

No part of the candidate's evidence in this exemplar material may be presented in an external assessment for the purpose of gaining an NZQA qualification or award.



## Level 1 Digital Technologies 2024

92007 Design a digital technologies outcome

# EXEMPLAR

Excellence

TOTAL 07

### **Instructions**

This assignment requires you to prepare a report in which you discuss the design for a digital technologies outcome you have completed this year.

You should support your answers with a minimum of five images that you have prepared (JPG or PNG).

Your set of images should include:

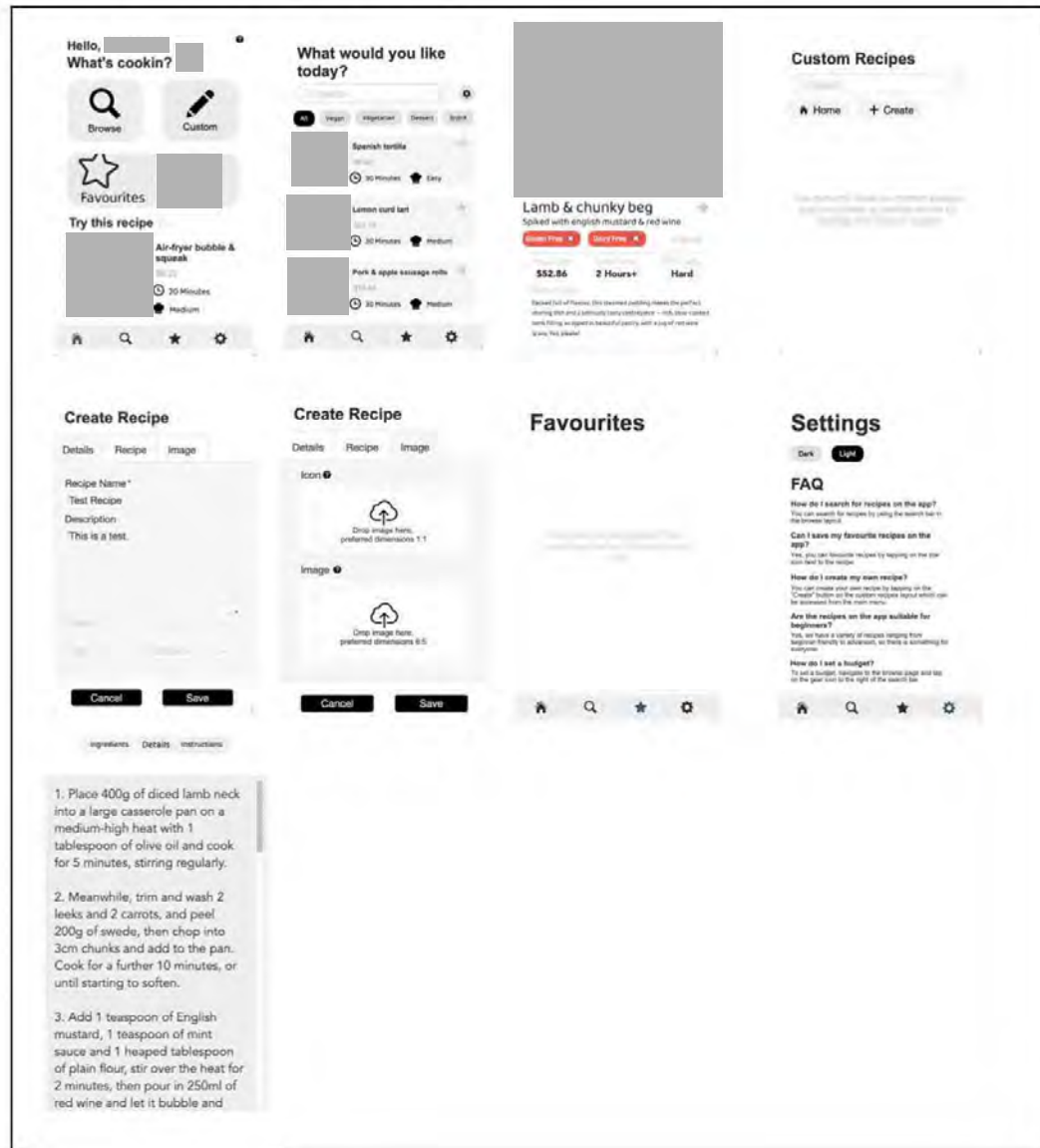
- at least one image showing your final design; if the final design has multiple pages, such as a website/brochure or app, then more than one image is recommended; a collage may be created
- at least one image showing your design ideas
- at least one image showing examples of refining your design
- at least one image showing how feedback was used to improve your design
- at least one image of your design that you chose to use to support your description of manaakitanga (kindness and respect for others) or kaitiakitanga (protecting and looking after the environment).

