FURNITURE DESIGN AND REPAIR CENTER

The proposal is set in a dying building, one of historical significance, a construction that once symbolized innovation, experimentation and play. It's current decaying state serves as a metaphor for the goals proposed by the Center - to repair and give new life to what is damaged, amongst which is the building itself.

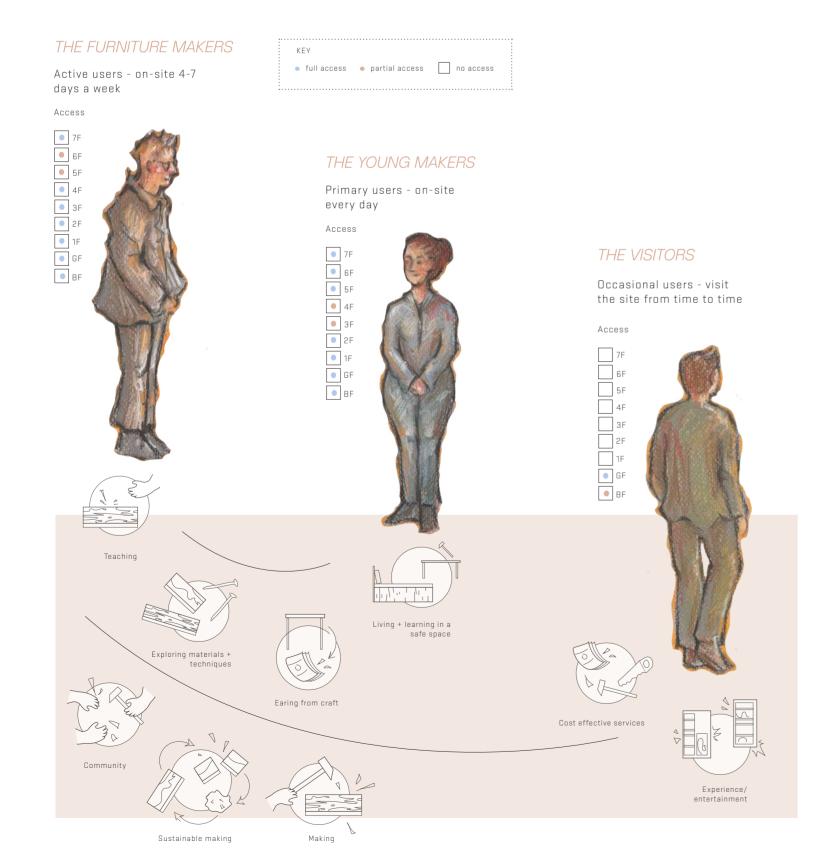
PROJECT OVERVIEW

The Center is a mixed-use, community-based creative hub, where reuse, craftsmanship and innovation are celebrated. The Center focuses on utilizing damaged, unwanted and salvaged furniture as a material, moulding it according to the needs and desires of the users. The space is amply multifunctional. It welcomes furniture makers, providing them with the space to create while also allowing them to sell their pieces. It supports marginalised young people (referred to as **young makers**) through hands-on training in furniture repair while giving them a place to live. It also engages with the wider public (referred to as the visitors), offering various furniture modifying services alongside experiential retail.

