**Assessment Coversheet**

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| --- | --- | --- | --- | --- | --- | --- |
| **Student Name** | | Blake McClintock | | **CIT Number** | 215714 | |
| **Competency Title, Code and Banner Code**  **CRN** | | Create Website Testing Procedures  ICTWEB406  INFT510 | | | | |
| **Assessment Type** | | Written  Case Study  Project  Practical  Other | | | | |
| **Assessment Name** | | Task Sheet 7 – Preparation for Testing | | | | |
| **Assessment Date** | | 15th October, 2018 | | | | |
| **Student Statement:** This assessment is my own work. Any ideas and comments made by other people have been acknowledged. I understand that by emailing or submitting this assessment electronically, I agree to this statement. | | | | | | |
| **Student Signature** | | Blake McClintock | | **Date** | 09/10/18 | |
| **PRIVACY DISCLAIMER:** CIT is collecting your personal information for assessment purposes. The information will only be used in accordance with the CIT Privacy Policy. | | | | | | |
| **Assessor Feedback**  ❑ **Student provided with feedback** | | | | | | |
| **Attempt 1** | | **Satisfactory** | **Not Yet** **Satisfactory** | | **Date** | / / |
| **Attempt 2** | | **Satisfactory** | **Not Yet** **Satisfactory** | | **Date** | / / |
| **Assessor Name** |  | | **Assessor Signature** | |  | |
| **Note to Assessor:** Please record any reasonable adjustment that has occurred for this assessment. | | | | | | |
| **Instructions to Assessor**  **Work, Health and Safety**: A work health and safety check of the assessment environment is to be conducted prior to the assessment and any hazards addressed appropriately.  **List the time, materials provided and assessment range and conditions on the next page** These sections should be detailed enough for multiple assessors to consistently implement the assessment and include details of location, time restrictions, level of assistance permitted (if any), WHS, environment protocols, etc. The student should have access to techniques, procedures, information, resources and aids which would normally be available in the workplace. Include if open or closed book. Materials to be supplied may include: assessment paper, site plan, text, internet access, etc. | | | | | | |

**Information for Students:** You may have two (2) attempts for this assessment.

* If your **first** attempt is not successful, your teacher will discuss your results with you and will arrange a second attempt.
* If your **second** attempt is not successful, you will be required to re-enrol in this unit.

Only one re-assessment attempt will be granted for each assessment item. A first submission **MUST** be received on or before the due date in order to be elegible for a re-assessment. Late submissions will not be accepted without valid, accompanying documentation to explain the reason for the late submission.

**Time Allowed**: 1 Weeks

**Materials Provided:**

* Task Sheet 5

**Assessment Range and Conditions**:

This assessment must:

* Be submitted as a single Microsoft Word (or similar) document with necessary images and screenshots embedded
* **Correct grammar, spelling, punctuation and sentence structure must be used at all times**

**Assessment Criteria:** To achieve a Satisfactory result, your assessor will be looking for your ability to demonstrate the key skills/tasks/knowledge detailed in the Assessment Task to industry standard.

**Assessment Task**

Establishing benchmarks allows us to determine the baseline performance characteristics expected from a website or web application. Once we have established a benchmark, we then carry out various tests to determine the accuracy of our expectations and the suitability of the service.

1. **Select an e-Commerce Site**

Choose an e-Commerce site that offers the following options:

* Product search
* Online ordering
* World-wide delivery
* Multiple payment options

You will be using this website in creating and implementing your test plan.

**Provide the name and URL of your chosen e-Commerce site**

Amazon

https://www.amazon.com/

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1. **Establishing Benchmarks for Performance and Usability**

Populate the table below with 3 performance functions and 3 useability functions. You will need to research and establish suitable benchmarks for each function.

|  |  |
| --- | --- |
| **Industry Standards and Functions** | **Benchmarks** |
| **Performance** |  |
| ***Page Load Time*** |  |
| ***Bounce Rate*** |  |
| ***Website Visitor*** |  |
| **Useability** |  |
| ***Navigation*** |  |
| ***Well Written*** |  |
| ***Design*** |  |

1. **Performance Considerations and Terms**

* Populate the following table with the required information:

|  |  |  |
| --- | --- | --- |
| **Term** | **Definition** | **What is it used for?** |
| Queuing Systems | A system that ques visitors or processors | In regards to a website a queing system is positioned in front of a website to contraol the flow of users accessing the website. Its used so that a website doesn’t crash or lose performance when experience a high amount of traffic. |
| Workload Metrics | Workload Metrics are the results of how a system or process handles the work it has been given. | To examine performance and help with improving performance. |
| User Request Classes |  |  |

* Answer the following questions in your own words:
  + What is SGML?

A Standard for defineing structured document types.

How is SGML used?

SGML is used to set the requirements of how markup languages must display data, use characters, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* + Give an example of SGML.

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1. **Improving Performance**

In the table below, you have been provided with three (3) possible techniques for reducing page size and increasing website performance. Complete the following tasks:

* Research the three terms provided and complete the remaining columns in the table.
* Research an additional three techniques for increasing performance and add them to the table, completing all columns.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Technique** | **What is it?** | **How does it help?** | **How is it implemented?** | **What are the possible disadvantages?** |
| **“Keep alive”** |  |  |  |  |
| **Page compression** |  |  |  |  |
| **Expiry header** |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
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| --- | --- | --- |
| **Marking Criteria** | **Evident (✓/🗶)** | **Comments** |
| eCommerce site selected |  |  |
| Three (3) performance benchmarks set |  |  |
| Three (3) usability standards identified |  |  |
| Three (3) usability benchmarks set |  |  |
| Queuing systems defined |  |  |
| Queuing systems usage |  |  |
| Workload metrics defined |  |  |
| Workload metrics usage |  |  |
| User request classes defined |  |  |
| User request classes usage |  |  |
| SGML defined |  |  |
| SGML usage |  |  |
| SGML example |  |  |
| "Keep alive" defined and explained |  |  |
| Disadvantages of "keep alive" |  |  |
| Page compression defined and explained |  |  |
| Disadvantages of page compression |  |  |
| Expiry header defined and explained |  |  |
| Disadvantages of expiry headers |  |  |
| Three (3) techniques added |  |  |
| Definition and explanation of three additional techniques |  |  |
| Possible disadvantages of three additional techniques |  |  |