Read all report prompts before you begin.

## REPORT

Describe a design for a digital technologies outcome you have worked on this year.

(a) (i) Insert a screenshot(s) of your final design.



(ii)

Your design is intended to meet a need or opportunity. Describe this need or opportunity.

As students transition from school to employment or university, many face the challenge of cooking for themselves for the first time. Finding nutritious, affordable, and easy-to-make recipes can be overwhelming, whether using cookbooks or searching through online resources. This issue particularly affects students living away from their families, as they often lack prior cooking experience. For many college students, cooking isn't a priority due to demanding schedules and tight deadlines, making it difficult to find the time or energy to prepare their own meals. This design addresses these challenges by providing an accessible platform where users can quickly search for recipes that suit their budget and dietary needs. It makes the process of meal planning more efficient, helping students manage both their time and finances more effectively.

- (iii) List the potential user(s) of your digital technologies outcome and describe some of their specific requirements.

The primary users are students who have recently left school and are learning to cook independently. Their requirements are easy-to-follow recipes, affordable ingredients, and minimal preparation time, given their limited experience and busy schedules. These users may also need tools to help with filtering, budgeting, and dietary tracking to accommodate for both time and financial constraints. Other potential users may include people from diverse cultural backgrounds (or vegetarians / vegans) who might look for recipes that reflect their culinary heritage or accommodate specific dietary practices. These users may require the option to filter meals by cuisine type, dietary restrictions (e.g., vegan, or gluten-free), or ingredient availability.

- (iv) Describe how you used the principles of manaakitanga (kindness and respect for others) OR kaitiakitanga (protecting and looking after the environment) in your design process. Use specific examples.

I used the principles of manaakitanga by making sure that my design promotes inclusivity, accessibility, and respect for the needs of all users. For example, I included a wide variety of recipe options that cater to different dietary requirements, such as vegetarian, vegan, dairy-free, and gluten-free meals, to make everyone feel welcome and valued. I also considered users who may not have much cooking experience by using step-by-step instructions, and simple ingredient lists to make sure they feel supported and not overwhelmed.

## Spanish tortilla




### A Spanish Classic

Gluten Free ✓



Dairy Free ✓

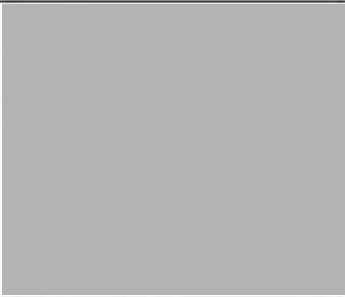
6 Serves

(v) Insert **two or more** screenshots to illustrate how your ideas developed throughout the design process.

Screenshots	Description of progress demonstrated by the screenshots
	<p>I will show how my ideas developed on the recipe page through several screenshots.</p> <p>The first screenshot shows the concept design for the recipe page. I aimed to keep it simple and compact, fitting everything on one page. This was based on Nielsen's heuristic of "Aesthetic and Minimalist Design" to avoid overwhelming the user when they enter the page.</p> <p>In the second screenshot, I put the concept design into practice. However, due to the software's limitations (having a scrollable page creates complications for other devices), I had to make changes. For example, I added a favourite button and split the ingredients and instructions onto a separate page. While this was necessary, it wasn't very user-friendly because it forced users to switch pages, interrupting their flow. The button</p>