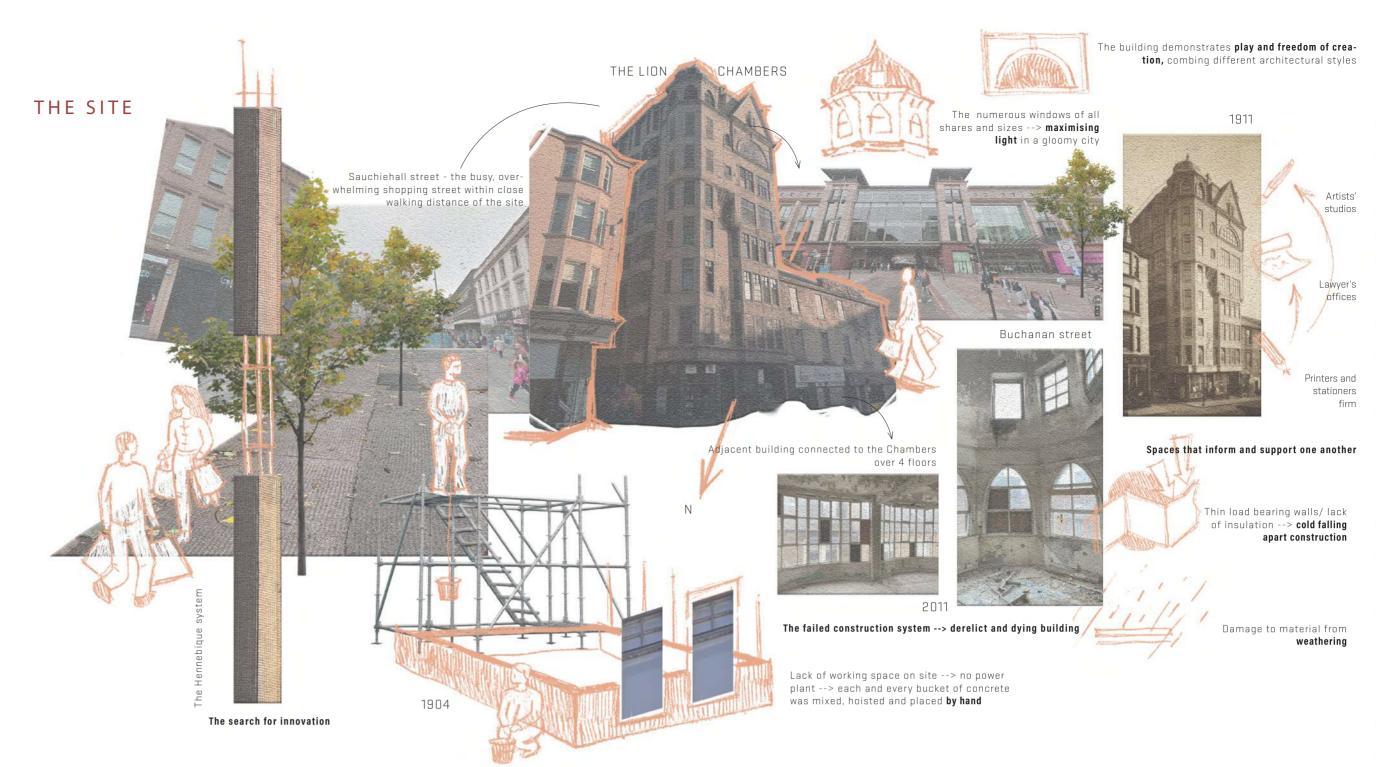
The concept is greatly informed by the building it is set in called **The Lion Chambers**. The construction of The Chamber began in 1904 and the building was completed in 1907 by the architects Salmon Son and Gillespie. During its construction, it became popular as the second in Glasgow reinforced concrete building that utilized the, coming to a great popularity, Hennebique system. The system was a method of strengthening concrete through reinforced steel bars.

Despite its glory at the start of the 20th century, The Lion Chambers did not stand the test of time showing early signs of deterioration in 1991 and dwindling more rapidly from then on. Weathering of materials had their toll, resulting in a deteriorating construction. The project aims to also preserve and expose the existing elements of the construction, to highlight that even an initially failed system can spark new ideas and prompt the creation of new meaningful spaces. All parts of the Center - the workshops, the training facilities, the retail spaces, even the users - influence one another. The result is a dynamic space, a merge of education. entertainment and community.

THE USERS AND WHAT THEY CARE ABOUT



The users of the Center shape and define the space. Therefore, the three types of users and their journeys across the areas of the space are demonstrated in further detail. This is done in different sections and formats as a way to better understand and showcase the workings of the Center (a small image and a user profile will be attached in those areas).



RESPONSE TO THE SITE

Amidst the buildings, tall and wide Reside the Chambers, that stand up high, They welcome all and ask to bring,

A broken, left, unwanted thing. You wish it fixed? Sure, we can do!

You want it changed? What do you A pop of colour or an ornate concave? We offer this and offer more

Come, show us, and we will renew!

