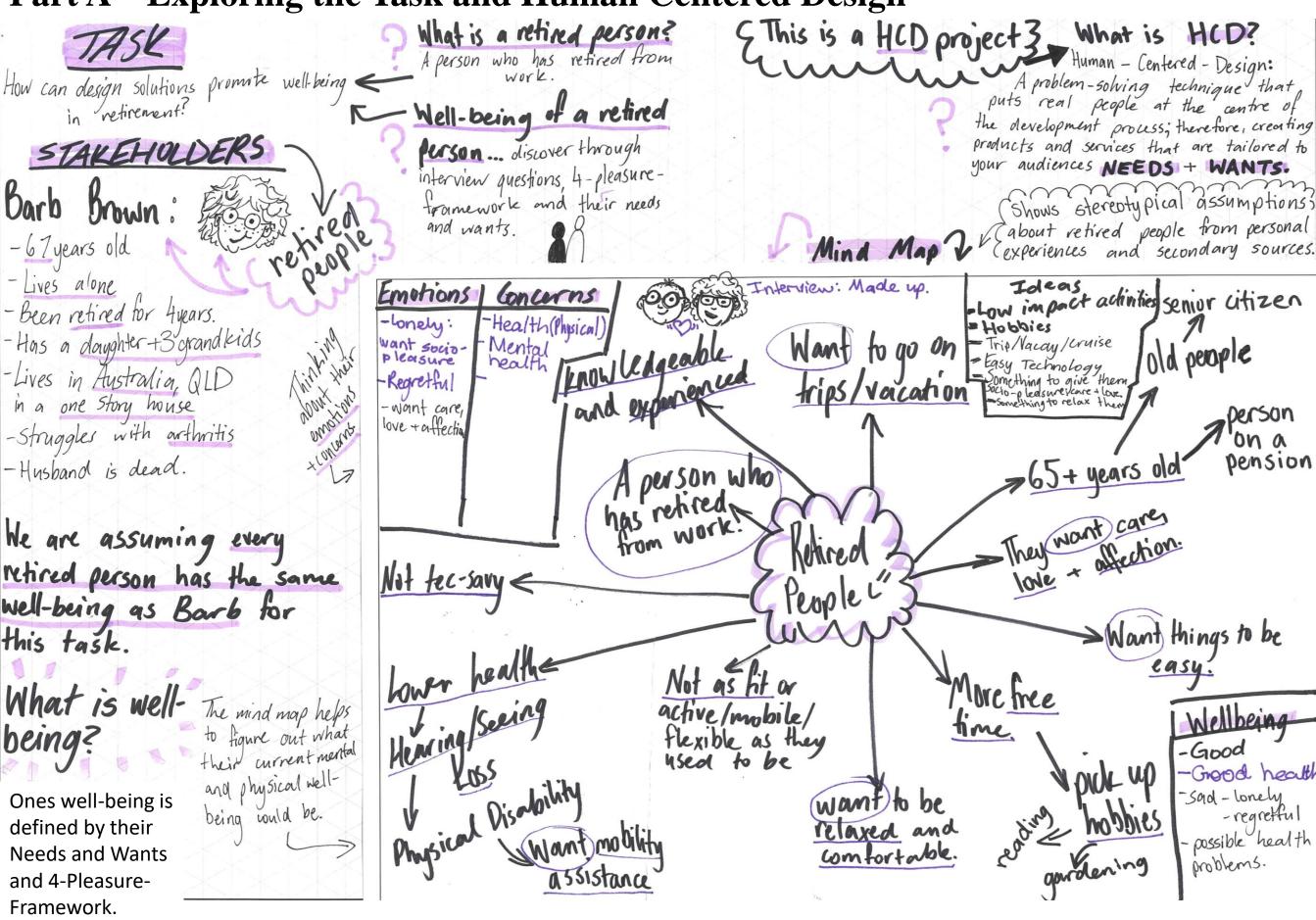
# Design IA2

By Milla Armitage

# Part A – Exploring the Task and Human