

G8 STUDENT A

LIVING POD PROJECT FOR MIGRANT WORKERS

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Qatar

KEY CONCEPT

COMMUNITIES

are groups that exist in proximity defined by space, time or relationship. Communities include, for example, groups of people sharing particular characteristics, beliefs or values as well as groups of interdependent organisms living together in a specific habitat.

RELATED CONCEPTS

INNOVATION & SUSTAINABILITY

GLOBAL CONTEXT

FAIRNESS AND DEVELOPMENT

(Inequality, Difference and Inclusion)

STATEMENT OF INQUIRY

“To reduce **inequality**, we can design for a **community’s** needs, using **innovative** and **sustainable** design”

INQUIRY QUESTIONS

FACTUAL

What are the main requirements of a living space for people?

What are the minimum dimensions of a kitchen/bedroom/living room/bathroom

CONCEPTUAL

How are Living spaces designed to meet the community's needs?

What sorts of problems are faced by migrant workers in Qatar?

DEBATABLE

Is the lifestyle of a person the biggest driving force of a living space?

Do we need to consider the environment to create a sustainable living space?

LEARNER PROFILE

- Inquirers: Researching a particular problem in detail and coming up with a good solution.
- Communicators: Communicating their ideas and solutions to the problem using different mediums.
 - Caring: Taking consumer needs of those less fortunate than them into consideration
 - Risk takers: Taking risks in the CAD modelling of designs to see if they work

GOAL

The main aim of this unit is for pupils to understand that you can use design to provide a solution to a problem and “design for a purpose”. Pupils will also learn the design process of an Architectural designer as well as developing their analysis, physical modelling, 3D modelling and presentational skills. This project requires them to consider social, moral, economic and environmental factors surrounding them through “looking at the lives of migrant workers and the struggles they have”.

ROLE

You are a **Architect** for domestic Houses and Living Spaces.

AUDIENCE

Your target audience are **Migrant Workers** living in Qatar.

SITUATION

Many of the Migrant workers living in Qatar and other parts of the world are living in condition not appropriate for the workers. They share accommodation with many other people and this can lead to many issues (eg: lack of space, lack of hygiene and lack of privacy etc).

PRODUCT

Your task is to DESIGN and MAKE a prototype Pod (living space) for Migrant workers in Qatar. Whilst designing you will need to consider the target user’s needs, the surroundings (climate and conditions of Qatar) as well as the design brief specification. You could consider a sustainable design that is attractive to look at and live in.

SPECIFICATION

Your Living Pod must be attractive for your target audience.

- You must consider the size of the Pod, it must not be too large that it seems like a house and not be too small that it does not accommodate all the necessary requirements for living migrant.
- It must be a good size and fit your specification and target user needs.

Software/Hardware

You will use the following software:

- 3D Autodesk Meshmixer
- Google SketchUp
- Google Drives/Classroom

You will use the following hardware:

- Laptop
- 3D printer
- D&T Workshop machines

DESIGN TASK

You will Research, Design and Make using CAD a Living Pod for migrant workers.

AREAS OF ASSESSMENT

Criterion A: Inquiring and Analysing

- i. **explains** and **justifies** the need for a solution to a problem for a client/ target audience
- ii. **constructs** a **detailed** research plan, which **identifies** and **prioritizes** the primary and secondary research needed to **develop** a solution to the problem independently
- iii. **analyses a range of** existing products that inspire a solution to the problem in detail
- iv. **develops** a **detailed** design brief, which **summarizes** the analysis of relevant research.

Criterion B: Developing Ideas

- i. **develops detailed** design specifications, which **explain** the success criteria for the design of a solution based on the analysis of the research
- ii. **develops a range of** feasible design ideas, using an appropriate medium(s) **and detailed** annotation, which can be **correctly** interpreted by others
- iii. **presents** the chosen design and **justifies fully and critically** its selection with **detailed** reference to the design specification
- iv. **develops accurate and detailed** planning drawings/diagrams and **outlines** requirements for the creation of the chosen solution.

Criterion C: Creating the Solution

- i. **constructs a detailed and logical plan**, which **describes** the efficient use of time and resources, sufficient for peers to be able to follow to create the solution
- ii. **demonstrates excellent** technical skills when making the solution.
- iii. follows the plan to **create** the solution, which functions **as intended** and is presented **appropriately**
- iv. fully **justifies** changes made to the chosen design and plan when making the solution.

Criterion D: Evaluating

- ii. critically **evaluates** the success of the solution against the design specification
- iii. **explains** how the solution could be improved
- iv. **explains** the impact of the product on the client/target audience.

Obtaining high marks

You must try and aim to achieve the highest marks possible for each criteria. The highest mark for each criteria is 8.

To obtain the highest marks you must try and meet all the requirements of the criteria eg: if it says **describe** you must go into detail rather than just **state** a few things to obtain the mark for describe.

Extra Advise:

Other than the levels criteria, to obtain high marks you should consider the following:

- •Always refer your design back to a concept and the Target Market, which is the Migrant workers.
- •Always try to respond creatively to briefs and relate back to your design specification.
- •Think about the interior design as well as the exterior design of your living pod.
- •Link your design to a inspiration/concept/design movement.
- •Think about the functionality as well as aesthetics.
- •Think about how to make an eco-friendly and sustainable pod.
- •To consider environmental and sustainable issues in designing their living spaces (pods).
- •When presenting your final living pod, communicate your designs using a range of media (3D CAD Modelling, Sketches, 3D prototype card model).
- •Use CAD/CAM when making.

INQUIRING AND ANALYSING

Criterion A:

Research – Migrant Workers

1. Explain the term Migrant? Give an example

A person who lives temporarily or permanently in a country where he or she was not born.

2. State a few reasons why a person leaves one place for another?

- To seek better employment
- To access a better education
- To escape persecution
- To be closer to friends and family

3. Explain the following words below? Give examples

Refugee:

A person who has left their home country because they are afraid of being persecuted or badly treated because of their race, religion, nationality.

Asylum Seeker:

A person who has left their country and has applied for recognition as a refugee in an another country, and is awaiting the decision for their application.



Research – Human Rights

1. How would you define Human Rights?

Things to which you are entitled or allowed; freedoms that are guaranteed.

2. Who is entitled to Human rights?

Human rights are entitled to everyone, everywhere.

3. List 5 things you think are essential to human life?

1. All people are created equal
2. Freedom of religion
3. The right to shelter
4. Freedom of speech
5. The right to education

4. Write down as many rights as you can think of? One has been done for you.

1. The right to clean water
2. The right to privacy
3. The right to education
4. Freedom of speech
5. The right to shelters
6. The right to equality
7. The right to food
8. The right to cleanliness
9. The right to clothes
0. Freedom from slavery
- 1.

5. State the amount of entitlements you have in this country from your rights above. Compare this to the migrant workers you interviewed. Do they have the same amount as you? Explain your answer

In my country I do have the rights to many of the ones listed in q.4, but compared to the migrant workers, it is unfair that they don't have the same rights such as the right to privacy because they are forced to be in a room with many other workers.

6. In what year was the United Nations formed?

In 1945.

7. How many Human Rights are in the Universal Declaration?

There are 30 human rights in the Universal Declaration.

8. What reason is given for why there are still countries who do not follow the Universal Declaration of Human Rights?

It was optional and it was not enforced by law.

9. Can you name at least 3 people who have been influential in the fight for Human Rights?

1. Mohandas Gandhi
2. Rosa Parks
3. Jimmy Carter
4. Martin Luther King Jr.

10. Fill in the missing spaces below:

Money or monies that migrants send home to their families in the home country are referred to as salary.

Migrants need a work visa to legally work in a another country.

JUSTIFY THE NEED FOR A SOLUTION

Explain and **Justify** the need for your POD? First explain the **Problem** (you must think of this yourself) then explain and justify Why is it important for you to make an educational website? What benefits will it bring to ISLQ and the wider community? (Below is an example of the command terms showing the difference between Explaining something and Justifying it.

More than 1.5 million migrant workers live in Qatar right now. That makes up more than 60 percent of the population. When they come to Qatar, the company they work for is in charge of their residency permits so that means they can't change or quit their jobs or leave the country without the company's permission. The problem is that many migrant workers don't have enough space and privacy in the homes they stay in which they sometimes share with 30-50 other workers. Most of these shelters are too dirty and unsanitary to live in. All humans have a right to shelter, privacy and cleanliness so these immigrants have a right to that too. Many workers come back home after a long day of work and need to relax but can't because of the overcrowd of workers around them. Every worker needs their privacy for different reasons, whether it is for video calling family or for just sitting in silence they still deserve a right to have some time alone. Some of the bathrooms are very unhygienic because of how many people use them and that isn't good for their health especially after coming from work to shower and the stalls might be full of people. The people that work as drivers or in some sort of transportation need a place to park their cars but they don't have any space so they'll have to go park it somewhere far away from their home.

The solution is to make small 4 by 4 house that are for one individual also known as living pods. A pod is a self-sustainable living space that can be used as a shelter from earthquakes and tornados, a home for the homeless, and even a vacation home. The pods are fully equipped and a customizable solution for living anywhere. These pods are a good solution for the migrant workers because it has all the things they need: privacy, cleanliness, space and comfortable living. The pod includes a bedroom, bathroom, kitchen and a living/work room which is enough for one person.