Do browse for an item that you will adore. Those things are crafted, made with

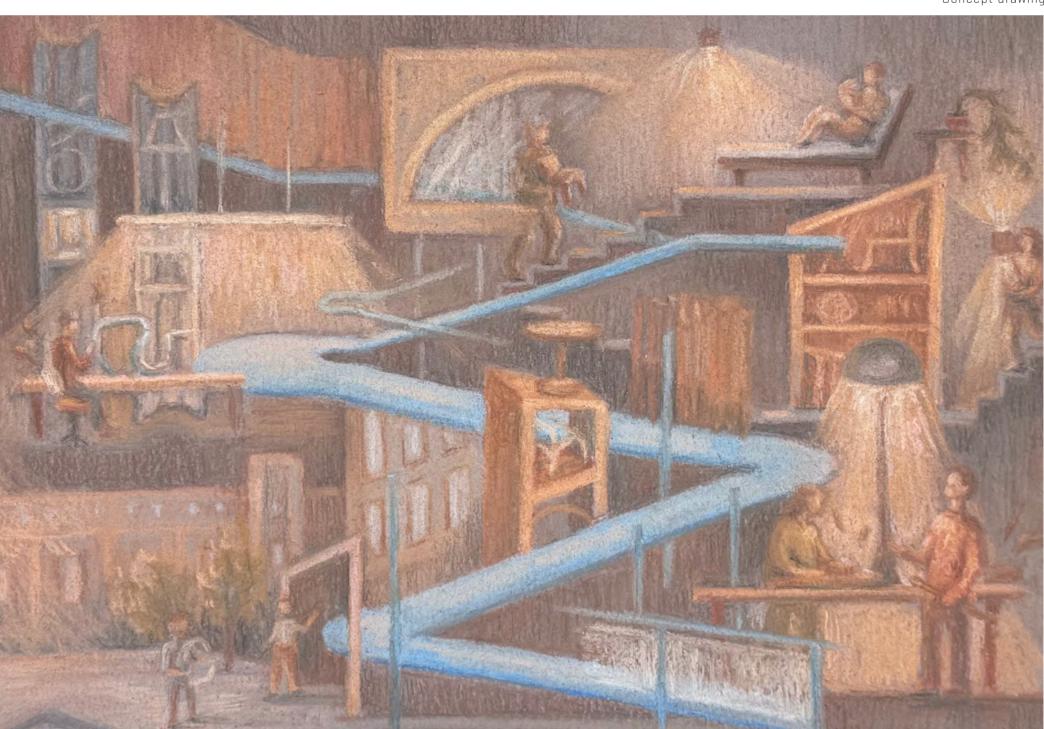
By our artists, makers here.

So welcome to this place of play, Are you all ready? Come, this way...

As a strengthen the idea of the hands-on approach, a number of the visuals were done by hand (medium soft pastel on card)

craftsmanship

experimentation

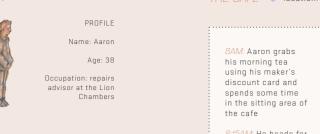


preservation and re-use
experience
new behaviour in a familiar setting
adaptability

Concept drawing

interdependent spaces





a given day

THE THREE ZONES OF THE STATION • location: BF + GF

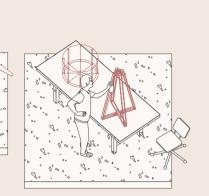




space. Has an on-site kitchen







8:20AM: The maker sets his working area, checking the tools trolley, etc. He usually works in the 'fix' station on the ground floor, but sometimes he helps out in the 'ask' station as well.