Centered Design



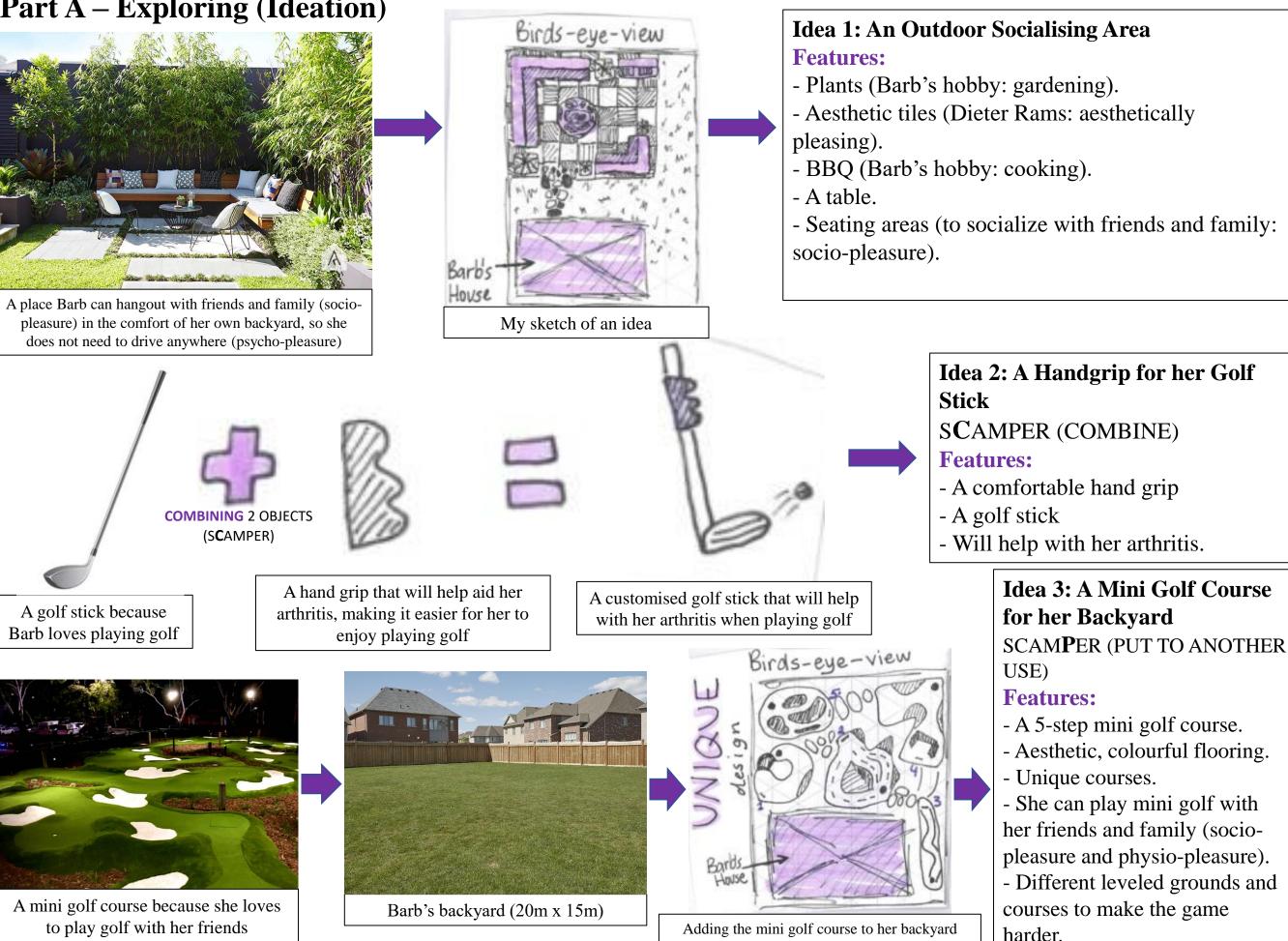
**Part A – Exploration (Interview Questions)** 