Sources:

<https://www.citylab.com/life/2017/06/meet-the-workers-building-qatars-world-cup-stadiums/529575/>

<http://modularlifesolutions.com/living-pod/>

SITUATION ANALYSIS / RESEARCH PLAN

Below is an example of how to analyse your situation through a research plan. You need to do this for all the CAFQUES headings. Only some of them have been shown below:

<u>Generic Area</u>	<u>What has to be Researched?</u>	<u>How will it be researched?</u>	<u>Is it Primary or Secondary Research?</u>
COST	<ul style="list-style-type: none"> • How much will it cost to make my website? • How much the software I will be using cost? • How much will my materials cost (wood, glass, etc.)? • How much will the furniture cost? • How much will it cost to put water pipes and electricity? • How much will the land cost? • How much will the labor cost? 	Research/Ask Experts Research Research Research Ask experts Ask experts Ask workers	Secondary Secondary Primary Secondary Secondary Primary Primary
AESTHETICS	<ul style="list-style-type: none"> • How will the house be shaped? • Will there be a garage? • How will the pod be furnished from the inside? • How will the bedroom be decorated? • Will the bathroom be big or small? • How big will the house be? 	Research Ask user Ask user Ask user Ask user Ask experts	Primary Secondary Primary Secondary Secondary Primary
FUNCTION	<ul style="list-style-type: none"> • How should the doors and windows function? • How will the garage door open? • Will there be foldable chairs and sofa? • Will it have stairs? • Will there be a kitchen? • Will the house have an A.C or a heater depending on the weather? • Will the bedroom have windows? • How will the windows open? 	Ask experts Research Ask user Ask user Ask user Research Ask user Ask experts	Primary Secondary Secondary Primary Primary Primary Secondary Secondary
MAKING (Software, Hardware)	<ul style="list-style-type: none"> • How long will it take to make the pod? • How long will it take to decorate the house? • Will the furniture be handmade or bought? • How will the house be made? • What will the house be made out of based on the conditions of the country? • How many workers will be needed to make the house? 	Ask experts Ask experts Ask user Ask experts Research Ask experts	Primary Secondary Secondary Primary Primary Primary

SITUATION ANALYSIS / RESEARCH PLAN

<u>Generic Area</u>	<u>What has to be Researched?</u>	<u>How will it be researched?</u>	<u>Is it Primary or Secondary Research?</u>
USER	<ul style="list-style-type: none"> • What size and style of house will the user want? • Will the user be using the house for a specific reason? • What type of furniture will the user want? • Will the user want an extra room for work? • Will the user be using it at day or night depending on their job? • How old is the user? • What is the users job? • Does the user need a garage for their car? • Does the user need a kitchen? 	Asking User Asking User Asking User Asking User Asking User Asking User Asking User Asking User Asking User	Primary Primary Secondary Secondary Primary Secondary Primary Primary Primary
ETHICAL ISSUES	<ul style="list-style-type: none"> • How can this affect the environment? • How will it be designed based on the users nationality and culture? • How will the house be built based on the countries laws? • How far will the users job be from the pod? 	Research Research Research Ask User	Primary Secondary Primary Primary
SAFETY (e-safety)	<ul style="list-style-type: none"> • What materials will be suitable and safe for building? • What glass will be used for the windows? • Will the water pipes be underground? • How will the house be supported? • Will there be locks on the windows and doors? • How can building this pod affect the environment? • How will the house be protected? • Where will the house be located? • What equipment will be needed? 	Research/ Ask Experts Research Ask Experts Research Ask User Research Ask experts Research Research	Primary Primary Secondary Primary Primary Primary Primary Primary Primary
ENVIRONMENT	<ul style="list-style-type: none"> • What environment is the user living in? • How should the pod be designed due to the weather? • What materials will be suitable for the weather? • How will the materials that will be used affect the environment (e.g. wood from trees) • How will the location of the pod affect anybody living near it? 	Ask user Research Ask experts Ask experts Ask experts	Primary Primary Primary Primary Primary

RESEARCH – TARGET USER PROFILE

Name: Abdul Hakim

Occupation: He is a construction worker that has been living in Qatar for the past 10 years and is working over 12 hours a day with no rest.

Family: Abdul Hakim has a wife and 3 kids that live in Bangladesh which he spends a lot of time skyping and video calling them to watch his children grow.

Salary: Abdul Hakim works at night and earns under 4,000 QR. The company he works for takes 1,000 QR for his shared accommodation room with 6 other people.

Interests: He likes his roommates and likes chatting and eating with them. He loves Bollywood movies and likes Indian art and patterns. He likes to practice cricket with his friends.

Concerns: Abdul Hakim needs to work for many hours a day even when he's exhausted because he needs to make money so that he can pay for his children to go to a good school in Bangladesh. His roommates make a lot of mess in the room they share. He lives very far away from his family in Bangladesh. He would like to have a room for himself where he can speak to his family in private. He does not like the light of the sun shining through his room while he's sleeping. Abdul Hakim doesn't have much time to cook because he works long hours.

Pod Design: Abdul Hakim doesn't like sunlight so there would not be a lot of windows in his pod or there could be thick blinds that can block the light out. He doesn't really need a kitchen but he can have a small kitchen with a microwave and a sink since he doesn't have time to cook. It would be good if there was an empty wall where he could practice cricket in his free time. He would also like a TV for watching Bollywood movies in his free time. He doesn't need a garage because his company provides him with transportation.



(RESEARCH) Product analysis

Analyse an existing pod or living space. Get an image of your pod on the next page and use the headings below to analyse it? **You will find and analyse 4 existing living spaces (pods) using your CAFEQUES criteria below:** These headings and questions should help you remember how to effectively analyse and evaluate products. Read through this slide then answer the questions on the next slide.

Cost

- How much does the pod cost and is it good value for money?
- How much do you think it cost to make?

Aesthetics

- Does the product look good? Explain why?
 - Does it make good use of colour and texture?
 - Has it got a good quality finish?
 - What is the shape like? Is there any particular way it is shaped liked this?

Ergonomics

- Is the pod comfortable to use?
- To what extent has the designer considered human factors (ergonomics) in the product's design?
 - If you increase or decrease the product's scale, would it work or look better?

Function

- Does the product do the job for which it was intended?
 - How well does the product work?
 - Could it be improved?
 - Is the pod portable?

Manufacturing

- How was the pod constructed? Was it made on the site or pre-fabricated and brought on site?
 - Can it be assembled easily?

Safety

- How has the designer considered the safe use of the product?
 - Think about who may be using it (ages) and how different parts have been joined together?
 - Does the product meet safety standards?

Environment

- Can you think of any impacts the product or use of the product may have on the environment?
 - Think about its manufacture, general use and final disposal when its not needed.
- Would you say the design is sustainable (eco-friendly) if so how?

User

- Who is the product designed for (the target market)?
 - Why would they use the product?
 - What impact will it have on the consumers quality of life?
 - How is the product promoted to attract its customers?

RESEARCH – POD ANALYSIS 1

Environment:

This pod uses a lot of wood so it is killing a lot of trees and is harming our environment. Since it is made out of wood, it can easily get destroyed by lightning or maybe by rain. This pod can be disassembled into 4 blocks and can be reused in different ways. The wood in this pod can be recycled and used to make other products like chairs, tables, etc. This design is eco friendly because it can be built in 4 different ways so the user does not like the shape, they can change it into how they want it to look like.

Function:

The product does do the job it was intended because it has everything a person needs in a house: kitchen, bathroom, bedroom and a garage. I feel like it could be a bit smaller because it looks a bit too big for 1 person. The pod is portable so you can transport it around.

Cost:

I think this should be expensive because it is a complicated design and it needs a lot of support to make sure it doesn't fall down. I think it is a good value for the money because the design of the pod allows you to park your car on the left section of the pod so that can come in handy if the user has a car or if their job is a driver.



Manufacturing:

They used prefabrication methods and concepts to build the pod. It was prefabricated and brought on the site and then put together. The modules can be delivered anywhere, easily installed on site and completed by yourself within 7 days.

User:

This pod is made for students, business people, sports and leisure use, and for weekenders who were going to stay in a country for a short period of time. It attracts customers because of its strange design and nice color and texture that is appealing to the eye.

Aesthetics:

This product does look good because it has a unique design that makes it eye catching and the color and the texture of the wood makes it look very good and it gives a feeling of living in a forest. It is shaped like a different sized squares placed on top of each other.

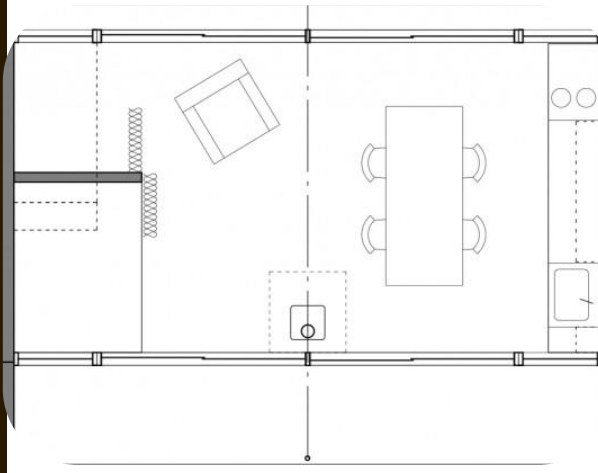
Safety:

This pod might be a bit unsafe because since it's four different pieces, it might fall apart. It can also easily catch on fire or get ruined by the rain since it's made out of wood. There is a large balcony in the bedroom so the user should be careful to not fall out of it. It might also be easy for robbers to break into since it has many openings.

Ergonomics:

It is comfortable to use because it is big and easy to get around in its space. If I were to change it, I would change to look simpler and maybe a bit smaller since it's only one person living there and they won't need the house all the time because they will be spending most of their time at their jobs.

RESEARCH – POD ANALYSIS 2



Environment:

This pod has an impact on our environment because it uses a lot of wood which is killing trees. It is small so it doesn't take up much space in our environment and does not disturb any other animals living in our ecosystems. Since this is made out of wood, it might get destroyed by lightning or maybe by rain. The wood in this pod can be recycled and used to make other products like chairs, tables, etc.

Function:

The product does do the job it was intended because it has some of the stuff a person needs in a house: a kitchen, bedroom, and a living space. It does not have a bathroom inside but there is a small bathroom stall located outside of the pod. It has a chimney for when the weather gets cold. I think it would be better if it had a garage. This pod is portable so you can transport it around.

