Assessment Coversheet

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| --- | --- | --- | --- | --- | --- | --- |
| Student Name | | Surovi Sultana | | CIT Number | CIT 059710 | |
| Competency Title, Code and Banner Code  CRN | | INFT269 | ICTWEB429 Create a markup language to specification  INFT832 | ICTWEB505 Develop complex cascading style sheets  INFT831 | ICTWEB506 Create complex web page layouts  INFT789 | ICTPRG502 Manage a project using software management tools  25119, 25120, 25121, 25118 | | | | |
| Assessment Type | | Written  Case Study  Project  Assignment   Other (Simulated Workplace Activity) | | | | |
| Assessment Name | | Assessment 3 – Develop a Website | | | | |
| Assessment Date | | 3 June 2019 | | | | |
| 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 | | Do not complete this if uploading to eLearn | | Date |  | |
| 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 from Assessor: Please record any reasonable adjustment that has occurred for this assessment. | | | | | | |

**Assessment Task Instructions for Students:**

This assessment is a combination of project management as well as developing a website. You will be expected to use software management tools such as GitHub or Trello to manage time and resources, maintain progress and resolve issues so that you can produce a professionally presented website by the deadline.

**Assessment Scenario:**

A list of specifications has been provided (below) to assist you with the creation of your website and all items must be successfully demonstrated. You are to use CSS as fully as possible to ensure consistency across your pages except where the page-specific content varies. Under no circumstances are you to use an automated code generation program (i.e. Dreamweaver or Bootstrap). All coding must be completed using a text editing program (Notepad++, Brackets, or similar) which has been provided for you.

All files must be validated using the W3C validation tools to ensure accuracy and accessibility within your code. All pages must be tested in a minimum of three (3) common browsers to ensure cross-compatibility. Any compatibility issues detected or differences in display/layout should be noted and described in the table provided; if none are found enter “No Issues Detected”.

**Time Allowed**: 5 weeks

**Assessment Range and Conditions**:

* This assessment is group work
* All coding must be completed using a text editing program such as Notepad++ or Brackets
* Commercial development programs (e.g.: Dreamweaver) are not to be used to produce any part of this assessment.
* What You See Is What You Get editors (e.g.: Wix or Amaya) are not to be used to produce any part of this assessment.
* Pre-defined code templates (e.g.: Bootstrap) are not to be used to produce any part of this assessment
* Professional presentation is essential

**Code Formatting Principles**

* Use blank lines to organise your code
* Properly tab (indent) your code
* Use comments where required
* Correct spelling, grammar, and sentence structure is to be used throughout

**Materials Provided:** Assessment task,website specifications, website wireframes

**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.

**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. To be eligible for a re-assessment attempt a first submission must be received on or before the due date. Late submissions will not be accepted without valid accompanying documentation to explain the reason for late submission.

**Section 1** Project Management

1. Which software development methodology has your team decided to use? Outline and describe the reason for your choice. *(Maximum 100 words)*

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| --- | --- |
| **Chosen Methodology** | **Agile**   * Agile Methodology is largely used in ICT projects; it gives an opportunity for the teams deliver the product to the customer as it goes on. * It can also provide the option to change the requirements as per the customer’s needs and wants.   During the lifecycle of the project PMs and all the stakeholders can regularly see the project outcomes and the progress of the project. |
|  | |

1. List three project management tools that can be used for this project.

|  |  |  |  |
| --- | --- | --- | --- |
| **Tool Name** | **Tool URL** | **Pros** | **Cons** |
| Trello | <https://trello.com/en-AU> | * trello is responsive to any size of screen. * Real time updates is amazingly fast. * It has a project dashboard and can see the necessary items on one page. * Creating issues and assigned someone to those issues are simple and easy. * Adding new member is easy   (Griffin, 2014) | * No gantt (project bar chart) * Can’t write documents or wiki about boards, only simple description. * No calendar. |
| GitHub | <https://github.com/> | * Maintain distributed code contributors to a centralized repository. * Visualize the changes made along with contributor's ID. * Easy to deploy code from GitHub repo to production boxes. * Blame/raw features are unique in GitHub.   (Tantano, 2018) | * Making changes for the historic commit is difficult. * Cannot load more than 100 MB of data at once. * Contributions to the private repositories are not accounted as expected. |
| nTask Manager | <https://www.ntaskmanager.com/> | NTask is easy to set up, easy to understand and perfect for setting up checklists and to-dos across teams.  It has Gantt chart.  Meeting management and calendar is available to use. | Every aspect of this application has made me move towards productivity.  Calendar view is not very easy to customise. |