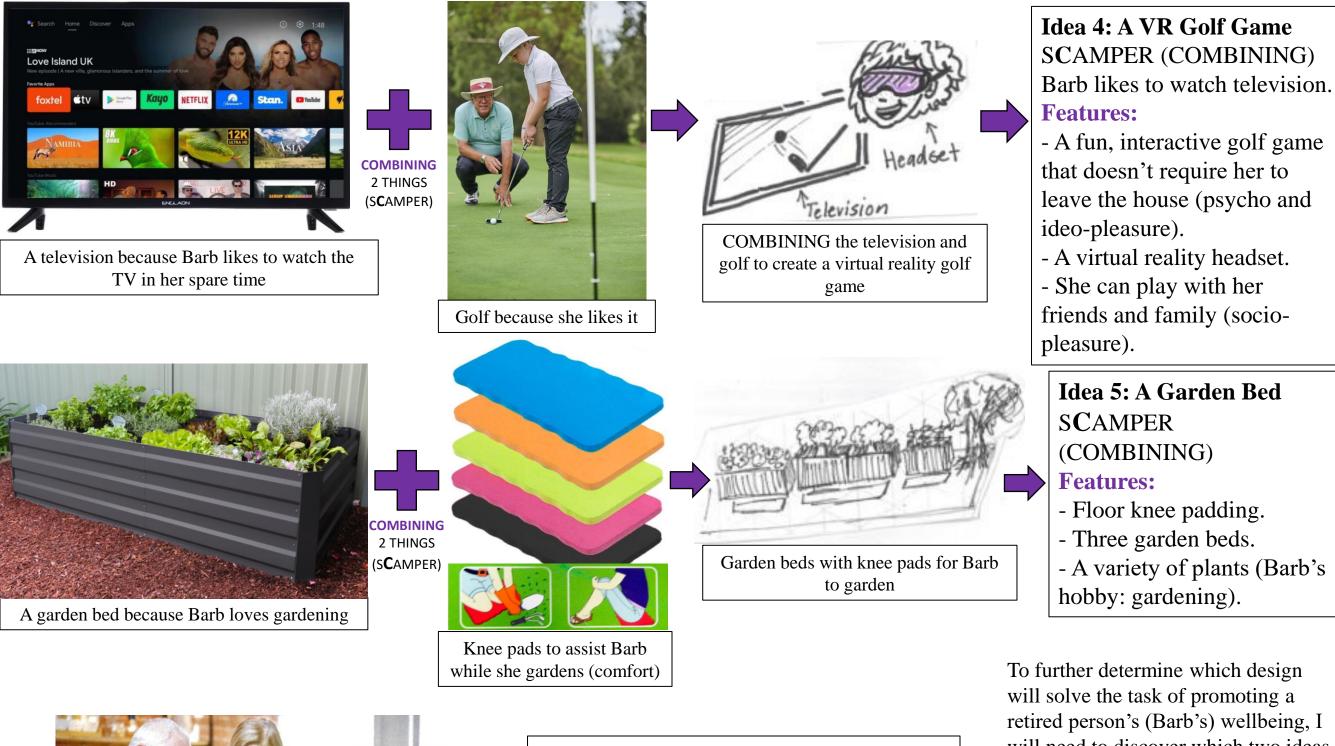
Framework Her family: Pleasure 4 Interview Unestions 18 (Barb GRAND GRAND DANGHTER GRAND SON Psycho Ideo Socio Physio 1. What are your hobbies? ·67 years old -Isn't as -Sense of -Lonely. -Hanging out flexible or mobile Security. Barb: I really love gardening and · Lives alone with Friends - Sad. as she used to -Feels fear-· Been refired for and family. be. -Scared. playing golf with my friends. ful of change Has arthritis physio--Gets a sore pleasure - Her hysband years and the L> to drive. back, arms and Has a daughter socio-pleasure died. -She feels future. L>2. Do any of these psycho-pleasure · Likes: - hanging with hands after - She wants happy when hobbies due to friends + family. and 3 grandkids to see her doing hobbies. activities cause you arthritis. daughter - Cooking · Feels lonely - Needs things to and grandkids. physical strain? - gardening •Her husband died be easier. Barb: I am not as flexible as I - golfing -Has a lot more - watching TV time. used to be, so golfing can be hard 5. What things do you like to do? - Hobbies/Likes physio-pleasure sometimes and leaves me with a Barb: I like to cook in my spare time back and arms. It also attects Mants: Necols watch TV. I like spending time and have arthritis. hands my 95 I -> Care, love and affection. my triends and tamily. I teel with > Things to be more lonely sometimes ever since my husband accessible to her. J. How do you like retired life. -> To not feel lonely. > physio-pleasure died. -> To spend time with -> Mobility assistance. Barb: Change can be difficult. I have a lot socio-pleasure friends and/or loved ones psycho-pleasure -> To hangout with ideo-pleasure time now to do all the things I more (socio-pleasure). 6. What are some things friends and family. could but I don't have enough energy = > To feel safe; a sense never physiopleasure you struggle with? body I used to have. I need things of security (psycho-pleasure). or the to be easier for me. Barb: I struggle with technology, -> The design to be nesthetically pleasing. long activities/exercises, and driving; 4. How big is your (aesthetic). Uackyard : I feel unsafe on the road and -> Promote Barb's well-Barb? I believe I have a would rather walk or have people being. pretty spacious backyard. come to my house. nsucho-pleasure Lo metres It is Lometres long **Principles of Good Design:** But I also get <u>worried</u> that ideo-pleasure and 15 metres wide with 15 metres people don't want to come some space on the side -Accessible to my house because it is not aesthetic enough. of my house. -Aesthetically Pleasing -Useful Barb's House

# **Part A - Exploration (Empathy Map)**











A kitchen for Barb to cook in because it is one of her hobbies

# Idea 6: Redesign of Barb's Kitchen Features:

- An open space
- Plenty of room for her to cook
- An island counter
- An eating area to socialise with friends and family (socio-pleasure)
- Aesthetic designs (aesthetic)