Cost:

This pod cost \$60,000 to make which because of the labor and materials and is a little too expensive because it is quite small. But if you want to live in it I predict it will be cheap because it is easy to put together and it is a small simple rectangular house. I think it is a good value for the money because you can easily move it from one place to another and it can also fit in any environment.

User:

This pod is made for people or workers coming to stay in a country for a period of time and this is a good pod because it is made for different weathers and it will not get ruined by rain or snow. It can also be transported easily so if the user changed their job to somewhere else in the country, they can move their pod with them.



Aesthetics:

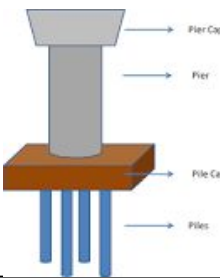
This product does look good because it has a simple design with a nice dark wood color and texture. The large windows with the wood also make it look more modern. It looks like it's good quality because the wood looks smooth and the glass is nice and clear. It is shaped like a rectangle on four poles. The poles act as a base for the pod.

Safety:

This pod is a little unsafe because of the pier foundation which doesn't look very stable if there is an earthquake. Most of the front and back part of this pod is glass so they might easily break and people can easily see through them. The wood might also catch on fire from thunder or lightning. I think it will be safe when there is a tornado because the house is drilled to the ground so it won't easily fly off.

Manufacturing:

This pod can be shipped to the site with a truck, and installed by a crane onto a pier foundation. A pier foundation is a collection of large cylindrical columns to support the a structure. It stands several feet above the ground. This pod can be assembled easily because it is only two parts.



Ergonomics:

It is comfortable to use because it is small so it easy to get around in. If I were to change it, I would change it to be a bit bigger because maybe the user wants an extra room or space for work or just a living space. I would add a bathroom inside because it will be hard to go outside every time they need to use the bathroom especially if the weather is cold. I would also add a garage in case the user has a car and needs to park their car.

RESEARCH – POD ANALYSIS 3

Environment:

This pod can be run on wind or solar power which is good for our environment because it saves electricity. The metal roof is made with 100% recycled material making it an eco-friendly product. This pod is portable because it can be moved around by connecting it to a car and driving it to your next location.

Function:

The product does do the job it was intended because it has all of the things a person needs in a house: a kitchen, bedroom, and a living space. It also has a nice porch to sit down on when the weather is nice. This pod can be run on wind or solar power which is good for our environment because it saves electricity.

Cost:

I think this will be a little expensive because it is made out of good and expensive materials and it looks good because of its colors and design. I think it was also expensive to make because they had to add a lot of dimensions to this design like the wheels and the roof. It is a good value for the money because it has excellent protection from the weather and it can be transported around on wheel.

Manufacturing:

This pod is made out of cedar wood on the outside walls which is good because it stands up to weather conditions better than other traditional wood walls. The roof is a standing metal seam. The metal roof helps to shed off rain, reflect heat and ignore snow and ice. This can be easily transported around because it has wheels and can be driven around by a car.



User:

This pod is made for people who like to travel by road so they can attach this pod to their vehicle and can take it with them. It is also made for people living in harsh weathers because it is made out of materials that can help protect them from the weather. It attracts its customers with its great design and colors and the front porch also gives it a modern look.

Aesthetics:

This product does look good because of the way it's designed and colored makes it look appealing. The color and texture of the wood gives it a modern look with the color of the door. It does have a good quality finish because it is made with good materials. It is shaped like a rectangular house with a triangle for a roof.

Safety:

This pod is very safe because of the advanced materials it's made of that helps keep out weather conditions, but people might easily break in from the windows and the door. I think the house has been made then the roof has been attached then the porch. After that they attach the wheels to the bottom of the pod. This product does meet safety standards because it is very sturdy.

Ergonomics:

This pod is comfortable to use because it is small and it easy to get around in. If I were to change it, I would change it to be a little wider because it seems too narrow to live in. I would also add a garage in case the user has a car and needs to park their car.

DESIGN BRIEF

How to Write a Design Brief

With the information you know about the project, write a design brief. Remember the brief must be short and to the point. It must explain what you will be making and why?

- Write a detailed statement along with 4/5 main points to consider for what you need to do to create a solution for your problem. The Design Brief is a short statement of what you are going to make, why you are going to make it, and for whom you are making it for. It should be an open ended statement.
- **MAKE SURE YOU COVER: WHO? WHAT? WHY? WHERE? WHEN? HOW???**

A good Design Brief might be something like this...

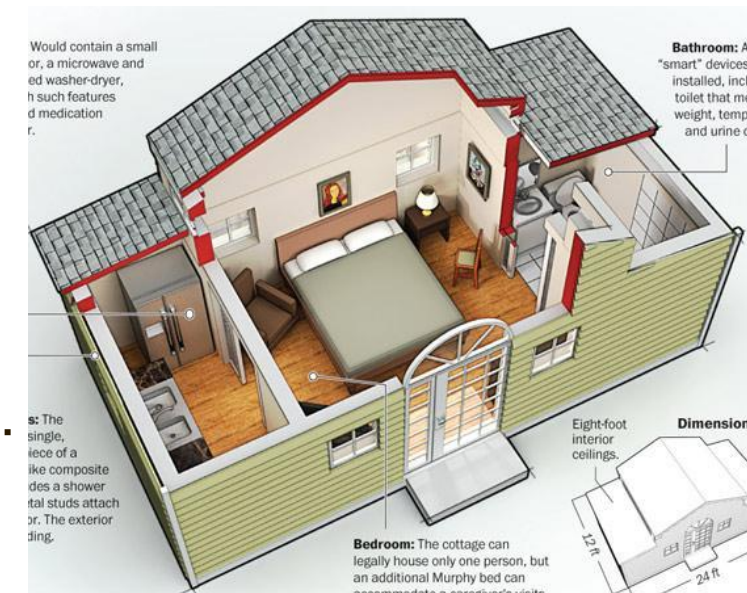
"Teenagers have very busy lives. School, family and social activities mean that being punctual is very important.

I will design and make a wall clock that will be appealing for teenage girls. It will be a modern design and will be suitable for a teenage girl's bedroom. Because the design will appeal to teenage girls, then they will be more likely to look at it, read the time and therefore not be late.

A poor example would be something like this:

" I will make a football clock from plastic and print out pictures of players to use as the numbers."

Many migrant workers are living in bad conditions and don't have enough privacy. They need time to talk to their families and also some time for themselves. I will design a pod that can suit one migrant worker and will have everything they need; a bedroom, a bathroom, a living room and a garage. This will give them the privacy they need during their busy lives. A pod can be great for them because they'll have their own clean bathrooms and their own bedrooms and it will make their lives much easier to come back from their jobs and just sit alone and relax without a bunch of people all over the space. They can also take these pods around with them by disassembling them and moving them by car.



DEVELOPING IDEAS

Criterion B:

MOODBOARD



SPECIFICATION

Generic Area	Specifications	Reasoning
User	The pod should be suitable for the user needs	This is because if the user has some kind of sickness or injury the pod should not have something hard for the user to use. For example, if the user has an injury on their leg, the pod should be one floor so the user would not have to use the stairs.
	The user should take good care of the pod	This is because the pod is not fully theirs and they should be responsible of cleaning and taking care of it and they should not try to destroy or harm it. That will also help to keep them safe in case there is a storm.
	The pod should be designed based on the users job	This is because the user might have night shifts where they work at night and sleep at day so the pod should be designed for them to use it during the daytimes since they are not using it at night.
	The pod should have a suitable location	This is because there should be locations that the user needs in their daily life next to them like a grocery shop, a mall, a hospital and anything else they need in order to live.
Aesthetics	The pod should have a garage that can fit a car	This is because the user might need a garage to park their car if they work as a driver so they don't have to go park it somewhere faraway.
	The pod must have a bathroom with a toilet and shower	This is because they need to clean themselves so they need a bathroom with a sink for washing their hands, a shower stall or tub for cleaning themselves and a toilet for doing their business. It will give them their right to hygiene and cleanliness.
	The pod must have a bedroom	This is because they need their rest after a long day of work and they need a room where they can just relax and they need a bed to sleep in.
	The pod should already be furnished	This is because the user might not have any furniture because the user probably shares the furnitures with other workers in the place where they live. So it needs to be furnished with a bed, chairs, tables and etc.
	There could be an extra room in the pod	This is because the user might need a room for a workspace to do something extra for their job or maybe a room for a hobby they have, such as a sport or watching movies or etc.
Function	There could be curtains or blinds on the windows	This is because the user might not like the sunlight when they wake up or they just want their house to be dark so there can be something that can cover the windows to block out the sun.
	There must be only one floor in the pod	This is because there will be only one worker living in the pod so the worker doesn't need much space. This is also better because maybe the worker is old or tired so it will be hard for the worker to go up the stairs
	The furniture should be fitting for one worker	This is because the worker does not need large furniture since there is only one person living in the pod and it would be a waste of money if large furniture is bought.
	The pod should have an A.C or heater	This is because the user needs a comfortable atmosphere inside their house so if it is hot in the country that they are staying in, there must be an A.C so they can stay cool, and if the country they are staying in is cold, then the pod should have a heater to keep him/her warm
Ergonomics	The pod should be close to the users job	This is because it will be easier for the user to get to their job on time. It is also better because some workers don't have cars to drive to work so it's better because they can just walk to their jobs.
	The pods furniture should be comfortable	This is because the user will come back from their jobs feeling tired and they need to relax at home so they need comfy furniture to use
		This is because the user should respect the countries laws and cultures and try to