 <p><b>Spanish tortilla</b> A Spanish Classic</p> <p>Gluten Free Dairy Free</p> <p>\$8.40 30 Minutes Easy</p> <p>This classic Spanish dish is very versatile and quick to whip up. The tortilla (or Spanish omelette) can be served hot or cold and is a fantastic way of using up all kinds of ingredients – simply add in any leftover vegetables. They'll all taste great, so get experimenting!</p>  <p><b>Spanish tortilla</b> A Spanish Classic</p> <p>Gluten Free Dairy Free</p> <p>\$8.40 30 Minutes Easy</p> <p>This classic Spanish dish is very versatile and quick to whip up. The tortilla (or Spanish omelette) can be served hot or cold and is a fantastic way of using up all kinds of ingredients – simply add in any leftover vegetables. They'll all taste great, so get experimenting!</p>	<p>design also needed improvement, as its placement and colour didn't feel natural.</p> <p>In the third screenshot, I made changes that align with manaakitanga. I added clear visual labels to indicate whether the recipe is "Gluten-Free" or "Dairy-Free." This shows care and inclusiveness by ensuring that users with dietary restrictions feel considered. The ingredients and instructions button was removed as I planned to simplify the design further.</p> <p>By the fourth screenshot, the design was much more refined. I introduced a tab system that allows users to easily switch between viewing ingredients and instructions without having to leave the page. I also added information on how many servings the recipe makes, which contributes to manaakitanga by helping users plan for the needs of others when sharing food. However, I wasn't satisfied with the look</p>
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 <p><b>Spanish tortilla</b> A Spanish Classic</p> <p>Gluten Free ✓ Dairy Free ✓</p> <p><b>\$8.40</b>   <b>30 Minutes</b>   <b>Easy</b></p> <p>This classic Spanish dish is very versatile and quick to whip up. This tortilla (or Spanish omelette) can be served hot or cold and is a fantastic way of using up all kinds of ingredients – simply ask for any leftover vegetables. They'll all taste great too you!</p>	<p>of the tab control, especially the rounded edges in the middle tab, and the “Home” and “Search” buttons still needed work.</p> <p>In the final screenshot, I made small but important changes. I fixed the tab control to make it more visually appealing, and I added text to the buttons on the left side (such as “Return” and “Home”) so users can clearly understand their function. The buttons were also rounded to make the design more polished and welcoming, which ties back to manaakitanga by making the user feel welcome and included.</p>
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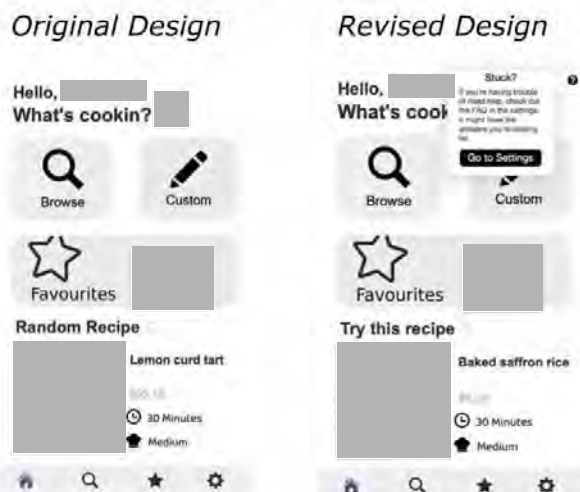


## Refining your design

It is important to use whakawhiti kōrero (feedback) to improve a design. Provide TWO specific examples where feedback led to significant improvements in your design. Add screenshots to support your answers.

(b) Example (1)

There were two users who tested my app and provided whakawhiti kōrero (feedback). The first user provided me with the following suggestions to improve the design:



**whakawhiti kōrero (feedback):** Use "Try this recipe" instead of "Random Recipe". Add a FAQ somewhere with easy navigation to it.

**Modifications made (as a result of the feedback):** I replaced "Random Recipe" with "Try this recipe" and I added an FAQ section in the settings and a help button on the main menu to guide users there directly.

## Example (2)

The second user provided the following suggestions for the design on the create custom recipe page:

### Original Design (Two Pages)

The original design consists of two separate screens. The first screen, titled 'Create Recipe', has a 'Recipe Name' input field at the top, followed by an 'Overview' section with a large text area, and a 'Description' section with another large text area. At the bottom is an 'Image and Thumbnail' section with two image input fields. The second screen, also titled 'Create Recipe', has a 'Time' input field and a 'Difficulty' dropdown menu at the top, followed by a 'Cost (numbers only)' input field. Below these are 'Ingredients' and 'Instructions' sections, each with a large text area. At the bottom are 'Return' and 'Save' buttons. Both screens have a bottom navigation bar with icons for home, search, star, and settings.