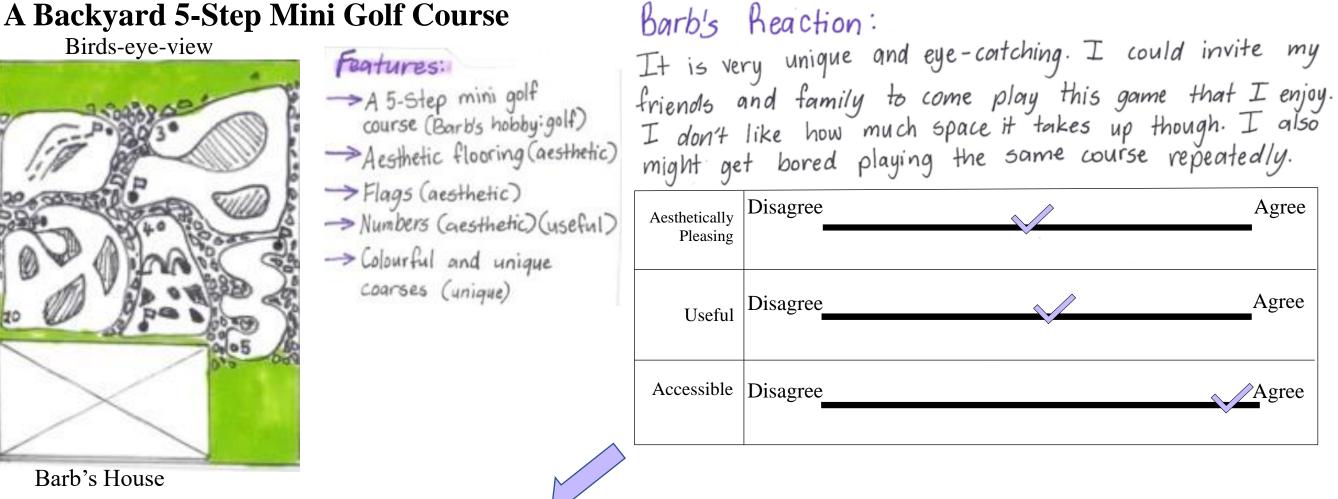
To further determine which design will solve the task of promoting a retired person's (Barb's) wellbeing, I will need to discover which two ideas she likes the best. To do this, I have asked her to list her pros and cons of each idea and rate them on a scale from 'dislike' to 'love' on the next page. Then I will evaluate which idea is best suited for her wants and needs by looking at the strengths, limitations and implications of the designs.

# Part A: Barb's Rating Chart (Devising)

) = Barb's two most favoured ideas

I alt II. Dalb S	Kating Chart (Devising)	= Barb's two most lavoured ideas	
Idea Number	Pros	Cons	Rating
Idea 1	I love it! This is definitely a place I can see myself hanging out with my friends and family. I love all the plants and and that you put a grill in their too. This will make my backyard look so much better and it is very useful.	I do love gardening, but I can't see many plants in this idea. This could be a problem.	Dislike
Idea 2	This is a good idea. It could really help my golfing if my hand didn't hurt so much. This is a very thoughtful idea.	The design is not very aesthetic. I will also have to drive myself to the golf course to be able to use it and I don't like to drive.	Dislike Love
Idea 3	It is very unique and eye-catching. I could invite my friends and family to come play this game that I enjoy and love. I really like the idea. The location is perfect and very accessible to me.	Although, I do not like how much space it takes up. I love nature and my grass so covering it all up seems like a waste. I also might get bored playing the same course repeatedly.	Dislike Love
Idea 4	Woah! I have never thought of this. I think this is a really unique idea and it sounds exciting. I could play this in the comfort of my own home with the girls and the grandkids.	I am not very tech-savy so it could be hard to control.	Dislike Love
Idea 5	I love gardening! The knee padding is a really good idea because I do find it to be a struggle without them.	The design you sketched is not very aesthetic.	Dislike Love
Idea 6	I do love to cook so this would be nice.	I like my kitchen the way it is, and I really do not want to change it. I will lose things and it just seems really hard. A good idea but not for me.	Dislike

# **Part A – Strengths, Limitations and Implications of Idea #3:**



## Strengths:

This design is a mini-golf course for Barb's backyard. A strength of this design is that mini golf will not cause as much strain to Barb's hands compared to normal golf. This will therefore be a better alternative for her physical problems (physio-pleasure). The environment will help Barb feel safe because it is located in her own backyard. This is a strength as she will not be required to travel to another destination as she does not feel safe driving (psycho-pleasure). It will bring her socio-pleasure as she will be able to invite her friends and family to play and join in. It follows many of her needs and wants. The design is very accessible, but moderately aesthetical and useful in her opinion. Lastly, it will ultimately promote Barb's wellbeing as it takes into consideration all four or her pleasures.

