsibility for planning and sequencing complex tasks and workload, negotiating key aspects with others and taking into account capabilities, efficiencies and effectiveness * Applies systematic and analytical decision-making processes for complex and non-routine situations * Uses and investigates new digital technologies, and applications, to manage and manipulate data, and to communicate effectively with others in a secure and stable digital environment |  |  |