1. Which project management tool are you going to use and why? If you have chosen multiple tools list them all and explain why your group has decided to use them. **Make sure the tool(s) can determine source control as well as handle conflicts and collaboration**

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| --- | --- |
| **Chosen Tool(s)** | GitHub |
| GitHub is a very widely used and a versatile tool, especially for working on projects of various size, and for web work flows. We can use it for publishing individual works as a version control system and can also make use of its collaborative functionalities. | |

1. Create a project plan according to the software requirement specifications (base the plan on the requirements you have gathered from your software requirement specifications).

|  |
| --- |
| ***Insert a copy or a screenshot of your plan here*** |

1. Define the source control procedures.

|  |
| --- |
| We have used GitHub repository for the source control. Individuals worked in own branches to commit their files. A pull request has been created to merge from individual branches to the master branch. An approval procedure can be sorted out before the merge can be confirmed. Therefore the master repository contains a clean and approved version of the files. |

1. Use your project management tool to create a collaboration environment.

|  |
| --- |
| ***Insert a screenshot of your collaboration environment here*** |

1. Upload your project to your collaboration environment

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| --- |
| ***Insert a screenshot of you successfully uploading your project to your collaboration environment here*** |

1. Monitor and adjust the project plan to maintain progress according to the project plan

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| --- |
| ***Insert a copy or a screenshot of your adjusted plan here*** |

1. Monitor the collaboration environment and resolve issues where required.Any issues that required attention should be recorded in the table below.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Date Raised** | **Raised By** | **Description** | **Impact** | **Outcome** | **Date Resolved** |
| *23/01/19* | *Emp123* | *All files in collaboration environment corrupt.* | *Critical* | *Collaboration environment restored from backups before file corruption was identified* | *23/01/19* |
| 30/05/19 | MDY | Media Print not working in external CSS file | Medium | Printing layout includes all un-neccessary content | 01/06/19 |

**Section 2** Specifications

**General Specifications**

1. The overall layout of your website must closely mirror the wireframes from Assessment 1.
   * **NOTE**: You may only use a set of wireframes if they have been marked as Satisfactory
2. Your website must consist of a minimum of four (4) pages
3. Markup language chosen must be suitable for the project
4. All markup and CSS files must be stored in the parent folder. Images must be stored in a separate folder inside the parent folder
5. All markup and CSS files must be thoroughly commented
6. All markup and CSS files must successfully validate in tools provided by the World Wide Web Consortium without errors
7. Suitable code formatting principles (e.g. indenting) must be applied.
8. All pages must be professionally finished. For example;
   * Layout items must not be left-aligned
   * Left and right margins are equal
   * Suitable images have been used
   * Suitable fonts have been used
   * Layout items float to the centre of the page
9. You must use a combination of markup elements and CSS to create your website layout. You may not use tables.

**Markup Specifications**

1. The main page of the website must be indicated with the appropriate filename (i.e. home or index)
2. All other pages of the website must have appropriate filenames
3. All markup documents must have the appropriate file extension for the markup language (e.g. \*.css)
4. One page must have a minimum of four (4) layout areas
5. All markup document titles must be meaningful and consistent
6. All markup documents must have a doctype declaration
7. All markup documents must have a UTF-8 character set declaration
8. All markup documents must link to an external CSS file
9. One page must contain an image gallery
10. One page must contain a responsive form with the following fields as a minimum
    * Name
    * Address
    * Phone
    * Email
    * Comments/Enquiries
11. Navigation must be consistent across all markup documents
12. All markup documents must contain at least one (1) image **or** video
    * All images must have the alt attribute applied
13. At least one page must contain a list
14. At least one page must contain a responsive table
    * The table must contain one instance of row or column spanning
15. At least two instances of nested elements

**Style Specifications**

1. Your website must only use one (1) external CSS file
2. Your CSS file cannot have superfluous rules
3. The significant majority of styling must be defined in your external CSS file
4. You must implement at least one (1) embedded style sheet that overrides style(s) in the external sheet
5. You must implement at least one (1) inline style sheet that overrides style(s) in the external sheet
6. You must use at least three (3) markup language level selectors
7. You must use at least three (3) ID selectors
8. You must use at least three (3) class selectors
9. You must use at least three (3) pseudo selectors
10. Your website must respond to a minimum of four (4) different device sizes
11. Your website must have a layout that is suitable for printing
12. An additional style requirement specified by the teacher

**Additional Requirement: Poppins-Regular.woff2** font

**Section 3** Website Accessibility and Compatibility

**Testing Browsers**

You will need to test your website in a minimum of three (3) browsers to attempt to discover any cross-browser issues. List the browers that you have used for testing.