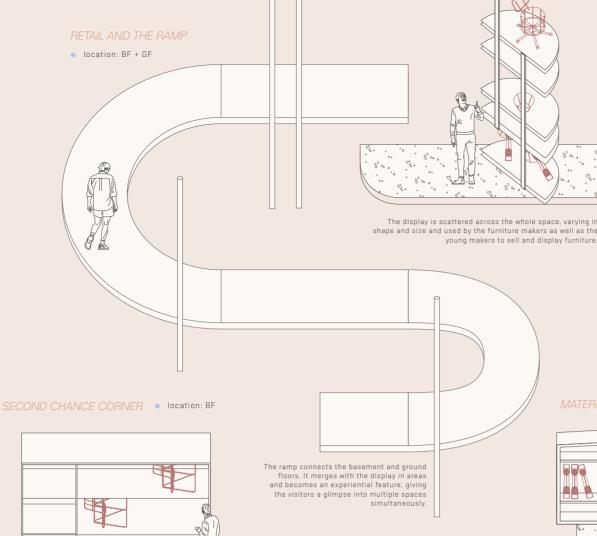
brainstorm design ideas

'Alter' - fully/partially change your furniture

encouraging accessible, spontaneous and dynamic collaboration and making. For larger pieces however, the visitors can book special appointment/con-

back/as close to its orig-

The space operates on a '**bring what you can carry**' policy - working with small and medium repairs. This responds to the site's limited footprint while Furniture that is not suitable for up-cycling/material use/is not yet assessed so is available for free taking. Alternatively, the space can be used for additional storage.



• location: BF + 1F + 2F + 3F + 4F

that making does not have to be complex, needing many large machines and highly specialised spaces Hence, a lot of the areas are targeted at creative making with easily carriable + accessible tools. However, machinery can become important and amplify the making experience which is why there are zones at the Center that have those specialised

location: 1F + 2F + 3F + 4F location: 1F + 2F + 3F + 4F







makers work with and are

MATERIAL BANK • location: 1F + 2F + 3F + 4F



Storage for materials - this can come in the form of dismantled furniture, the pieces of which are then re-used/whole furniture/ any other material type.

10:40AM: Aaron collects some materials for a pairing at the moment 12: 30PM: He finishes

product aside to be collected by a client 12: 40PM: Engages in a creative discussion with a visitor who

the repairs setting the

welcomes guest makers, giving the makers of the Center an wishes to redesign a few furniture pieces in explore other materials/forms his home

location: 1F + 2F + 3F+ 4F + 5F + 6F + 7F



Includes shared kitchens, cinema room and a small library (7F)

16.30. Aaron goes to one of the discussion spaces on the first floor for a meeting on a new event that will occur on-site. The event will be held in two weeks time and will be a site wide free up-cycle workshop lasting 3 hours

18:00. The meeting finishes and Aaron leaves for a movie night with some of the students and his colleagues. They are watching Pirates of the Caribbean this evening in the movie room on the 7th floor

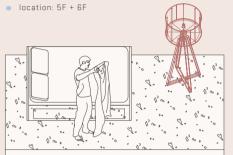
20:30. Aaron leaves for home with some home baked cookies offered by his colleague

location: 1F + 2F + 3F + 4F + 7F



Large spaces where ideas get discussed, projects get proposed, interesting furniture gets explored and so forth.





The first four floors of the Center become the prime focus of this proposal and are explored in greater detail. They serve as vivid representations of all the different user groups while also conveying the different spa-

cial functions. They become the initial points of engagement with the building, translating the intent and experience of the Center.

THE SITE ON ONE WINTER EVENING

Residential unit 1

Makers' studios

Makers' studios

Young Makers' Acad-

Young Makers' Academy

The 'Make and Break'

The 'Make and Break' station and a cafe



The model is fully mobile, each floor can be pivoted to reveal the interior. It is a way to **bring the dying** building to life in some way, even if it is not possible

to do in real life at the moment. This model was placed on the degree show for people to interact. With numerous interactions some part of the model fell off. some got damaged. I have put those parts back together, left others as they where. This became a further reinforcement of the idea that things get damaged and that is okay, they can always be put back together, changed to become something new, embraced. Such approach alludes to both the missions of the Center as well as the overall outlook on the building I am proposing, one of preservation and restoration.



The building is known for its name, there is an already set association with the name, the look of the building and its location. Hence, I decided to build on that association, keeping the iconic name "The Lion Chambers" and incorporating part of the existing name panel into the logo of the Center.

- the lamp ---> a representation of the desire of the architects to give more ligh to the building (the numerous windows)

show that the space deals with diverse

arms of the building i.e. to the name of



could give a subtle nod to the city and make the logo red (reference to the famous red sandstone). Furthermore, the logo is done using lino printing reflecting the hands-on approach in which the Chambers where constructed.