# Limitations:

A limitation to the design is that there is no where to rest or have a break. Barb stated in her interview that she does struggles with long activities/exercise, so this will be a problem. The design lacks ideo-pleasure as there is no prize at the end of the course for whoever wins. This could be a problem when encouraging participation. Another limitation is that there is no where to keep or put away the golf sticks. The courses are also a bit easy for Barb who has been playing golf since she was a kid. She could potentially get bored of the same courses. **Implications:** 

As a result of the limitations, I have decided I will need to change, add and/or refine some features of this design. I will add a table, chairs and a golf stick holder for Barb to rest and socialise (physio-pleasure and socio-pleasure). A trophy for the winner would be added to increase ideo-pleasure for Barb and her guests. I will refine the design by making the obstacles moveable, to make the course more unique and interesting.

#### **Part A – Strengths, Limitations and Implications of Idea #1:** 1.1 O in .

An Outdoor Social Area	Barb's Reaction.
Features: -> Plants (Barb's hobby: gardening) -> Aesthetic tiles (aesthetic) -> 000 (0	I love it! This is definetly a place I can see myself hanging out with my friends and family. I love all the plants and the grill too.
->BBQ (Barb's hobby: cooking) ->Seating areas (socio-pleasure) ->Table (useful)	Aesthetically Pleasing Disagree Agree
	Useful Disagree Agree
	Accessible Disagree
Strengths:	

#### Strengths:

A strength of this design is that the space will bring her socio-pleasure as there is plenty of room to hangout with friends and family. She will also feel safe here as she will not need to drive anywhere (accessible). This design will mean she is surrounded by plants, aesthetics designs, her family and her friends. This environment will allow her to enjoy her other hobbies too, like cooking on the grill or gardening her many new plants. From her reaction, it is clearly shown that she finds the design to be very aesthetically pleasing, accessible and useful. The design incorporates and takes into consideration all of Barb's 4-Pleasure Framework and needs and wants. Lastly, this is the best solution to the problem as it will improve Barb's well-being.

#### **Limitations:**

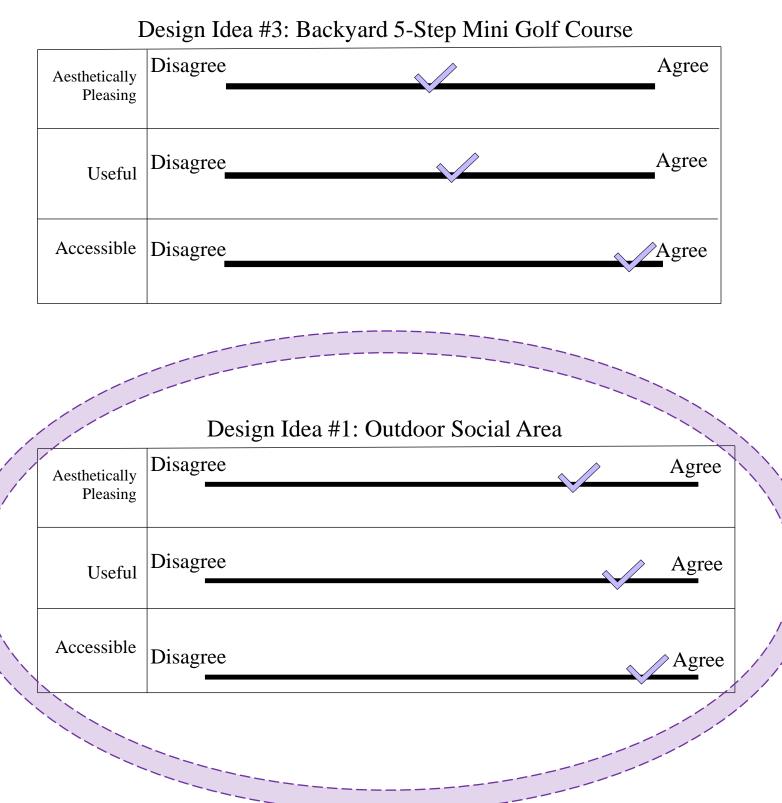
Barb loves spending time gardening but there aren't many plants or variety, this is a limitation. The environment lacks any entertainment resources besides socialising and eating. This is a limitation because it won't fully promote Barb's wellbeing and her guests might potentially get bored. Her grandchildren are young and will want some entertainment.

# **Implications:**

As a result of the limitations, I have decided to make the following changes, additions and/or refinements to my design environment. I will add three garden beds for Barb to plant a variety of things, whatever plants she wants. There will also be padded mats in front of the garden area, so she doesn't hurt her knees. I have also decided I will add more plants near the seating area. I have refined these plants to be more aesthetic and versatile with a wider range of plant species for Barb to enjoy. Barb likes watching the television and it is a good source of entertainment for everyone, so I will add a television to the design. Incorporating all of the following implications to the design will improve Barb's well being.