SPECIFICATION

Generic Area	Specifications	Reasoning
Environment	The pod could be made of recycled materials	This is because it will help our environment by using materials that are recycled so we don't waste our resources. It is also good because this house is being used for 1 person only and is small so it doesn't need to be made out of expensive materials
	The pod must be suitable to the environment the user is living in	This is because if it is not suitable to the environment it might break down or get destroyed. So if the user is living in a country where it rains a lot so the pod needs to be well protected
	The location of the pod must not disturb anybody living near it	This is because if the pod was placed next to an environment with animals living in it, the construction and noise might disturb them. So the pod should be built in a place that is not very crowded so the user and the people around the pod will not be disturbed
	The pod could work on solar power	This is because it can help our environment by saving our electricity and by using solar rays to power the pod. This is also helpful if the user is living in a country like Qatar which is very hot because they can easily get strong sun rays.
Safety	The pod should be made out of materials that can protect it from the weather	This is because if it is not made with materials that can resist the weather changes, it might fall apart or get destroyed so it should be protected with suitable materials for all weathers such as rain, snow, winds and etc. Like metal, concrete, glass, etc.
	The pod must have strong locks on all of its doors and windows	This is because it will help prevent burglars or intruders to enter the pod. It also keeps it safe because the locks on the doors and windows could keep out strong winds from entering the pod during a storm.
	The pod should be made out of good quality material	This is because if it is made out of poorly made materials it might easily fall down or get destroyed by the weather. Robbers can also easily break in if the house was made of some bad quality wood or metal.
	The pods windows should be made out of laminated glass	This is because this type of glass ensures that an object colliding with the glass does not hurt the user and spray glass shards inside the pod. This will help keep the user safe in case there is a hail storm or if the pod was under attack.
Manufacturing	The pod should be supported by a pier foundation	This is because a pier foundation is a collection of large cylindrical columns which are driven into the ground which helps support it by assembling the pod on it. This will help the pod be easier to install onto the ground and to move around.
	The furniture could be handmade from recycled materials	This is because it will help to save materials and help the environment. It is also better if it is handmade because the user can pick how they want the furniture to look like, so it is based on the user's opinion.
	The pod could be made in a factory and then brought to the construction site	This is because if it is built in a factory it will be in better condition because it is being built indoors but if you build it outside, the heat will affect the construction like a hot country like Qatar.
	The pod could take 2 months to build	This is because it takes an average of 6 weeks to build a pod house and it shouldn't take too long because it is only one floor and it will be in different parts that will be assembled together in the construction site.
Cost	The pod could be a little expensive to make	This is because of the price of the materials that will be used to make the pod. It is also expensive because of the furniture that will be used inside the pod and the water, plumbing, and utilities and etc.
	The labor should not be very expensive	This is because the pod is small so it shouldn't cost a lot to make and it would be made of simple and recycled materials so it doesn't require a lot of workers to make it because it can be assembled together easily.
	The company should pay for the pod's rents	This is because it is in the contract that is between the worker and the company that the company should provide the rents for the pod. Also the company is making the user pay for the pod every day and the user might not have enough money to pay for the rents.

DESIGN IDEA #1 (chosen design)

Own Questions:

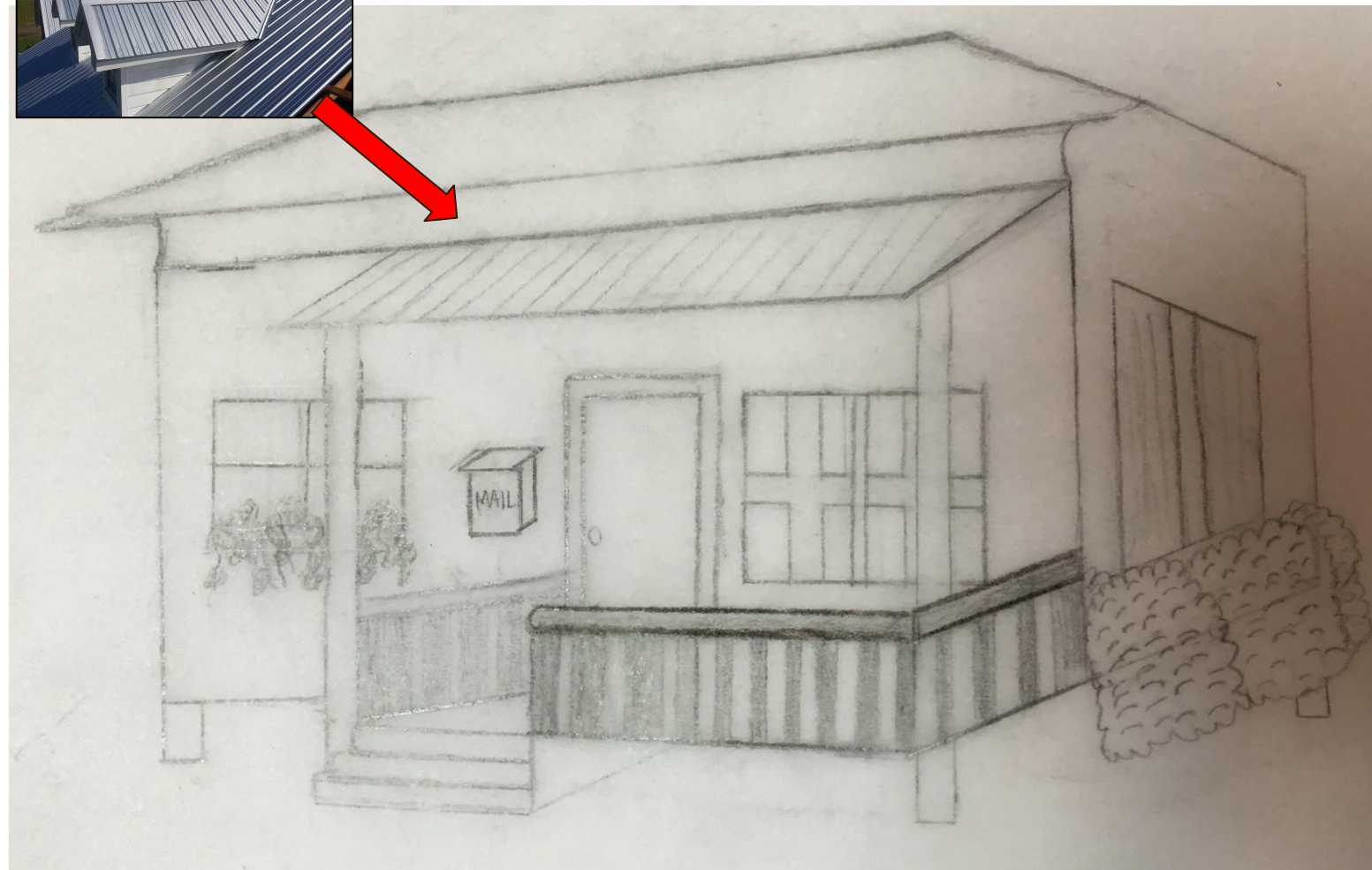
The plants will be added to give a cool and fresh atmosphere and it will be great because it will provide the user with a hobby in his/her free time like watering the plants and taking care of them. The pod might need some paint touch ups after a few years because of the weather conditions.

Function:

This pod has one entrance in the front which is the main door in which the user can go in or out with. There are 4 windows, 2 of which can be opened and the other 2 cannot. This pod design will do the job it was intended because it has all of the things a person needs in a house: a kitchen, bedroom, and a living space. It also has a nice porch to sit down on when the weather is nice.

Environment:

The environmental impact of this pod design is that it does waste some materials such as the metal for the roof but at the same time it does save some materials because it will be using recycled glass for the windows which will help the environment by saving materials and recycling.



Materials:

This pod will be made out of metal (for the roof), steel frames (for structures), panels made of wood, cement and etc. The windows will be made out of recycled glass. The pods roof will be made out of metal because it helps keep out the rain and all the heat that is produced by the sun's rays. The steel frames will be used for the main structure which is a strong material and it will provide support to the structure of the pod. The walls will be made out of plaster or concrete.

Manufacturing:

This pod will have a support system on the bottom where it is help up by 4 strong pillars. It will be made in a factory then shipped to the construction area because it can be disassembled into 3 different parts; the porch, the support pillars; and the house itself. It will be assembled by drilling the support pillars into the ground and by attaching the porch onto the front of the house.

Ergonomics:

This pod will be 5m (width) by 10m (length) because I think that this is a good size for one person and it will fit all the rooms that they need. This pod will have one floor because I don't think a person will need more than one floor since they are living by themselves and it will also be hard for them to go up and down the stairs if they are old or tired. This pod will be comfortable to use because it is small so it easy to get around in.

User:

This pod design does meet the needs of my target user because it has everything the user needs such as a bedroom, a bathroom, a kitchen and a living room. It also has windows, doors, plants, a mailbox and a porch with a nice view. This gives the user all he/she needs to live a good and happy life.

Aesthetics:

This pod is a good design because of the way the porch outside is designed with the plants and flowers makes it look appealing. I think the metal for the roof is a good and safe material and it has a good color and texture and it gives it a modern look. The main color of the pod will be a peachy/sandy color because in Qatar the sandstorms and dust can change the color of the house so this color will help blend in with the dust and sand.

Safety:

This pod will be safe to live in because it will be made out of materials that will keep out weather conditions. The porch might not be safe because it might break off in a storm but there is a strong roof over it will is made out of metal, which helps keep out the rain and moisture, as well as reflect heat produced by the sun's rays, which is an excellent choice for if the user is living in a hot country like Qatar. This pod is drilled into the ground from the pillars underneath which helps it withstand a storm or strong winds.

DESIGN IDEA #2

Own Questions:

The plants will be added to give a cool and fresh atmosphere. The pod will be made out of wood so the user needs to make sure every few years that the wood is still steady. The pod might need some paint touch ups after a few years because of the weather conditions.

Function:

This pod has one double door entrance in the front and it is the only door in which the user can go in or out with. There are 2 large windows on either side of the pod. This pod design will do the job it was intended because it has all of the things a person needs in a house: a kitchen, bedroom, and bathroom. However it does not have space for a living room because it is quite small. It also has a nice space outside of the pod with a table and chair to sit and relax.