THE YOUNG MAKERS' ACADEMY

The Academy is set on the First and Second floors of the building. The First floor is allocated more towards woodwork and larger crafting with more individual workspaces in general. Meanwhile the Second floor is designed to be more textile oriented and is a more open space. Such design allows for diversity and ensures that each maker can experience all the different formats.

The Academy plays a role in the other spaces of the building, as the makers utilize the materials from the material banks situated in the Academy, participate in the meetings in the discussion spaces, make use of the tools and so forth. The result: **spaces** that inform and support one another.

WHAT WE CRAFT

As a way to better understand the inner workings of the space, I decided to explore the process of repairing a furniture item 'crafted' at the Center. This exploration links to the event brochure, assuming a potential approach taken by the young maker (Gwen) to create her furniture piece.





Setting the parameters for repairs

Working prototype

- to keep items in red in place + as they are (embracing and exposing the damage)

- the **position** of everything else (in white) is subjected to change (modification without full alteration --> sustainable approach)

goal: to create a **stable structure** without strain on elements in red. To avoid/reuse any waste



Converting adversity into opportunity

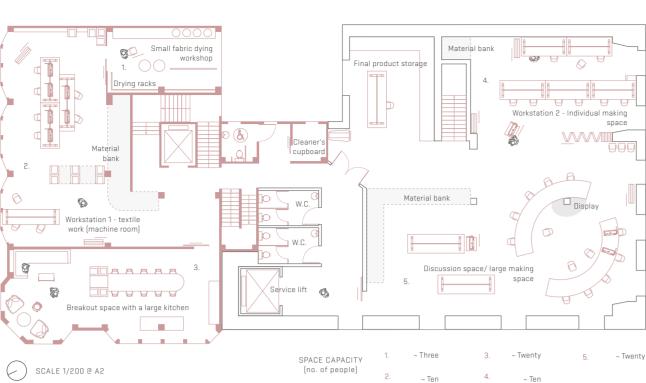


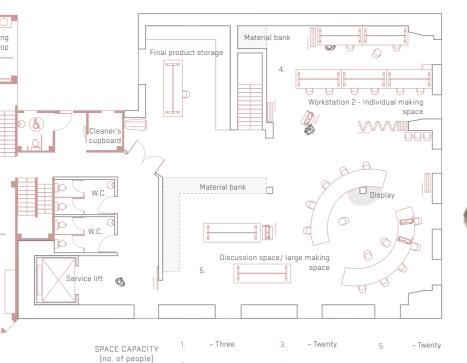


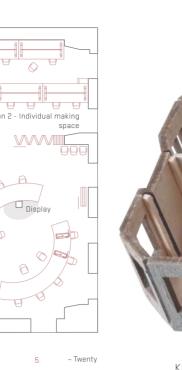












SECOND FLOOR





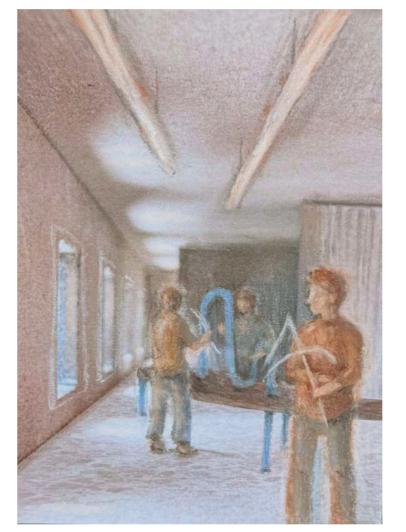








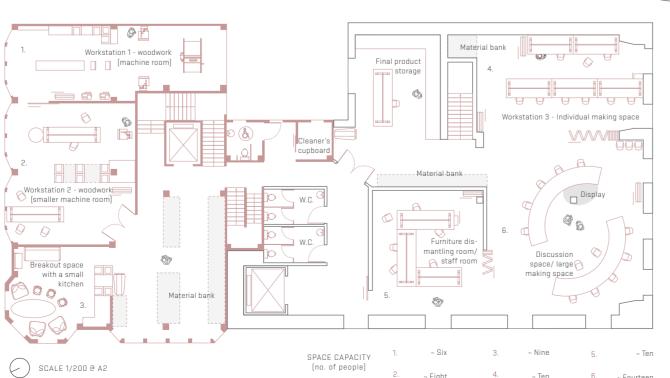
The Center gives any maker an opportunity to not only create but to **sell and promote their works** (Ground and Basement floors) through fun and playful events. This event brochure is a speculative advertisement for one of Gwen's final projects.