# **Part A - Barb's Decision**

Comparing Barb's opinion on how well Design Idea #1 and #3 apply the Principles of Good Design:



Through ideation, critical evaluation and coinciding with Barb, we have discovered the two designs that are best suited to solve the task and promote her wellbeing.

Barb's reaction to both the designs show that she clearly liked the Outdoor Social Area (idea #1) more than the Backyard Mini Golf Course (idea #3). She thought it was more aesthetically pleasing and useful than idea #3, but they were both equally accessible as they were both located in her backyard.

Now I can create a design criteria against the Outdoor Social Area.

# **Design Brief**

The stakeholder of this task is retired people, generally aged 65 and above. I identified my neighbour, Barb Brown, as a retired person who I could help. She is 67 years old and lives alone. I needed to design a solution to help promote her wellbeing. I interviewed her and identified nine different needs and wants. A problem I identified through the interview questions is when Barb mentioned she is worried that her house is too boring, and her friends and family don't want to see her because of this. She used to hang out with her friends and family much more but as she has gotten older, she does not feel as safe on the roads and feels scared when driving. To promote Barb's well-being, I will need to design a solution that will improve her socio-pleasure without her needing to drive.

I have decided to design an environment that will suit a retired person, like Barb's, needs and wants. The design will focus on improving her socio-pleasure by creating a space that's enjoyable, aesthetic and her friends, family and herself will want to hang out. The problem is defined by her fear of driving, that is why I have chosen her backyard as the location for this environment.

# **Design Criteria:**

## Must:

- 1. Allow her to spend time with friends and family (socio-pleasure)
- 2. Be aesthetically pleasing to Barb (aesthetic)
- 3. Promote Barb's well-being (useful and 4-pleasures)

#### Should:

- **4.** Be accessible to Barb (accessible)
- 5. Be located in Barb's backyard (sense of security: psycho and ideo-pleasure, accessible)

# Must Not:

6. Require her to drive; therefore, she will feel safe (psycho-pleasure)



Evaluating the initial idea against design criteria:

Design Criteria	Rating 1-5 ticks
1	
2	
3	
4	
5	
6	

Barb's house

To improve this design, I will need to make it more aesthetic and modify it to promote Barb's well-being better. To do this I will need to make certain

modifications to the design. The changes I suggested in my implications for this idea will be implemented to suit Barb's design criteria.

#### Additions to the design :

- $\checkmark$  A garden bed
- ✓ Colours
- $\checkmark$  A television
- $\checkmark$  More plants

This is a sketch of the improved

To determine what colours and styles I should use throughout this design, I interviewed Barb:

Question: What are your favourite colours? Barb: Purple is my favourite colour. I also like blues, yellows and

other Mediterranean colours.

Research on Mediterranean colours:

reatures

well-being

look (aesthetics).

addition to my

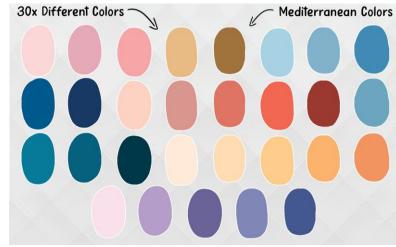
me happy.

garden beds

Aesthetic icons on

each garden bed

Knee pad mats



**Question**: What is your style? Do you want your design to be unique, colourful, simple? Barb: I would love a colourful, unique and inviting area. Different shapes and sizes would be great. I would also like to still be able to see my grass.

Question: What kind of plants do you want in your garden area?

**Barb**: I would love some colourful flowers like daisies and lavenders, and an orange tree!

From the interview above I discovered Barb's favourite colours. This allowed me to create the final garden area idea on the left of the page. I decided to make the garden beds yellow because Barb really likes the colour. To make the design more aesthetic I added unique icons to each container to differentiate between each plant: a flower for the daisies, an orange for the orange trees, and a leaf icon for the lavenders.

design which includes the additions

and

Adding the garden and other plants throughout

areat

backy and Gardening makes

# **Part B - Devising**

When devising I took into consideration the questions I had recently asked Barb. I decided to make the seating options and plant pots her favourite colours: purple and blue (aesthetic). The seating area will be comfortable, inviting and waterproof. I chose a range of Mediterranean colours Barb said she loved for the unique floor tiling (aesthetic). The table will be brown, also featuring Mediterranean coloured items to place Barb's cooking on. They feature unique shapes just like Barb asked for.

The television is a necessary addition to the design because Barb likes to watch it and it will be a good source of entertainment. Although, a problem I found when placing a television outdoors is weather. Things like rain, snow, wind and other weather concerns, might cause harm to the television. I chose a water-resistant television, and I created a cover to protect the TV when Barb is done using it. It involves pressing a

button just above the television in the top right corner, then a following cover will slide down and fully protect the TV when not in use (useful). I also added speakers to the TV for a better sound system. Barb said she wanted unique and different shapes, so I changed the table from a circular shape to a soft-edged rectangle for contrast. All of the outdoor items (e.g. plant pots, outdoor couch, grill, table, etc) can handle the rain and other weathering issues.