Environment:

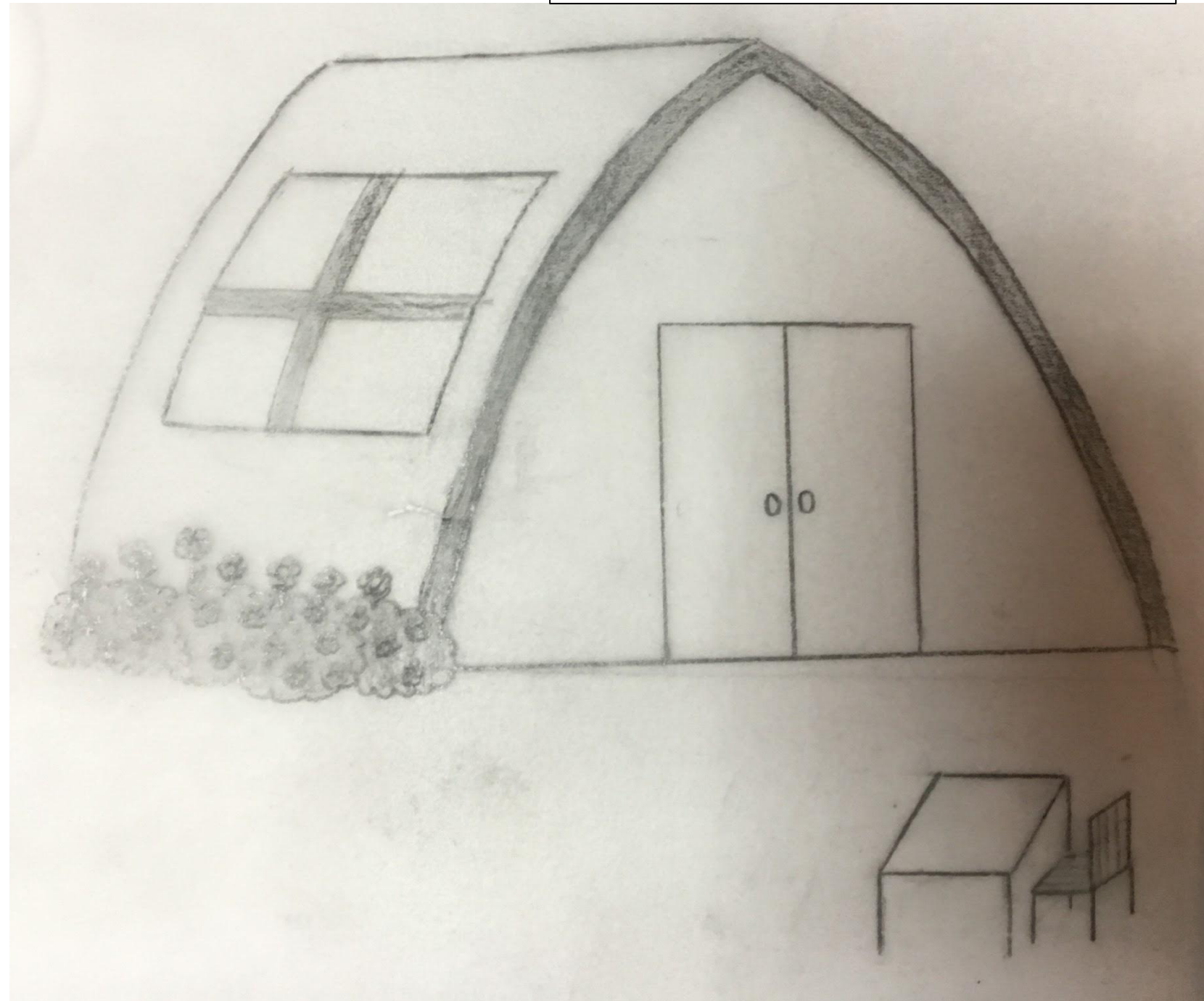
The environmental impact of this pod design is that it does not waste a lot of materials because it is small so it requires a small amount of materials to make it. It helps the environment because it will be using recycled wood and glass which helps to save resources and save our trees

User:

This pod design is for a user who does not need lots of space to live in. This can also be for a user who likes the outdoors and will want to sit outside and relax, It also has windows, doors, plants, and a table and a chair outside, This gives the user all he/she needs to live a good and happy life.

Materials:

This pod will be made out of polished wood for the outside. The windows will be made out of recycled glass. The steel frames will be used for the main triangular structure which is a strong material and it will provide support to the structure of the pod. The walls will be made out of plaster or concrete. The wood for the outside of the pod will be recycled.



Aesthetics:

This pod is a good design because it looks different and unique and I think it's shape gives it a very outdoor type of look. The main color of the pod will be a peachy/sandy color because in Qatar the sandstorms and dust can change the color of the house so this color will help blend in with the dust and sand.

Manufacturing:

This pod will be made in a factory then shipped to the construction area because it is small and it is not very heavy so it can be moved from place to place. The frame of this pod will be made first because it needs to be kind of like a pyramid like shape then the walls will be assembled and then the windows and the doors.

Ergonomics:

This pod will be 5m (width) by 8m (length) but I feel like this pod is a little too small for one person but I still think it will work well. This pod will have only 1 ground floor. The roof is slanted upwards and is shaped like a curved triangle. I took inspiration from the shape and dimensions of a camping tent and this style will fit perfectly for the outdoors.

Safety:

This pod will be safe to live in because it will be made out of materials that will keep out weather conditions. The slanted roof will help keep out the rain and moisture, as well as reflect the heat produced by the sun's rays, which is an excellent choice for if the user is living in a hot country like Qatar.

DESIGN IDEA #3

Own Questions:

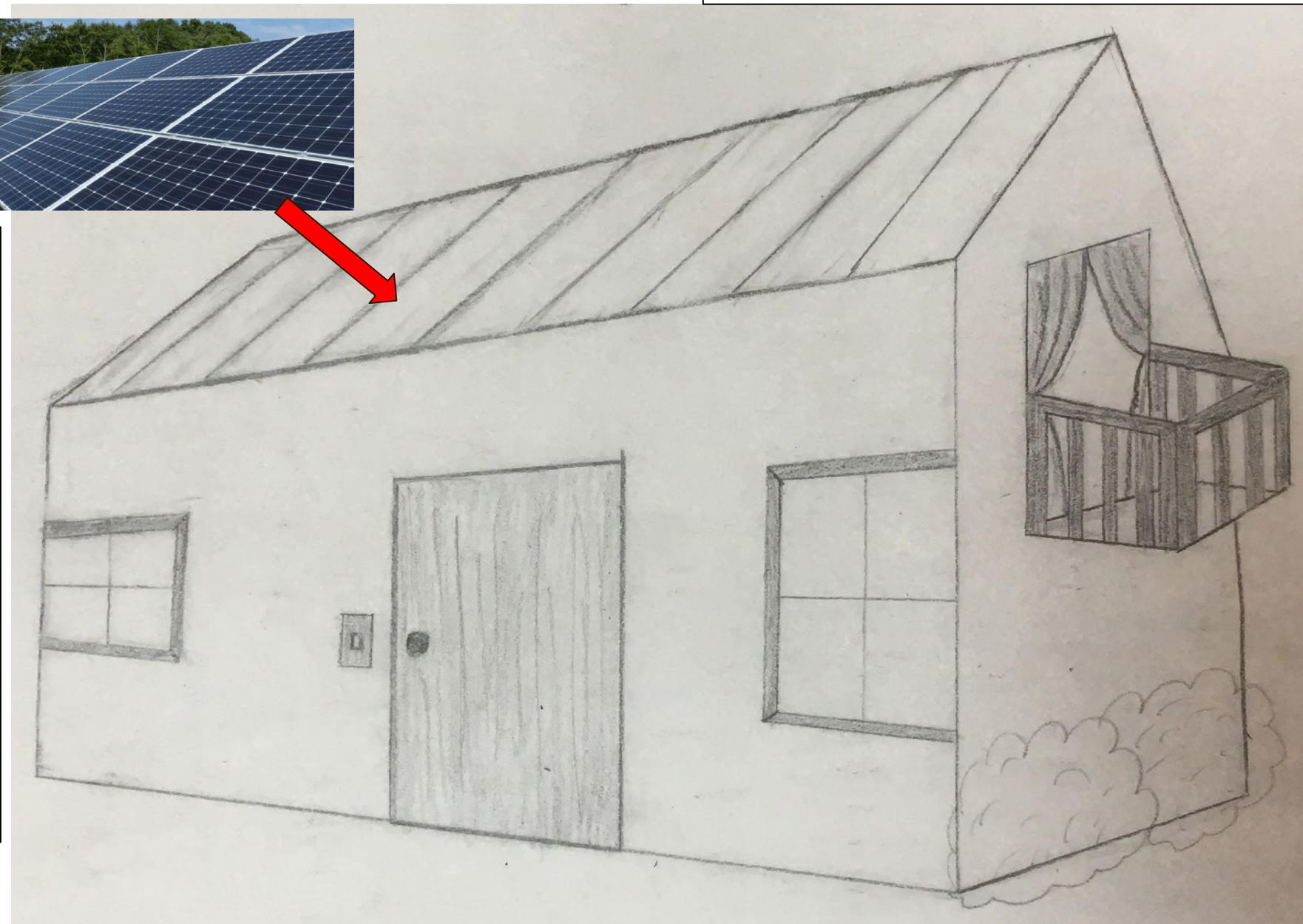
The solar panels should be brought from a trustable brand. The pod might need some paint touch ups after a few years because of the weather conditions.

Function:

This pod has one entrance in the front which is the main door in which the user can go in or out with. There are 2 windows. There is also a doorbell which will also be powered by the solar panels. This pod design will do the job it was intended because it has all of the things a person needs in a house: a kitchen, bedroom, and a living space. It also has a balcony on the second floor where the user can go and sit down when the weather is nice.