In the afternoon she heads to the discussion space on the First floor, engaging in collaborative work and exploring new materials showcased by one of her tutors.



A Gwen spends the morning at Workstation 2 on the Second floor, finalizing a few things for her final project and seeking feedback from her course-mate.



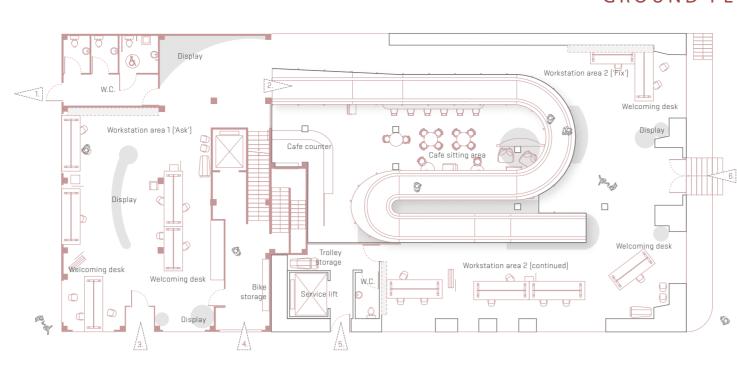


THE 'MAKE AND BREAK' STATION

The station is an experiential and sustainable retail space. It constantly changes, as the makers display and sell their various works, as the different events are held, as the space itself gets damaged and repaired by the makers, shaped into something new. Located on the Ground and Basement floors, it is accessible to all of the user types. Here, the furniture makers repair things, earning for their service; the young makers get to do an internship, getting directly engulfed into the process; and the visitors experience, play and learn (amongst other things).

Access point to the ramp Entrance for students and staff

Entrance for staff/fire exit SCALE 1/200 @ A2 Main entrance 2 (visitors)



GROUND FLOOR

REPAIRING, RETAINING, DEMOLISHING AND PROPOSING NEW STRUCTURES



This project considers both, The Lion Chambers and the adjacent building to the South-West that was originally connected to the structure (in the case of this proposal they will be viewed as one building). It is a way to honour the history of the constructions and a fortification of the idea of preservation and repairing that lays at the foundation of the Center. This idea starts with the building, hence it becomes important to review the approach(es) to repair and restoration of the construction. It is a speculative **proposal,** one that explores how the building can be water-proofed, insulated and made more energy efficient as well as sustainable. Under consideration are the basement and ground floors which serve as illustrations of the approach. However, similar systems/techniques can be utilized throughout the building.

underground pipes (vertical borehole to save space)

The extent of full damage has to be determined, including the investigation of the steel reinforcements in the concrete (can be checked via an electromagnetic cover-meter) and the concrete itself to determine the characteristics, extent of carbonation and so forth. After, cleaning should be done, removing damaged materials.

CRACK INJECTION

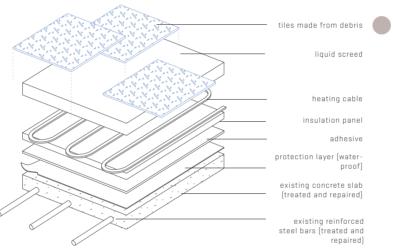
Depending on the size of a crack an appropriate material should be chosen for injection. For cracks of the size between Omm and 0.1mm epoxy resin or polyurethane can be used. For ones between 0.05mm and 0.2mm, cement binders can be used and for crack openings over 0.02mm cement suspensions are appropriate. In the case of The Lion Chambers, it is important to consider which materials would complement the existing concrete without compromising the look or the

MATERIAL PROTECTION

To remove corrosion from the steel reinforcements migrating inhibitors can be utilized. Such inhibitors are applied to the surface which they then penetrate reaching the reinforcement and creating a protective, against moisture /chloride ions, layer. This method becomes effective for a construction like The Lion Chambers where the goal is to preserve as much as possible. Another method could be employing corrosion-inhibiting coating - a on the surface seal against weathering.