### Revised Design

The revised design is a single screen titled 'Create Recipe'. It features a tab control at the top with three tabs: 'Details', 'Recipe', and 'Image'. The 'Details' tab is currently selected. Below the tabs are two image input fields, each with a 'Drop image here, preferred dimensions 1:1' label. At the bottom are 'Cancel' and 'Save' buttons. The screen has a bottom navigation bar with icons for home, search, star, and settings.

**whakawiti kōrero (feedback):** It would look more professional to change the button text from "Never Mind" to "Cancel". "Create Recipe Page 2" needs adjustment as the elements do not align properly, and the input boxes are different sizes. A variety of fonts are being used, which might not render well on mobile devices.

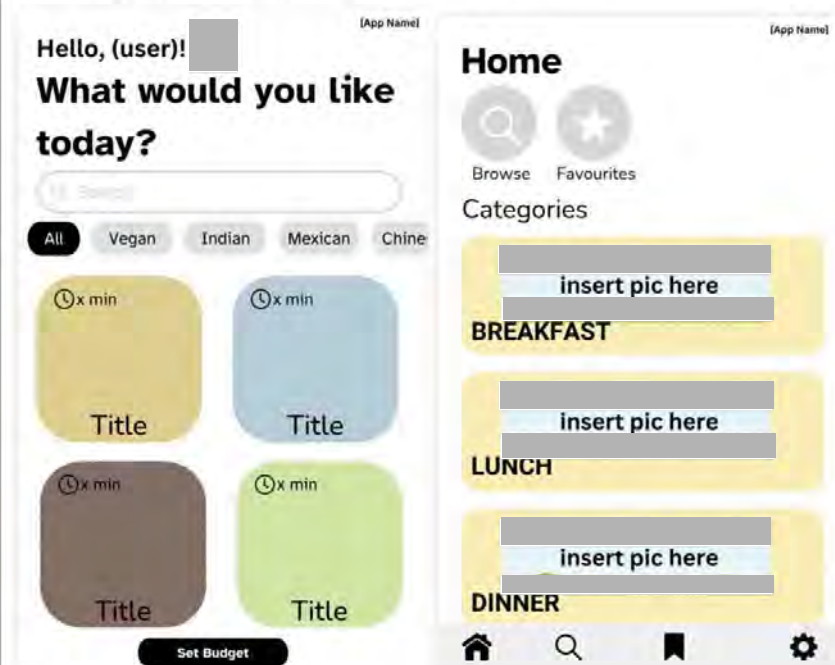
**Modifications made (as a result of the feedback):** In response to the feedback, I overhauled the entire "Create Recipe" system. Rather than having two separate layouts for Page 1 and Page 2, I implemented a single interface using a tab control. This allowed users to switch between three tabs: details, recipe, and image. I also removed the "Overview" input field, which freed up space for the tab control to fit more efficiently.

