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ACHIEVEMENT EXEMPLAR 2022

2



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

QUALIFY FOR THE FUTURE WORLD
KIA NOHO TAKATŪ KI TŌ ĀMUA AO!

COMMON ASSESSMENT TASK

Level 2 Digital Technologies and Hangarau Matihiko 2022

91899 Present a summary of developing a digital outcome

Credits: Three

Achievement Criteria		
Achievement	Achievement with Merit	Achievement with Excellence
Present a summary of developing a digital outcome.	Present an in-depth summary of developing a digital outcome.	Present a comprehensive summary of developing a digital outcome.

Type your School Code and 9-digit National Student Number (NSN) into the space below. (If your NSN has 10 digits, omit the leading zero.) It should look like “123-123456789-91899”.

-91899

Answer ALL parts of the assessment task in this document.

You should aim to write **800–1500 words** in total.

Your answers should be presented in 12pt Times New Roman font within the expanding text boxes.

The only resource you may access during this assessment is your digital outcome for reference only. The three images you prepared in advance are the only information you may copy and paste into this assessment. No other internet access is permitted.

Save your finished work as a PDF file with the file name used in the header at the top of this page (“SchoolCode-YourNSN-91899.pdf”).

By saving your work at the end of the examination, you are declaring that this work is your own. NZQA may sample your work to ensure that this is the case.

INSTRUCTIONS

The task in this assessment requires you to discuss a digital outcome you developed within the past 12 months.

You should illustrate your answers with three images you have prepared in advance:

- a single image of the digital outcome (e.g. a website, a poster, an electronic device)
- a single image showing a relevant digital component of the outcome in the software used to create it (e.g. the HTML / CSS for a website, the “layers” view of a poster, source code, a CAD / CAM file)
- a single image of the planning / development process (e.g. agile development, a planning chart).

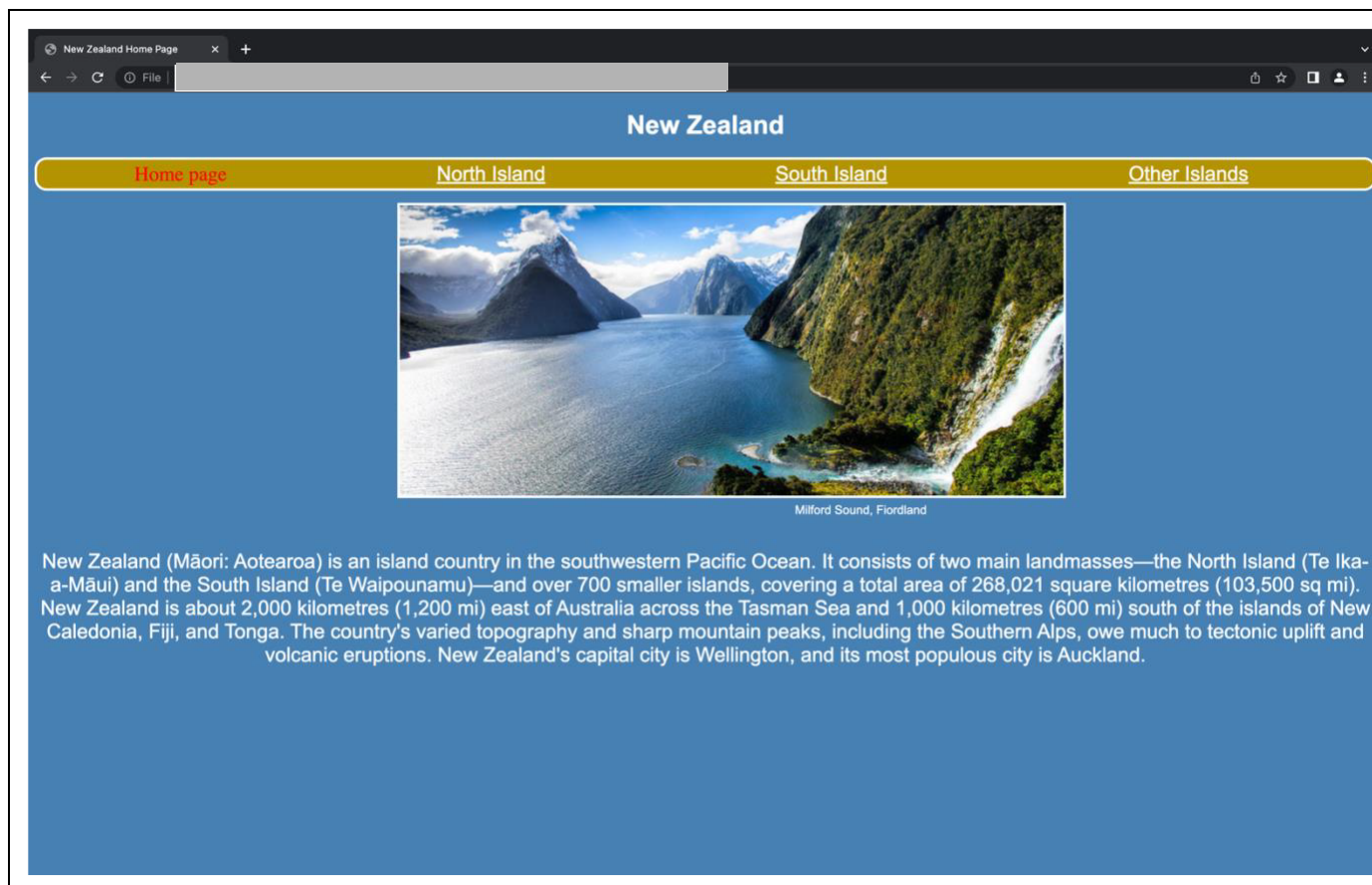
During this assessment, you may access your digital outcome for reference only. The three images you prepared in advance are the only information you may copy and paste into this assessment. No other internet access is permitted.