The beginning of the journey: Jack has just entered the space through main entrance 1. They were welcomed by a staff member at the first table to the right (one of the welcoming desks/information points). The space is flexible, hence there are a number of welcoming desks that double as working tables. This area also has movable tool boards, spare movable chairs, product displays, trolleys, working tables and storage.

APPROACH TO INSULATION AND HEATING



Display, Material Bank and storage Furniture and fixtures Ramp



Jack stops by one of the displays, browsing through the items. The display is the opened up flue pipe with SAMPLE 2 tiles used as shelves and SAM-PLE 1 tiles utilized for the flooring

tiles made from debris ADAPTIVE MATERIAL REUSE

One of the goals of the project is to amplify the flow in the space to create an experience, a multi-layered journey that engages the users. Therefore, a void and a ramp connecting the basement and ground floors, were proposed. That, however, signifies demolition of a number of existing structures and with that, waste. To combat that issue the debris can be utilized to, for example, create floor tiles in the Center. Such tiles are made by a Uk based company called Solus. One of the collections titled Spolia takes the **Design with debris** approach.

PROFILE

Name: Jack

A journey of a **visitor** to the Center's cafe

Age: 26

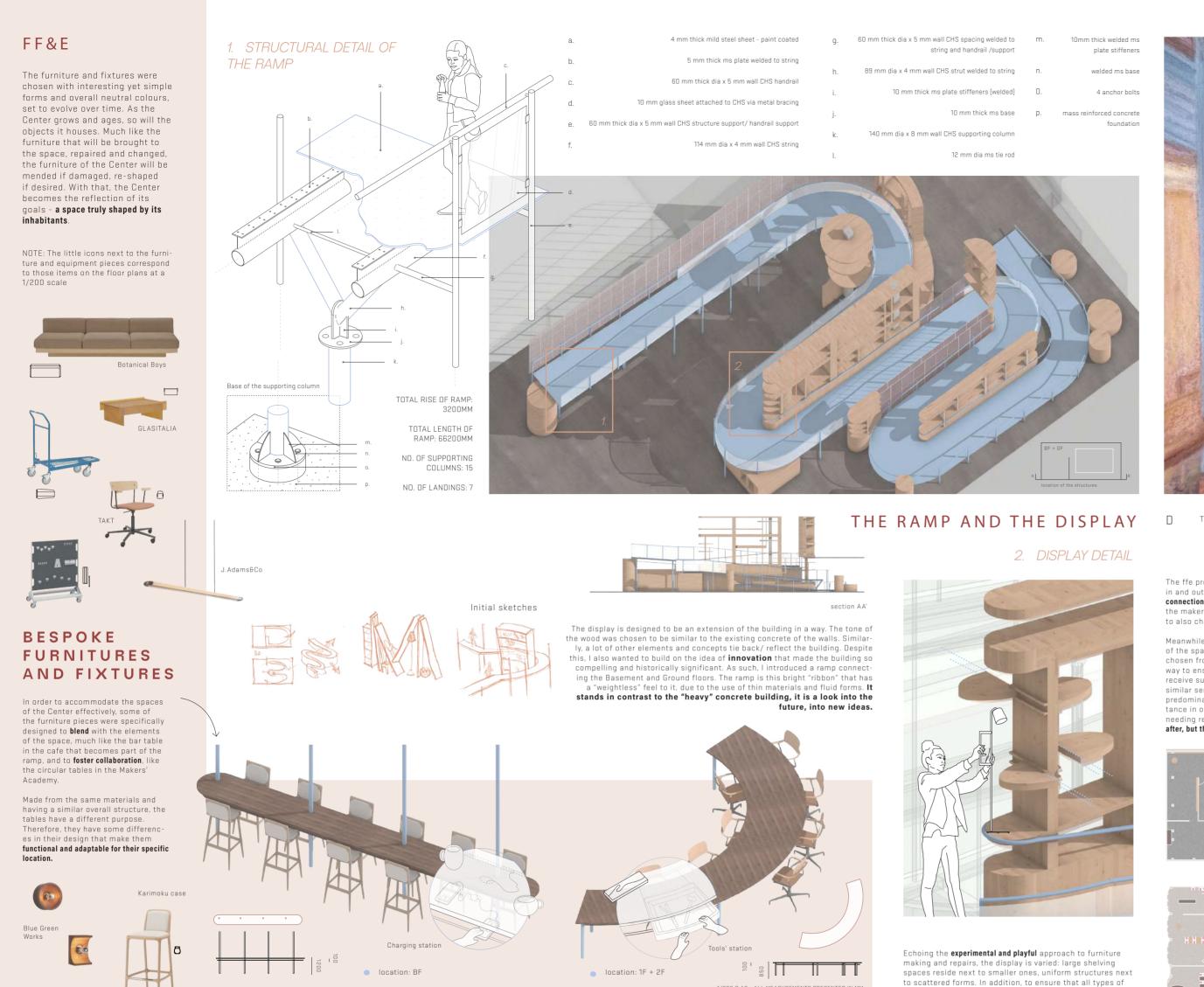
Occupation:nurse



There are numerous existing flue pipes in The Lion Chambers that were used for fireplaces. They are no longer applicable for the modern building standards/needs, but



The journey continues. Jack walks down the ramp, exploring the different products that are on display. They can see the cafe now.