Environment:

This pod is very sustainable because it will have solar panels which will help generate its own energy using the sun's rays so it does not waste resources like electricity. This will also be more efficient since the worker is living in a very hot country like Qatar where the sunlight is very strong.



User:

This pod design is for a user with a higher paying job because the solar panels are quite expensive so not a lot of users can afford this type of pod. It does meet the needs of my user because it does have everything the user needs such as a bedroom, a bathroom, a kitchen and a living room

Aesthetics:

This pod is a good design because of the way it is designed with the plants makes it look appealing. I think the solar panels for the roof is a good and safe idea because it helps to supply electricity. The balcony gives it a modern look and is a great way for the user to sit and relax outside. The main color of the pod will be a peachy/sandy color because in Qatar the sandstorms and dust can change the color of the house so this color will help blend in with the dust and sand.

Materials:

This pod will be made out of solar panels for the roof, and steel frames for the structures. The windows will be made out of recycled glass. The balcony fence will be made out of metal. The steel frames will be used for the main structure which is a strong material and it will provide support to the structure of the pod. The walls will be made out of plaster or concrete.

Manufacturing:

This pod design will be made on the construction site where the pod will be located because this pod cannot be disassembled into different parts and it will also be hard to move around. The pod house will be made first then the balcony will be made and attached to it.

Ergonomics:

This pod will be 4m (width) by 12.5m (length) because I think that this is a good size for one person and it will fit all the rooms that they need. This pod will have 2 floors because I think this will be a suitable pod for somebody who likes sports or exercising so they can use the stairs a lot. This pod will be comfortable to use because it is small so it easy to get around in.

Safety:

This pod design will be safe to live in because it will be made out of materials that will keep out weather conditions. The balcony fence will be made out of metal for safety because if we use wood it might break off or catch on fire during a thunderstorm. It will also more likely to be eaten by woodlice or other insects.

DESIGN IDEA #4

Own Questions

The garage could also be opened mechanically instead of manually but more money will have to be spent.

Function:

This pod has two entrances, one in the front which is the main door in which the user can go in or out with, and there is one in the back which leads into the kitchen. There are 4 windows. This pod design will do the job it was intended because it has all of the things a person needs in a house: a kitchen, bedroom, and a living space. It also has a garage where the user can go park their car inside.

Environment:

The environmental impact of this pod design is that it does waste some materials such as the metal for the garage and the bricks for the roof but at the same time it does save some materials because it will be using recycled glass for the windows which will help the environment by saving materials and recycling.

User:

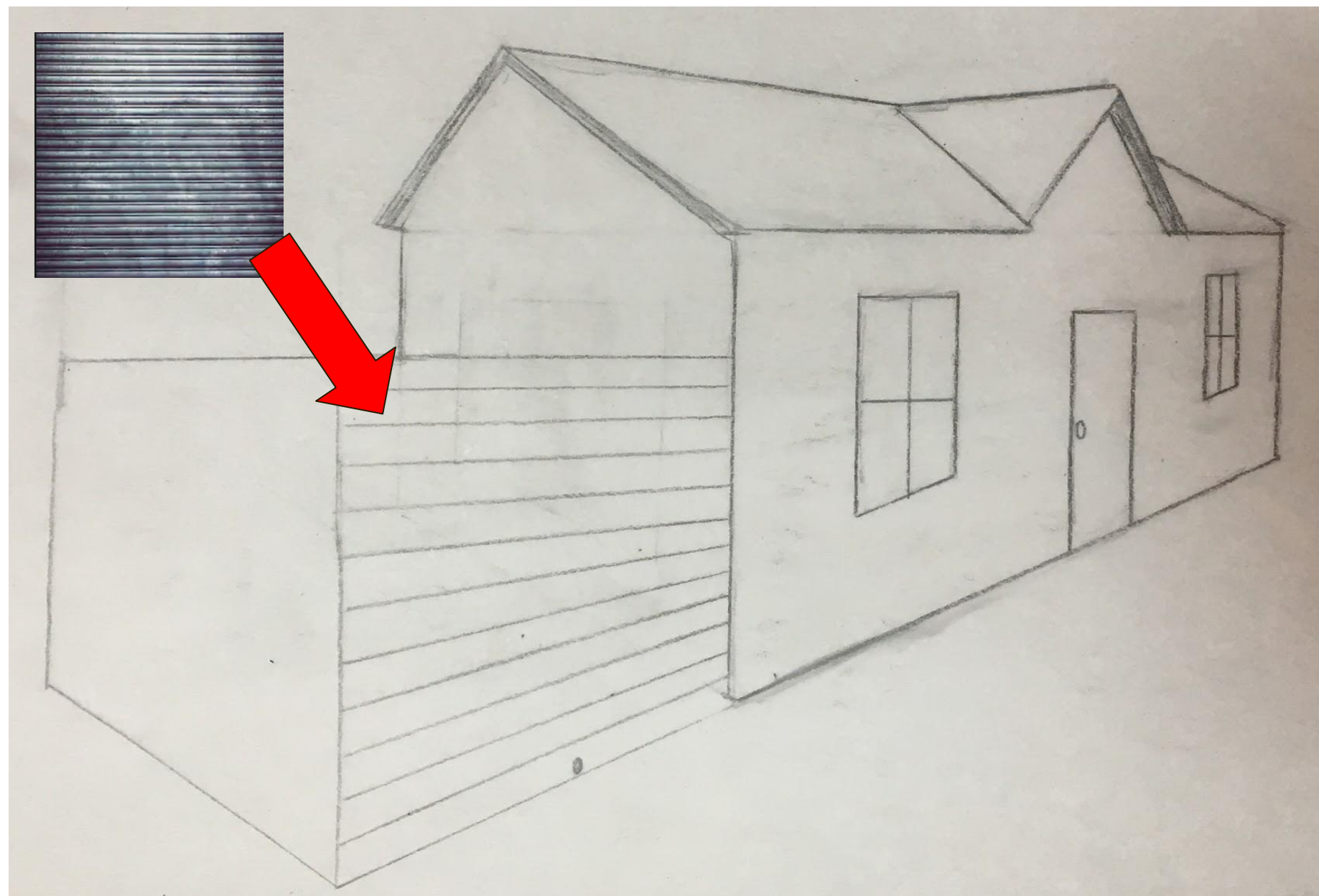
This pod design is for a user who works as a driver or a job that requires a car because it has a large spacious garage where they can park their car and maybe also store some of their stuff in their too. This is a large design so it can be for a user who has a job where he/she has to bring something home and work on it so it will have space for an extra room for that.

Aesthetics:

This pod is a good design because of the way it is designed with the garage makes it look modern. The triangular roof in the middle gives it a good look and it also provides the user with an attic if they wanted to have one. The main color of the pod will be a peachy/sandy color because in Qatar the sandstorms and dust can change the color of the house so this color will help blend in with the dust and sand.

Materials:

This pod will be made out of bricks for the roof, and steel frames for the structures. The windows will be made out of recycled glass. The garage will be made out of recycled metal. The steel frames will be used for the main structure which is a strong material and it will provide support to the structure of the pod. The walls will be made out of plaster or concrete.



Manufacturing:

This pod design will be made on the construction site where the pod will be located because this pod cannot be disassembled into different parts. The pod house will be made first then the garage will be made separately and then it will be attached to the pod. The garage will be opened using a key in which the user will have to insert it into the slot and then lift up the door

Ergonomics:

This pod will be 4m (width) by 12.5m (length) but I feel like this pod is a little too big for one person because of the garage included. This pod will have 2 floors which can be accessed by stairs. The garage will be 3.5m (width) by 3.5m (length) so it can fit a car and maybe some other stuff too.

Safety:

This pod design will be safe to live in because it will be made out of materials that will keep out weather conditions. The garage will be made out of metal for safety because the metal will reflect off heat rays from the sun which might harm the car inside so it also keeps the car safe from weather conditions