Read all parts of the task before you begin.

ASSESSMENT TASK

Your outcome


- (a) (i) Insert the image you prepared of the digital outcome (e.g. a website, a poster, an electronic device).



- (ii) Explain the purpose of your digital outcome.

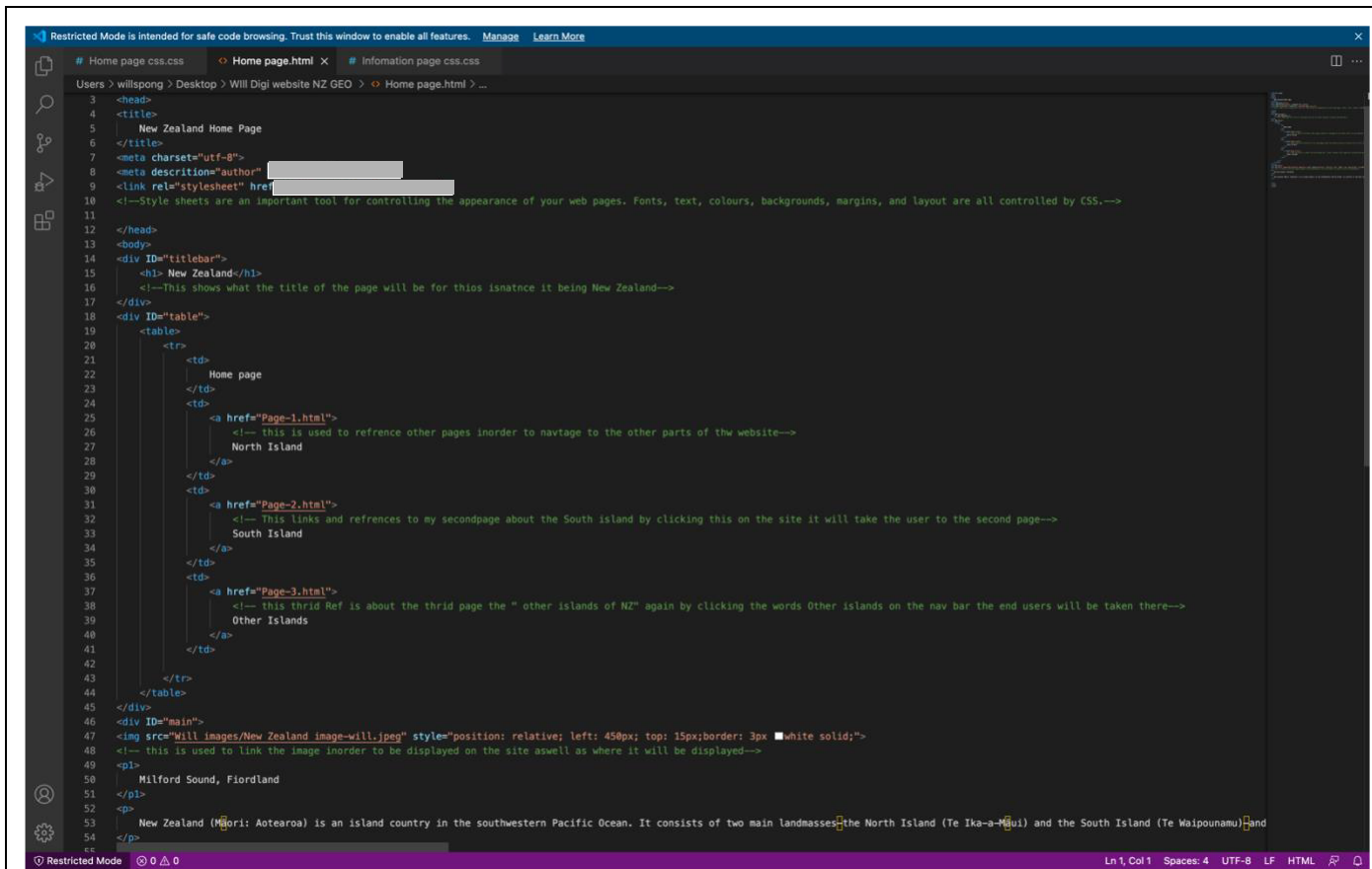
The purpose of the outcome was to create a New Zealand Geographical website for middle school students