This is an image of part of my prototype:



seating

area

(comfortable)

A sketch of Barb's social area and it's potential Mediterranean colours:

a television

Sound

Sustem

Speaker.

......

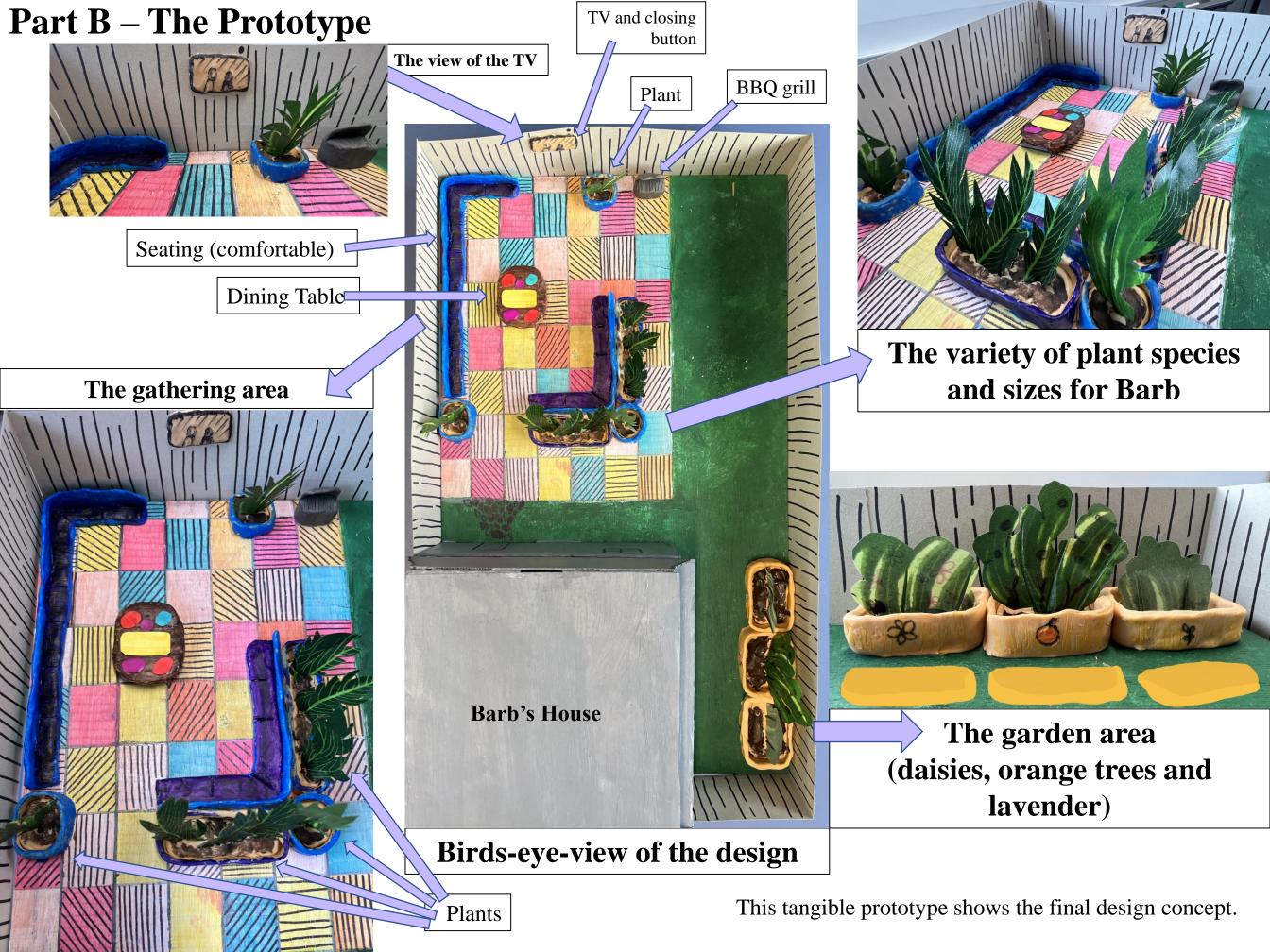
aesthetic tiles

button to close

fence

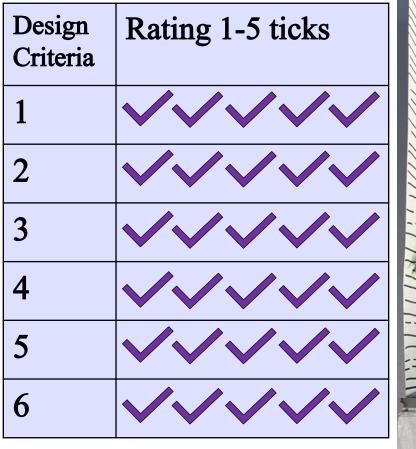
plants

ZOOM IN



# **Part C - Final Concept**

The final concept against the design criteria:





This shows that this design will promote Barb's well-being and meets the task.