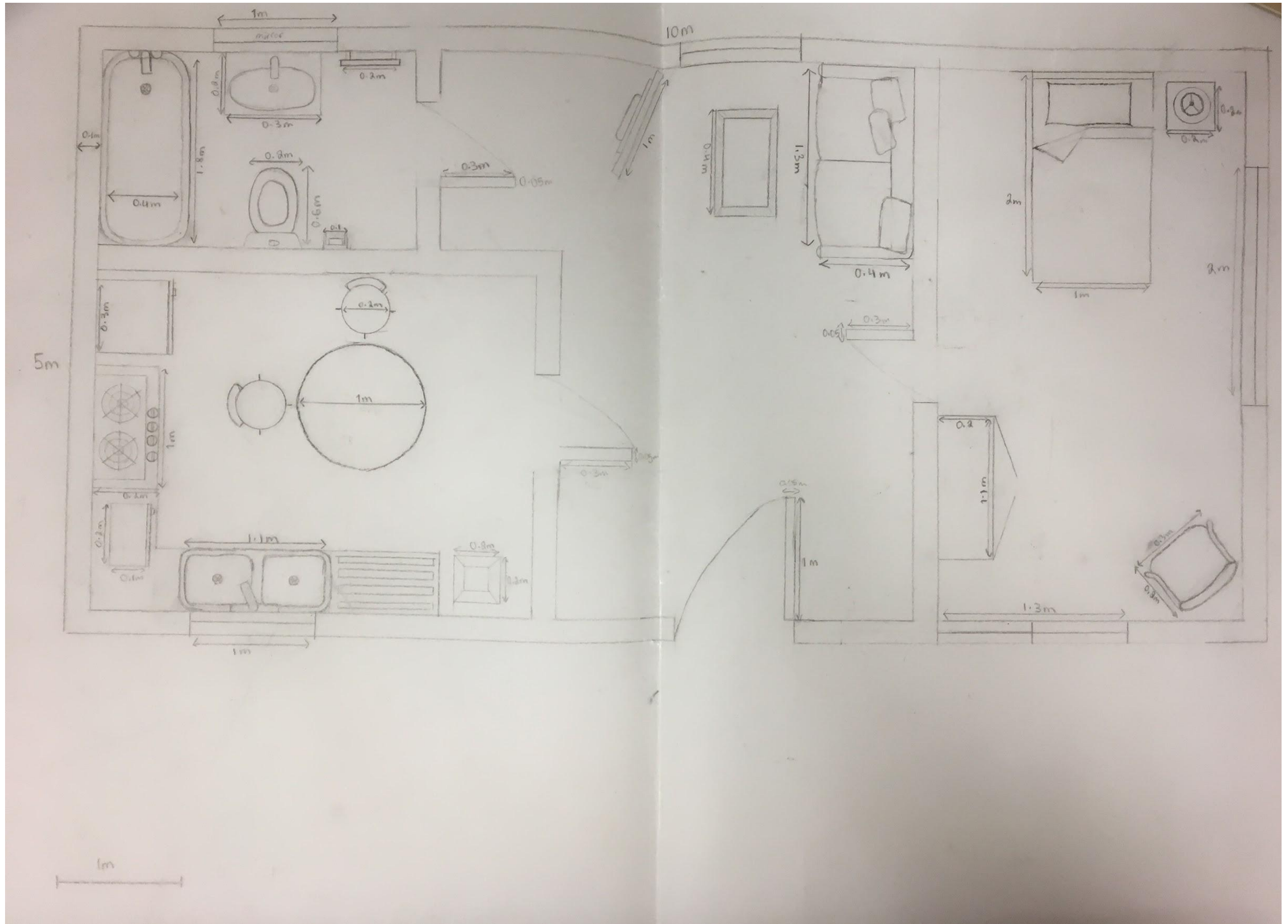
Analysis against specification of ideas

Specification Points	Design 1	Design 2	Design 3	Design 4
The pod should be suitable for the user needs	/	X	/	/
The pod should be designed based on the users job	X	X	X	/
The pod should have a suitable location	/	/	/	/
The pod should have a garage that can fit a car	X	X	X	/
The pod must have a bathroom with a toilet and shower	/	/	/	/
The pod must have a bedroom	/	/	/	/
There could be an extra room in the pod	X	X	/	/
There could be curtains or blinds on the windows	/	/	/	/
There must be only one floor in the pod	/	/	X	X
The furniture should be fitting for one worker	/	/	X	X
The pod should have an A.C or heater	/	/	/	/
The pod should be built based on the culture and laws of the country	/	/	/	/
The pod could be made of recycled materials	/	/	/	/
The pod must be suitable to the environment the user is living in	/	/	/	/
The location of the pod must not disturb anybody living near it	/	/	/	X
The pod could work on solar power	X	X	/	X
The pod should be made out of materials that can protect it from the weather	/	X	/	X
The pod should be made out of good quality material	/	/	/	/
The pod should be supported by a pier foundation	/	X	X	X
The furniture could be handmade from recycled materials	/	/	/	/
The pod could be made in a factory and then brought to the construction site	/	/	X	X
The pod could take 2 months to build	/	X	/	/
The pod could be a little expensive to make	/	X	/	/
The labor should not be very expensive	/	/	X	28 /

Final Design

I chose design 1 because it was the most one that met my specification points and it seemed like the most suitable for this project

FLOOR PLAN (for design #1)



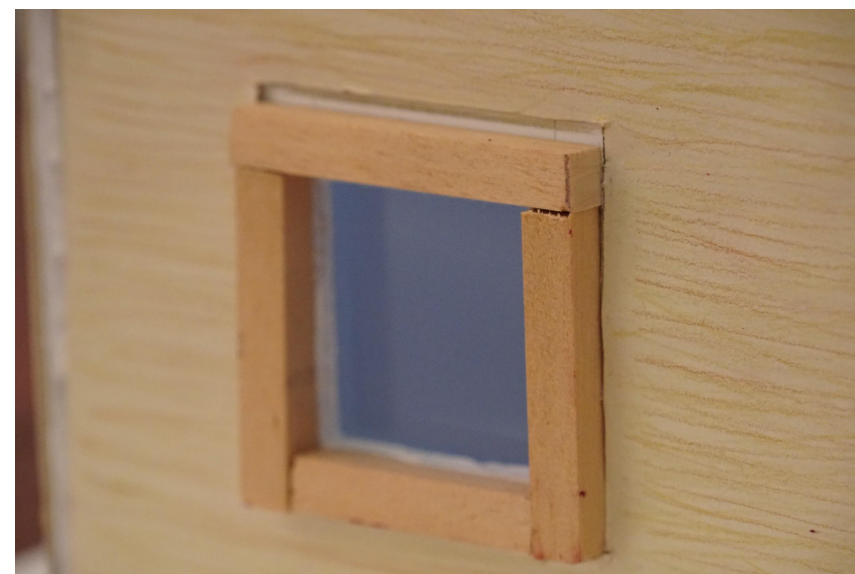
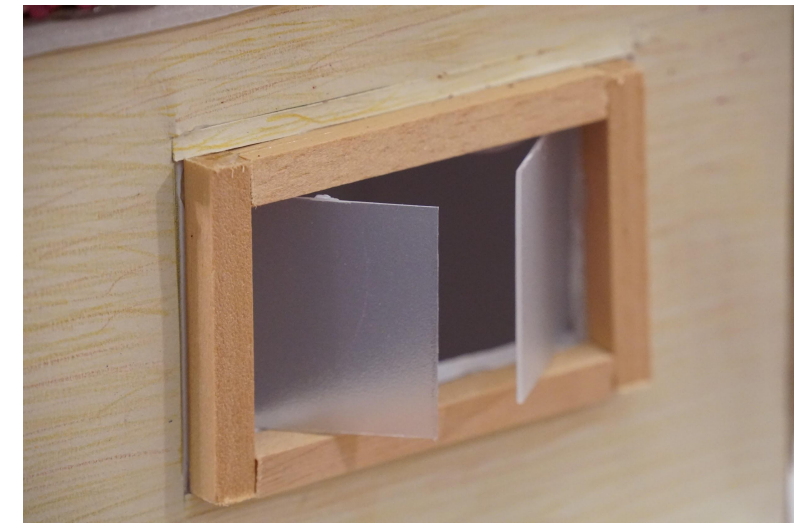
CREATING THE SOLUTION

Criterion C:

3D MODEL - Front, top, & back view



3D MODEL - Balcony & window



Before

(Plan drawing)



After

(Final model)



3.

Changes and Improvements:

1. I have changed the shape of the roof so it goes down into two slopes sideways because I felt like this roof style looks more modern and is much more suitable for protection against rain because the water will slide down the roof and onto the ground. I also made the roof of the main part of the house also metal because in my design idea I only drew the balcony/porch roof metal but I felt like it would be better protection against weather if I made the roof of the house metal too.
2. I have added borders around the windows using wood because the color and texture of the wood matches the roof's color and gives it a more modern look.
3. I did not add the stairs or the pier foundation because I felt like they weren't necessary in a country like qatar because the ground is all sand and this pier foundation is better used in mountainous countries. I think it still looks great without the base system and the porch looks better being on the same level as the house.
4. Instead of plants underneath the windows, I added a pot of plants hanging from the balcony roof and I think this is more practical because it will be easier for the user to water the plants without making a mess or wasting water

EVALUATING

Criterion D:

EVALUATION AGAINST SPECIFICATION

Design Specification points	Did your final design meet the specification point?	How can the design be improved to meet the success criteria
The pod should be suitable for the user needs	Yes	Yes, because I have provided everything my user wants. For example, my user doesn't like a lot of sunlight so I have only made 4 windows with a max of one window in each room.
The user should take good care of the pod	Yes	Yes because I have included plants in which the user can spend his/her freetime watering and taking care of them.
The pod should have a suitable location	N/A	We did not discuss or research about the location of the pod house therefore I am unable to explain this specification point.
The pod should have a garage that can fit a car	No	I did not make a garage because my plan drawing did not have one and I did not have enough time. Next time I will make more tie and design a garage to make for my pod.
The pod must have a bathroom with a toilet and shower	Yes	Yes, I have included a bathroom and it has everything the user needs, a toilet, a bathtub, a sink and a mirror but I did not have time to add in the actual furniture on the inside of the house.
The pod must have a bedroom	Yes	Yes I have made a bedroom with a suitable size and it has a large window where the sunlight can come in from.
The pod should already be furnished	N/A	I did not add furniture to my house from the inside because I did not have time so I decided to keep the roof closed and decorate the outside.
There could be an extra room in the pod	No	I did not have space to make an extra room in my pod but I have included other rooms that the user does need, such as a bedroom, a kitchen, a bathroom and a living room.
There could be curtains or blinds on the windows	N/A	I did not add furniture to my house from the inside because I did not have time so I decided to keep the roof closed and decorate the outside.

EVALUATION AGAINST SPECIFICATION

Design Specification points	Did your final design meet the specification point?	How can the design be improved to meet the success criteria
The pod must be suitable to the environment the user is living in	Yes	Yes, because I have made a pod that would fit perfectly in Qatar's environment because i used a sandy color for the outside which will protect against the dust and sand (as i explained in my design idea).
The location of the pod must not disturb anybody living near it	N/A	We did not discuss or research about the location of the pod house therefore I am unable to explain this specification point .
The pod could work on solar power	No	I decided to keep this design simple because if I added solar panels it would be too expensive for a migrant worker to afford.
The pod should be made out of materials that can protect it from the weather	Yes	Yes, because I used metal for the roof and this material protects the house from rain and sandstorms that might occur in Qatar.
The pod must have strong locks on all of it's doors and windows	N/A	I did not add furniture to my house from the inside because I did not have time so I decided to keep the roof closed and decorate the outside.
The pods windows should be made out of laminated glass	Yes	Yes, because I did use laminated glass for all my windows in my pod house which is a great and sustainable material.
The pod should be supported by a pier foundation	No	I felt like it wasn't necessary in a country like Qatar because the ground is all sand and this pier foundation is better used in mountainous countries.
The furniture could be handmade from recycled materials	N/A	I did not add furniture to my house from the inside because I did not have time so I decided to keep the roof closed and decorate the outside.
The pod could be made in a factory and then brought to the construction site	Yes	Yes, because this pod can be disassembled into 3 parts, the house, the porch, and the roof so it can easily be transported to the construction site.