- (iii) Describe what your digital outcome looks like and how it works.



The digital outcome looks like a basic website with clear headings along the search bar used for navigation between the different pages on the site. Each page centers around the different islands of NZ, with the North Island, South Island and Stewart Island. Each of the page features a large image correlating to what part of NZ the page is focused on, and a brief description and summary of the geographical concepts and features that make up the lands. My website works as follows. If you were to click on each heading i.e the North Island you would be taken the information page of the north island and the heading would go red signifying and telling you that you are on said page. This works the same for each page

- (iv) Insert the image you prepared of a relevant digital component of the outcome in the software used to create it (e.g. the HTML / CSS for a website, the “layers” view of a poster, source code, a CAD / CAM file).



The screenshot shows the Visual Studio Code editor with a file named 'Home page.html' open. The code is HTML, starting with a head section containing a title 'New Zealand Home Page', a meta charset of 'utf-8', and a meta description. A link to a stylesheet is included. The body contains a title bar with the text 'New Zealand', followed by a table with three rows of links: 'Home page', 'North Island', and 'South Island'. Below the table is a main content area with a placeholder for an image and a paragraph about New Zealand (Māori: Aotearoa).

```
<!-- Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn More -->
# Home page.css # Home page.html # Information page.css
Users > willsporg > Desktop > Will Digi website NZ GEO > Home page.html > ...
3 <!--
4 <!--
5 | New Zealand Home Page
6 </title>
7 <meta charset="utf-8">
8 <meta description="author">
9 <link rel="stylesheet" href="
10 <!--Style sheets are an important tool for controlling the appearance of your web pages. Fonts, text, colours, backgrounds, margins, and layout are all controlled by CSS.-->
11
12 </head>
13 <body>
14 <div ID="titlebar">
15 <h1> New Zealand</h1>
16 <!--this shows what the title of the page will be for this is natnce it being New Zealand-->
17 </div>
18 <div ID="table">
19 <table>
20 <tr>
21 <td>
22 Home page
23 </td>
24 <td>
25 <a href="Page-1.html">
26 <!-- this is used to reference other pages inorder to navtage to the other parts of thw website-->
27 North Island
28 </a>
29 </td>
30 <td>
31 <a href="Page-2.html">
32 <!-- This links and references to my secondpage about the South Island by clicking this on the site it will take the user to the second page-->
33 South Island
34 </a>
35 </td>
36 <td>
37 <a href="Page-3.html">
38 <!-- this thrid Ref is about the thrid page the " other islands of NZ" again by clicking the words Other islands on the nav bar the end users will be taken there-->
39 Other Islands
40 </a>
41 </td>
42 </tr>
43 </table>
44 </div>
45 <div ID="main">
46 
47 <!-- this is used to link the image inorder to be displayed on the site aswell as where it will be displayed-->
48 <p>
49 Milford Sound, Fiordland
50 </p>
51
52 <p>
53 New Zealand (Māori: Aotearoa) is an island country in the southwestern Pacific Ocean. It consists of two main landmasses, the North Island (Te Ika-a-Māui) and the South Island (Te Waipounamu) and
54 </p>
55 </div>
```

- (v) What software did you use to create the digital components of your outcome? How suitable was this software? You may include more than one software in your answer.