# Birds-eye-view **Barb's House**

# Features of the garden area:

- 3 garden beds with unique iconography for each one (aesthetic).
- Knee Padding (physio-pleasure and useful).
- Barb's favourite things to garden: daisies, oranges and lavender (psycho-pleasure).

**Barb:** I cannot wait to invite my family and friends to see this amazing design. I love it, I love the colours, it's perfect! This will improve my well-being.



## Features of the outdoor social area:

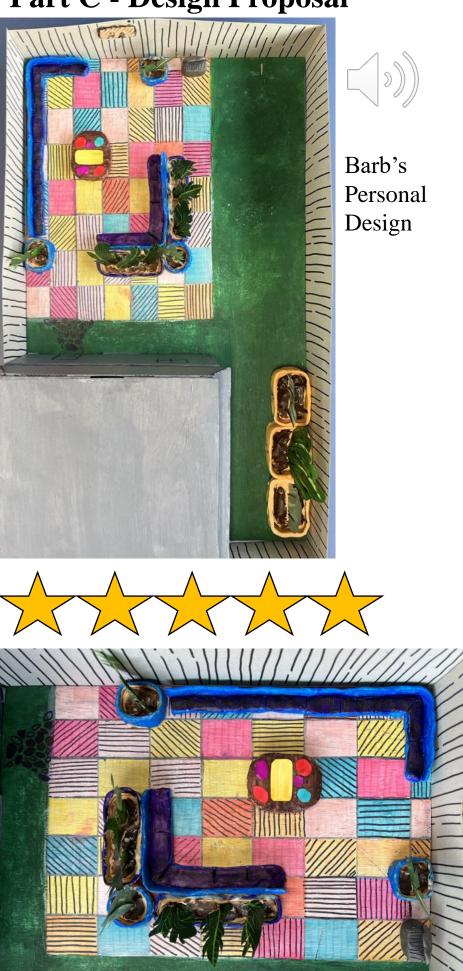
- Plenty of comfortable, waterproof seating options to socialise with friends and family (useful, sociopleasure and physio-pleasure).
- A television with a sound system (speaker) and a button to optionally close (useful and innovative).
- Colourful and unique tiles (aesthetic)
  - A brown dining table featuring Mediterranean coloured mats to place Barb's cooking on (aesthetic and useful).

Blue and purple plant pots and holders (aesthetic)

Aesthetic stones leading from Barb's back door to the outdoor social area (aesthetic).

- A range of plant species and sizes for Barb to garden (psycho-pleasure).
- A BBQ grill for Barb to cook on (psycho-pleasure).
- All outdoor items are water resistant and weather-proof (long-lasting and useful).

# **Part C - Design Proposal**



Welcome, today I will be talking about my design: The Outdoor Social Area. I designed this gathering area for my neighbour and retiree Barb Brown.

The task has asked me to find out if design solutions can promote well-being in retirement. This design has been personalised for Barb; a woman who has been retired for four years now. So, for the purpose of this task, Barb will represent all retired people. Like most elderly people she has children, grandchildren and friends but is scared to drive. She wants to see her friends and family more, but she is afraid her house isn't aesthetic enough. This has previously made it hard for her to see her loved ones but not anymore. With my design she can stay in the comfort of her own home and socialise with whoever she wants in her new, aesthetic Outdoor Social Area. This makes it very accessible. She can host dinners, parties, get togethers with her friends or even just go outside herself. The design is very versatile and multi-purposeful.

The strengths of my design are its uniqueness and aesthetics. I have designed it to be an inviting and comforting environment; a place to socialise with others. Everyone needs to socialise in order to increase their sense of happiness and well-being. This design is perfect for socio-pleasure. It features many comfortable seating options and activities to do. There are many plants to take care of and flowers or oranges to pick. There's also a television for entertainment. You could even cook on the BBQ grill and wonderfully present your food on the colourful dining table. As you can see the design offers all of your four pleasures: psychological, physiological, social and ideological. It is useful because the design caters for your needs and wants.

A limitation to this design could be that it might not suit everyone. While Barb wanted Mediterranean colours and a garden area, others might not. To solve this, the retired person could choose their own colour scheme and the garden area would not be included for them as it would not be useful.

In conclusion, the Outdoor Social Area design is perfect for any retired person wanting to socialise in the comfort of their own home. It is aesthetic, useful, very accessible and will promote retired people's well-being.

That is my design, thankyou for listening.