* + **Browser 1**: Microsoft Edge
  + **Browser 2**: Google Chrome
  + **Browser 3**: Internet Explorer

**Testing Resolutions**

You will need to test your website at a minimum of four (4) screen resolutions to confirm the responsiveness of your website. List the resolutions that you have tested your website at.

* **Resolution 1**: 321 Small Phone
* **Resolution 2**: 481 iPad
* **Resolution 3**: 767 iPad Pro, Small Computer Screen
* **Resolution 4**: 1200 Computer Screen

**Test Results**

Any compatibility issues detected or differences in display/layout should be noted and described in the table provided below. An example on how to complete this table has been provided to you. If no isses are detected enter “No Issues Detected” in the table.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Date Raised** | **Raised By** | **Description** | **Impact** | **Resolution** | **Date Resolved** |
| *23/01/19* | *Tuggeranong Campus* | *Content text colour incorrect* | *Medium* | *CSS modified to replicate correct colour* | *23/01/19* |
|  | No issue | No issue | No Issue | No issue |  |

**References**

Griffin, K 2014, *The Pros and Cons of Trello*, Project Managers, last accessed 22 May 2019, <http://www.projectmanagers.net/i/the-pros-and-cons-of-trello/>

Tantano, P 2018, *GitHub Pros and Cons*, TrustRadius, last accessed 22 May 2019, <https://www.trustradius.com/reviews/github-2018-03-20-10-27-08>

| **Marking Criteria** | **Evident**  **(✓/✘)** | | **Comments** | |
| --- | --- | --- | --- | --- |
| **SECTION 1**  Project Management | | | | |
| Software development methodology chosen | |  | |  |
| Explanation for choice given | |  | |  |
| Three (3) project management tools researched | |  | |  |
| Project management tool(s) chosen according to software requirement specifications | |  | |  |
| Source control prodecures defined | |  | |  |
| Collaboration environment created | |  | |  |
| Project plan monitored and adjusted to ensure project progresses according to plan | |  | |  |
| Code correctly entered in to the source control system | |  | |  |
| Collaboration environment monitored and issues resolved | |  | |  |
| Issues are listed in provided table | |  | |  |
| **SECTION 2**  Specifications | | | | |
| Overall layout closely mirrors wireframes from previous assessment |  | |  | |
| Website consists of at least four (4) pages |  | |  | |
| Markup and styling languages chosen for project are suitable to the project |  | |  | |
| All markup and styling files are stored in the parent folder. Images are stored inside a separate folder. |  | |  | |
| Thorough commenting has been used |  | |  | |
| All markup and styling files must validate in W3C tools |  | |  | |
| Code Formatting Principles have been applied to project |  | |  | |
| All pages have been professionally finished |  | |  | |
| Main page of website is indicated by appropriate filename (home or index) |  | |  | |
| All other pages have appropriate filenames |  | |  | |
| All markup documents have appropriate file extensions |  | |  | |
| One page contains at least four (4) layout areas |  | |  | |
| All markup document tiles are meaningful and consistent |  | |  | |
| All markup documents have a doctype declaration |  | |  | |
| All markup documents have a UTF-8 character set declaration |  | |  | |
| All markup documents link to an external styling file |  | |  | |
| At least one page contains an image gallery |  | |  | |
| At least one page contains a responsive form with the following fields as a minimum   * + Name   + Address   + Phone   + Email   + Comments/Enquiries |  | |  | |
| Navigation must be consistent across documents |  | |  | |
| All documents have at least one video or image |  | |  | |
| All images use the alt text attribute |  | |  | |
| At least one page contains a list |  | |  | |
| At least one page contains a responsive table |  | |  | |
| At least two instances of element nesting present |  | |  | |
| Website uses one (1) external styling file |  | |  | |
| Styling file does not have superfluous rules |  | |  | |
| Significant majority of styling defined in external styling file |  | |  | |
| At least one (1) embedded styling sheet overriding external style rules present |  | |  | |
| At least one (1) inline styling rule overriding external style rule present |  | |  | |
| At least three (3) element level selectors present |  | |  | |
| At least three (3) ID selectors present |  | |  | |
| At least three (3) class selectors present |  | |  | |
| At least three (3) pseudo selectors present |  | |  | |
| Website responds to at least four (4) screen sizes |  | |  | |
| Website has a layout suitable for printing |  | |  | |
| Additional style requirement gathered from teacher and implemented |  | |  | |
| **SECTION 3**  Website Accessibility and Compatibility | | | | |
| Website tested in a minimum of three (3) browsers |  | |  | |
| Website tested at a minimum of four (4) resolutions |  | |  | |
| Cross browser compatibility issues have been recorded |  | |  | |