The software I used to create and develop my digital outcome was Visual studio code, at the beginning of the process I was recommended to different programs from my peers. Visual studio and brackets after playing around with both for a significant amount of time I decided that I would continue with visual studio due to the fact I thought it was more intuitive and it felt cleaner and more refined. This software was more suitable for me as the prompts it gave truly helped me out. Even though I was a beginner when it came to coding of any kind especially HTML. Visual studio code made it possible and easy enough to create my digital outcome with it drop down menus of different codes which I used to get me going as well as picking up any errors within the code that I had incorrectly typed or formatted wrong

(vi) What were the TWO most important requirements of your digital outcome?

In your answers you should:

- explain what the requirements were
- explain why they were important
- explain how you implemented these requirements
- give specific examples of how these link to the digital components.

Requirement 1: Code

Response

The code of the website is crucial to the final outcome as the code is the building blocks of the website itself. Without the code there is no Digital outcome and nothing to show for, by implementing the code I was able to start building the website from the ground up with the help of Visual studio to which it was developed and ran the code. The code is somewhat of the most important part of the creating the digital outcome. As each line of code typed resulted in the formatting and structure of the website itself. Meaning with more and more code such as <head>, <title>, <body> etc. the digital outcome came closer and closer to completion. With the information being coded in, the result of it would show once being run. Adding to the website in not only looks but function as well.

Requirement 2: planning

Response

The planning of the website/digital outcome was used every day to get plan and get ready for the final design and the code of the site. By carefully going over each step such as drawing up drafts for the intended look. As well as fonts that would be used on the site itself, the planning enabled me to think logically on each part that made up the outcome. Such as who would be the target audience, and what was the site going to be and include what steps would I take to get there. The planning enabled me to take the Digital outcome step by step until completion. As without the planning I would be lost with no clear indications on what I should be doing or following along with. Thus the outcome most probably would come out unfinished or far less refined. Thus the planning was a crucial part in the creation of the digital outcome.

- (vii) What were TWO relevant implications you chose from legal, future-proofing, or end-user considerations?

In your answers you should include:

- why the implication could impact your outcome
- what you included in your outcome to address the implication.

Relevant implication 1: future proofing

Response

Future proofing relates to how easy it is to add future information within the site for it to stay relevant. This implication could affect my site within the needs of data and information on the outcome. However, all the data and information relating to geographical feature of the land will most likely stay the same for hundreds of years to come. But population data can change quite drastically in small amount of time for example Christchurch may experience unprecedented amounts of growth de throning Auckland for the most populated city. Thus, my information stated on my website will be wrong and outdated thus rendering incorrect. As a result, in order to address this implication, I have put comment's all throughout the code on my page relating to what each part means. This is done with the HMTL code of `<!-- --!>` which means comment, all the information put within the brackets is only visible in the coding of the program and is not what is showed on the final product. Because of this I will be able to come back and change the outdated data in all the necessary spots where I have stated to do so. As a result, the site can get back up and running with ought to much trouble as all the necessary changes and fixes are clearly marked within the code.

Relevant implication 2: End user considerations

Response

End user considerations relates to how the End user will use and experience the page developed. In my case the end user was middle school students therefore the language through ought the site must be somewhat basic. So that students of that age would be able to follow and retain information from within, not only the langue but the formatting and the images must be clear and concise as well. So that it would be able to keep middle schoolers engaged and entertained when on the outcome. As a result, when developing the website I had to ensure there were not huge long winded words that the middle schoolers wouldn't understand. As they would be left wondering what something meant, further more in order to address the implication I used basic earthy tones and color's within the website to add a fun aspect to the digital outcome in order to combat the implication of end user



consideration.

Development process

- (b) (i) Insert the image you prepared of your planning / development process (e.g. agile development, a planning chart).

Planning your Solution

Asset management
Complete the page plan table. (Minimum of 4 HTML pages and 1 external stylesheet)

File name	Title (title tag)	Purpose of the page
Home page	Home	The first page my (Home page) will be used to give an introduction to the website and what the rest entails it will give a brief introduction about New Zealand's and its Geographical features.
North island	North island	The first page will be on the north island of New Zealand and will be a discretion of the wonders it possesses such as bay of islands to rangitoto then taupo.
South island	South island	The second page will be another description on New zealand and its wonders but this page is focused on the south island i.e kaikoura southern alps and milford sound.
Other islands	Small islands	The third page is about New Zealand and its much smaller islands such as stewart island, poor knight and chatham island and we will elaborate on each as well on the underwater geology

Folder name	Purpose and Content
Home page	Contains all images and information to do with the home page, including the script.
Info page	Like the home page this folder will contain all images and information for the three information pages, and the script for these three pages.
Img page	This folder will be used to store all images I've used or plan to use for the website.