EVALUATION AGAINST SPECIFICATION

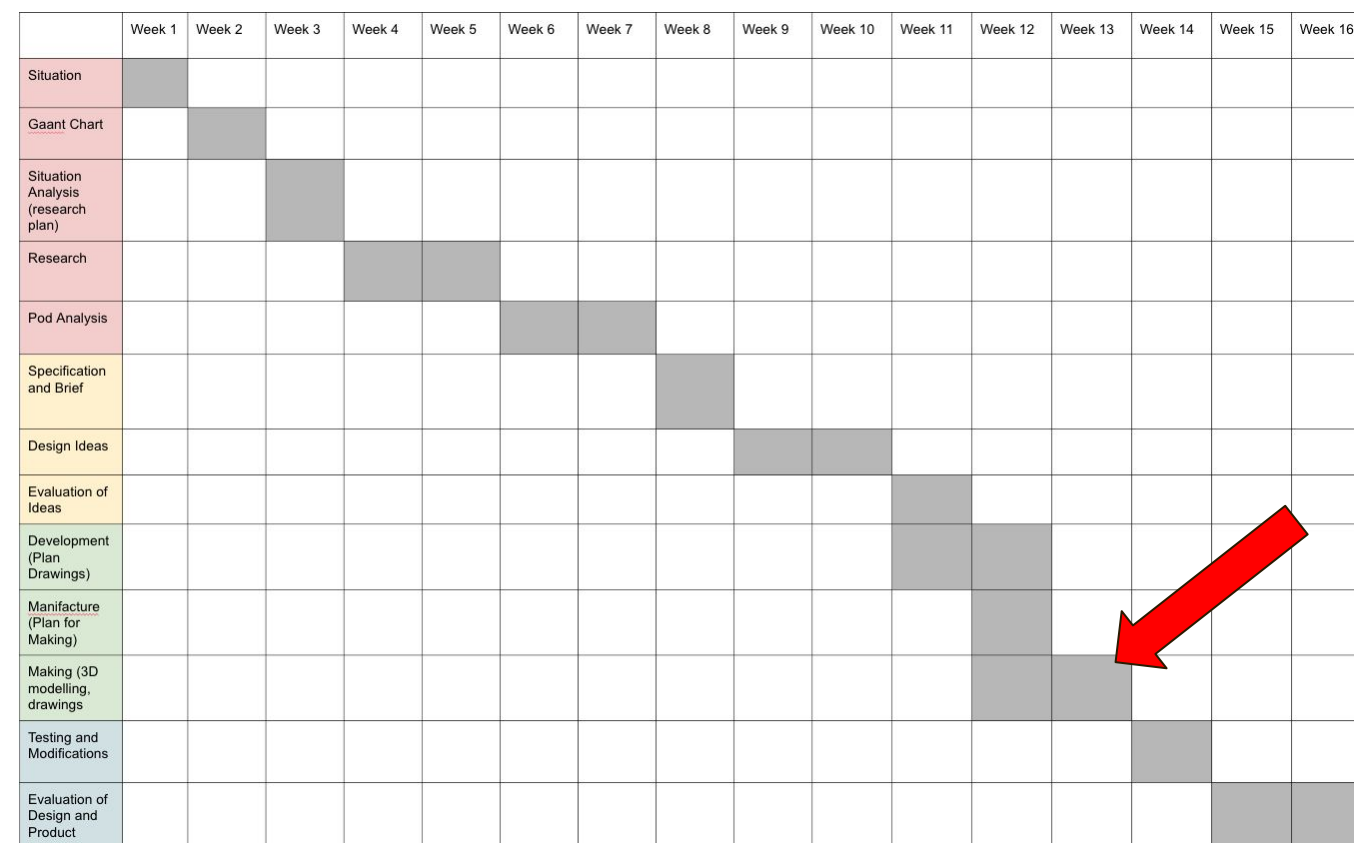
Design Specification points	Did your final design meet the specification point?	How can the design be improved to meet the success criteria
The pod should be close to the users job	N/A	We did not discuss or research about the location of the pod house therefore I am unable to explain this specification point
The pods furniture should be comfortable	N/A	I did not add furniture to my house from the inside because I did not have time so I decided to keep the roof closed and decorate the outside.
The pod should be built based on the culture and laws of the country	Yes	Yes because I have made a pod that would fit with Qatar's culture because I used a sandy color for the outside which is commonly used as a color for houses all around Qatar.
The labor should not be very expensive	N/A	We did not discuss the cost of making this pod house therefore I am unable to explain this specification point.
The furniture should be cheap	N/A	I did not add furniture to my house from the inside because I did not have time so I decided to keep the roof closed and decorate the outside.
The pod should have an A.C or heater	N/A	I did not add furniture to my house from the inside because I did not have time so I decided to keep the roof closed and decorate the outside.
There must be only one floor in the pod	Yes	Yes, I have made my house one floor with a roof and a porch/balcony.
The furniture should be fitting for one worker	N/A	I did not add furniture to my house from the inside because I did not have time so I decided to keep the roof closed and decorate the outside.
The pod could be a little expensive to make	N/A	We did not discuss the cost of making this pod house therefore I am unable to explain this specification point.
There could be curtains or blinds on the windows	N/A	I did not add furniture to my house from the inside because I did not have time so I decided to keep the roof closed and decorate the outside,

EVALUATION – IMPROVEMENTS

If I were to do this project again, I would make my pod look more unique by making it a different shape other than a rectangle such as a triangle or a lot of small shapes stuck together. I would also add grass and more decorations to the outside of my pod to make it look more attractive because I feel like it looks too plain but at the same time it does give it a more minimalistic look and it takes less work to take care of because the user doesn't need water a lot of plants or constantly clean tables and chairs from the dust and sand from the weather. I would also change the colors of my pod to make it look more appealing to the user. I might use a sky blue colour for the outside walls to make it look brighter and more unique compared to other houses to Qatar which are mostly pale yellow or white. Overall, my pod did turn out looking great at the end and is a great home for a migrant worker to live in.

EVALUATION – IMPROVEMENTS

I used organisational skills by organizing my ideas and equipment while I was planning and making my pod. This helped me with making a great and sufficient pod and with getting good grades for my slideshow too. I need to improve on my time management skills because I did not have time to do everything that I was planning to do such as making and adding furniture to my pod and that is because I focused more on cutting and sticking the wood for the porch and windows which wasted my time. As shown on my gantt chart, I have planned to spend around two lessons for the making of my pod, but that wasn't enough time so I had to come in breaks to finish building my pod and I also had to take it home in order to finish painting the roof.



I would like to learn some self-management skills to help me manage my time between making the pod and finishing my slideshow (creating the solution, evaluation, etc.) This will help me with managing my time which will help me to improve and finish my project on time.

EVALUATION – IMPACT OF THE POD ON THE TARGET USER.

Impact on the Target User

My living pod design provides my target user with everything he needs. First of all, I have provided my user with all the human rights such as:

Privacy: The user will now have his own house where he doesn't have to share everything with the other workers.

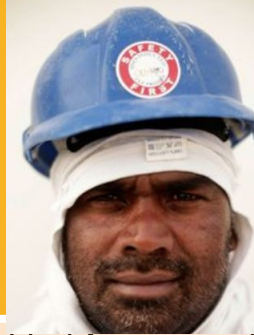
Clean water: This pod house comes with water pipes so the user will be provided with tap water and drinking water

Shelter: The user will have an appropriate home where he can stay in and be in a safe environment.

Food: I have provided a kitchen in which the user can make his own food rather than buying it outside or have the company give him food.

My pod house has 4 windows because he mentions that he doesn't like a lot of sunlight so I made sure that there was a max of 1 window per room so that he doesn't get irritated from the sunlight.

I have provided a small kitchen because my user says that he doesn't really need a kitchen but he can have a small kitchen with a microwave and a sink since he doesn't have time to cook, so I made that and also added a dining table with two chairs in case he has guests over. I didn't add a garage like he said because his job already provides him with



Concerns: Abdul Hakim needs to work for many hours a day even when he's exhausted because he needs to make money so that he can pay for his children to go to a good school in Bangladesh. His roommates make a lot of mess in the room they share. He lives very far away from his family in Bangladesh. He would like to have a room for himself where he can speak to his family in private. He does not like the light of the sun shining through his room while he's sleeping. Abdul Hakim doesn't have much time to cook because he works long hours.

Pod Design: Abdul Hakim doesn't like sunlight so there would not be a lot of windows in his pod or there could be thick blinds that can block the light out. He doesn't really need a kitchen but he can have a small kitchen with a microwave and a sink since he doesn't have time to cook. It would be good if there was an empty wall where he could practice cricket in his free time. He would also like a TV for watching Bollywood movies in his free time. He doesn't need a garage because his company provides him with transportation.

Impact on Global Context

The global context, which is the UN Human Rights - Explain how your pod helps Qatar in improving their human rights laws by providing these living pods. You must refer to the information you researched and learnt in Inquiry and Analysis.

My pod helps Qatar in improving their human rights laws because it provides workers with privacy, clean water, shelter and food (I have explained this on the left column). Now, many migrant workers in Qatar will be provided with pod houses which will provide them with everything they need, such as a bedroom, a bathroom, a living room and a kitchen all for themselves. This will make sure that all the workers on Qatar are equal also with people living in Qatar because all humans are the same and no one should have more or less rights than the other. My pod design will help the workers companies by providing sustainable designs that will fit perfectly into Qatar's environment and will respect Qatar's culture and traditions as well.