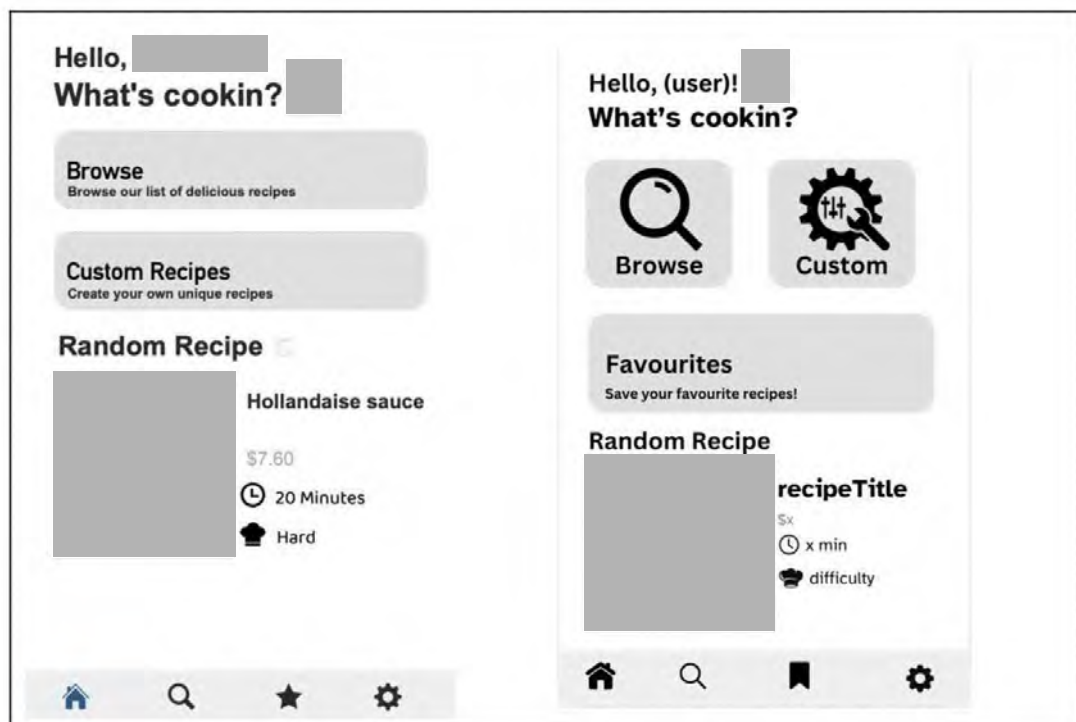
## Evaluating your final design

Screenshots can assist in illustrating this evaluation.

- (c) (i) Explain how decisions made throughout the design process helped improve the selected design for its intended use.

The design process involved several versions and decisions that improved the program for its intended use. Initially, I created three potential designs using Canva and shared them with a few users for feedback. The feedback I received was very useful, with most users suggesting that I combine elements from the first and second designs to create a new one. This led to the third version of the design, which merged the strengths of the earlier concepts. However, once implemented, this combined design had several flaws that needed to be addressed. One major issue with the third design was that there was too much blank space, which made the layout feel unbalanced. The buttons were also an unattractive shade of grey that didn't match the overall colour scheme. Despite these flaws, there were some positive aspects, such as the "Random Recipe" button, which had been suggested by one of the users. I decided to keep this feature for the final design, as it added a fun and useful element to the program. In the final design, improvements were made to address the earlier issues. The category buttons were resized and placed side by side, creating a more efficient use of space. To fill the remaining blank space, I added a favourites button below the category buttons, improving both functionality and appearance. I also renamed "Random Recipe" to "Try this recipe" to make it sound more welcoming, improving the user experience and aligning with the concept of manaakitanga. I also adjusted the background colour of the buttons to a lighter tone, which made the design easier on the eyes and more visually appealing. These changes helped create a final design that was both functional and aesthetically pleasing, shaped to meet the needs of the users.





- (ii) In part (a)(ii) you identified a need or opportunity, and the potential users and their requirements. Explain how your final design meets the identified needs or opportunities of the potential users.

The final design meets the needs of the potential users in several ways. For individuals with specific dietary requirements, such as vegetarians, vegans, or those with food allergies, the platform offers filtering options. Users can easily search for recipes that are vegetarian, vegan, gluten-free, or dairy-free, ensuring that they find meals suitable for their preferences or restrictions. People from diverse cultures are able to use the design to filter recipes from their own culture. To accommodate students and beginners, the design provides simple, step-by-step instructions and uses familiar language to reduce the learning curve. It also supports time management by suggesting a recipe right off the bat, saving time for users who might be looking for something random. The design also includes budgeting features and easy filtering options to help students save both time and money by quickly finding recipes that fit within their financial constraints.

\$

None

☐ Clear budget after search

**Remove Budget**

**Apply Changes**

## Excellence

**Subject:** Digital Technologies

**Standard:** 92007

**Total score:** 07

Task	Grade score	Marker commentary
One	E7	<p>The candidate provided multiple screenshots of the final design, clearly showing all aspects of it. The need / opportunity was clearly identified, and potential users and their requirements were described in detail.</p> <p>Multiple examples of manaakitanga were given, including in (a)(v), where it was identified during the design process.</p> <p>The first feedback was light and the candidate did not specifically explain how the change made improves the design. A very detailed explanation was given in (c)(i) about decisions made during the design process, and the candidate was clear about how each decision improved the final design.</p> <p>In the final evaluation, the candidate was clear about how aspects of the design have addressed the need / opportunity and the requirements of the potential end users.</p>