- (ii) Briefly explain the development process.

This part of my planning directly relates to how the pages within the digital outcome will not only be structured and formatted but also what kind of information and data it will hold. The home page: as stated above (Homepage) Will be used to give an introduction to the website and what the rest entails. By describing Vital information about NZ and its landmass as well as featuring the specific Māori names of each Island and a base overview of NZ topography. The second page being north island will be used to tell the end user of the geographical feature of Te ika-a-māui (the north island) (the fish of Maui) as well as information relating to its population and main cities. The third page is situated on the south island its land mass, geographical features and topography, such as its highest mountains and glaciers. The fourth and final page is about the other islands of NZ such as Stewart island or (Rakiura) and its geographical features and topography as well as its underwater geology and geography such as its marine reserves.

- (iii) Explain TWO decisions you made during your development process and judge how well each decision was carried out. Explain how they affected / impacted your outcome.

Choose your TWO decisions from the list below:

- which experts to work with (when and why)
- how you project-managed your project
- the design process you followed
- the testing and trialling you did with certain people or groups
- specific tools and techniques used within the software chosen to develop the digital component.

Decision 1: Testing and Trialling

Response

Towards the end of the digital development of my website I used my peers and family to test and trial what they thought of the website itself. For example, I sent out the link to my cousin [REDACTED] who is a 12 year-old middle schooler. This was extremely helpful and important when it came to making changes and alterations within the website itself. As I was getting direct feedback from someone in my intended demographic and target audience, [REDACTED] was able to give me feedback relating to the information and visual aesthetics of the page. I remember he stated that the original site was to be boring and wasn't a fan of the original color (which was forest green) and he believed the words to be too complex and difficult. As a result, of the feedback from my target audience I was able to make alterations to my page which included a more basic set of terminology and color of the background as this would hopefully better the end result within my target market.

Decision 2: The design process I followed

Response

When researching and planning for what the end result of digital outcome would look like. I searched for similar websites as my own, like Geographical and nature sites. To which I found and concluded that much of these websites featured earthy color's and tones for things such as their backgrounds and backdrops. As well as fonts and ink types. I concluded that I would somewhat follow along with the idea of nature focused. To which I came to the conclusion I would have a forest green background and blue colored search bar to which was later changed to Light-green almost moss colored search bar and light-blue background. I Believed these new color's fit my aesthetic of the page better as NZ is an island nation surrounded by the ocean as well as the moss green fits into out native flora and fauna of the country. The design process of others greatly helped inspire me to create the website of my own through color and aesthetics.

- (iv) Based on what you learnt through the decisions discussed above, explain and justify what changes you would make to your development process, and how these changes could further improve the quality of your outcome.

I could have had more testing and trialing with more people such as teachers and other experts in the field. As this would have granted me the opportunity to improve not only the look and visuals of my page but my code to. As it was indeed somewhat basic and could have been improved to create a more digitally in-depth website and final result which more in depth feature such as slideshow presentation of images on each page as a result on not seeking further help and guidance I was unable to create and implement code that would enable me to do so.

Achievement Exemplar 2022

Subject	Digital Technologies Level 2		Standard	91899	Total score	04
Q	Grade score	Annotation				
(a) & (b)	A4	<p>At Achieved level 04 it is evident the candidate has used a suitable software to develop a digital outcome (website) that is at Level 7 of the NZ curriculum.</p> <p>The candidate shows a good understanding of the key aspects within the project. They have succinctly described the outcome and purpose. The candidate has undertaken some form of developing their website, although there doesn't appear to be much depth to this. They are able to explain their decisions and have included a specific example for each.</p> <p>The candidate does not select requirements that relate to the outcome itself or give detailed explanations of the relevant implications selected to move into the Merit band. The planning and HTML & CSS used are not classed as requirements. Planning relates to development process rather than the digital outcome itself and using HTML & CSS is a necessity when developing a website. Instead they could have discussed the functionality of the website and some of the specific code written for a feature of their site; the layout, structure, galleries etc., and this may have moved them into the Merit band. There is not enough depth in the response for the relevant implications selected and end-user implication covers aspects already written about in decisions.</p>				