to scattered forms. In addition, to ensure that all types of products are catered for, the display has ${\bf modular\ elements}.$

The end of the journey: Jack has reached their destination. Now they have made a coffee order, taken one of the tables and are observing the space.

The ffe proposed for the Center are items produced both in and outside of UK. Such variety is aimed at establishing connections between the Center and makers worldwide, allowing to also change those products (e.g. repair).

Meanwhile, materials utilized for the more bespoke elements of the space like the ramp, the display and so forth were chosen from specifically UK based suppliers. This is a way to ensure that it is easier and quicker to contact and receive support from the manufacturer(s) in case repairs or similar services are needed. As the makers of the Center are predominantly furniture specialists they might require assistance in other areas outside of their expertise (e.g. the ramp needing repairs). In this way, **not only the furniture is looked** after, but the building as a whole.



Minimal low iron sandblast to smooth

METAL STORE - Mild steel tube coated in metal paint (an example of a tie rod tube in the ramp) SOLUS - Terrazzo,

sheet coated in metal paint RUST-OLEUM - CombiColour high performance metal paint in Pale roundel blue, BS381c 172

> Ambar Transparent glass Engineered European Oak, BPF21

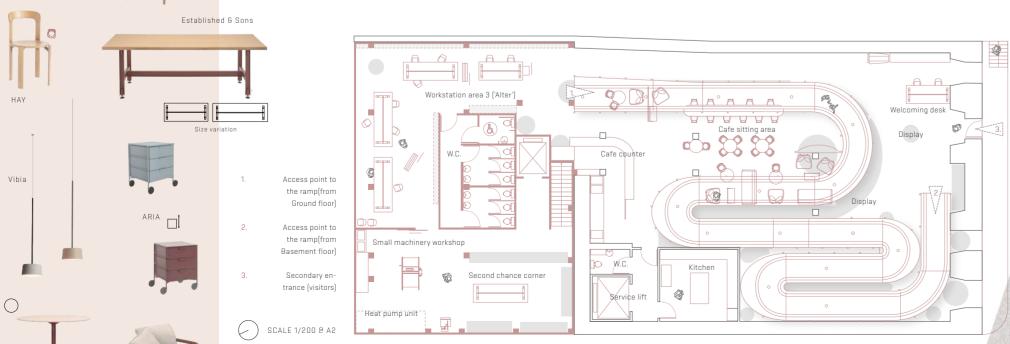
> MAPEI - Grout in AVIO, 167 (Paired with Solus tiles 7SP0010

TIMBERSOURCE - European Oak, Kiln Dried

MAPEI - Grout in TERRA DI SIENA, 145 (Paired with Solus tiles 7SP0006 (3.))



MATERIALITY



Display, Material Bank and storage Furniture and fixtures Ramp

BASEMENT FLOOR