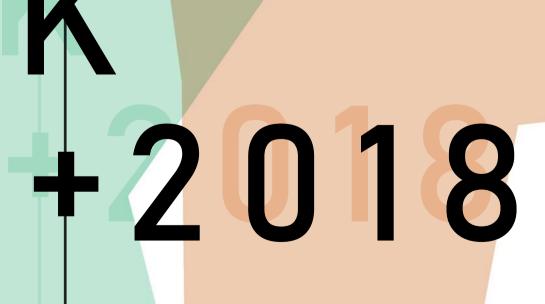
With special thanks to_

David Henshall Aled Singleton George Lovesmith & all Llyfrgell Maindee Library+ volunteers.

booklet graphics Eve Bembo.



R A STUDIO

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Vertical Studio 2018 - adHACK+



adapting infrastructures together

Objective

to work directly with local user groups to hack/appraise/ customise/re-purpose a dysfunctional library shelving system.

Context

llyfrgell Maindee library+ : a volunteer-led library & all-round community hub located in Maindee, Newport. closed in the summer of 2015 by the city council, the library was re-opened later in the same year and is now run entirely by volunteers from local charity Maindee Unlimited.

Please be patient throughout the next few months. We will leave regular updates on the library windows for you. WWW MAINDEE.ORG / WWW.FACEBOOK.COM/MAINDEELIBRARY

Resources

Regeneration work to refresh the fabric of the library began in 2017 and has culminated in the conception of this WSoA vertical studio project. architects **George Lovesmith (of Integrated Workshop)** and Sarah Hollingworth (of Architecture 00) were commissioned to redesign the library's interior - the task of 6 WSoA students (guided by design engineer David Henshall) is to attempt the same on the library's shelving system.

MAINDEE

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www.maindee.org/blog

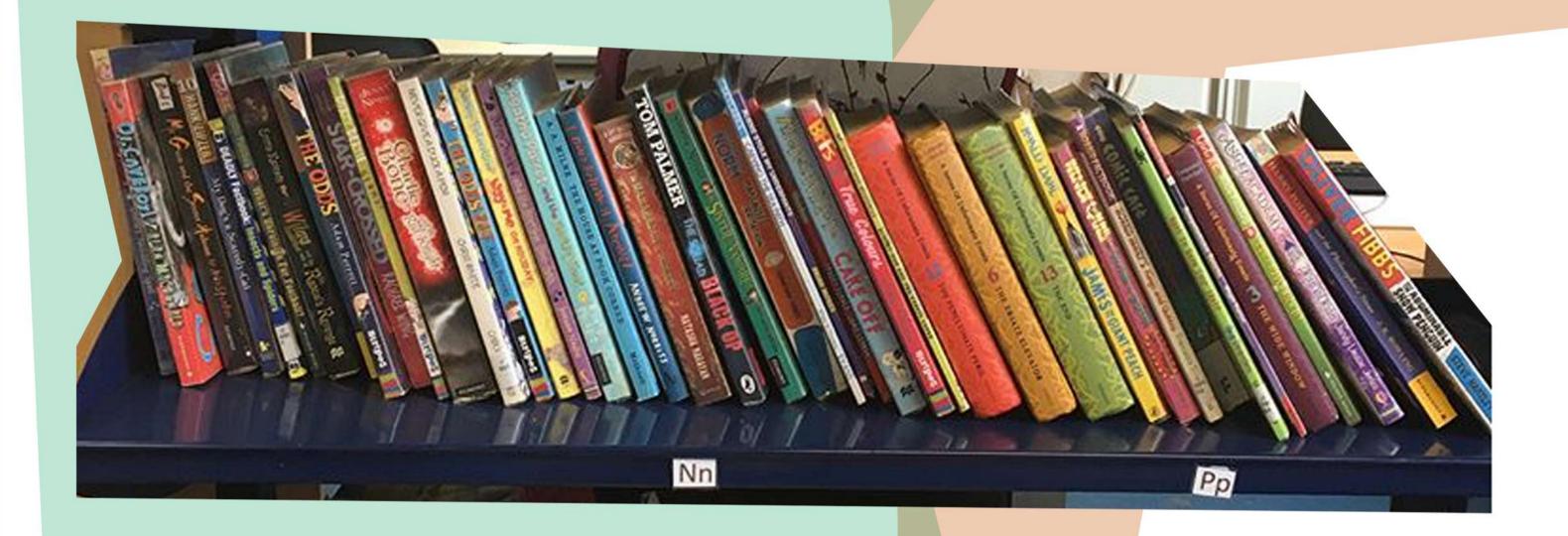
Instagram @maindeelibrary





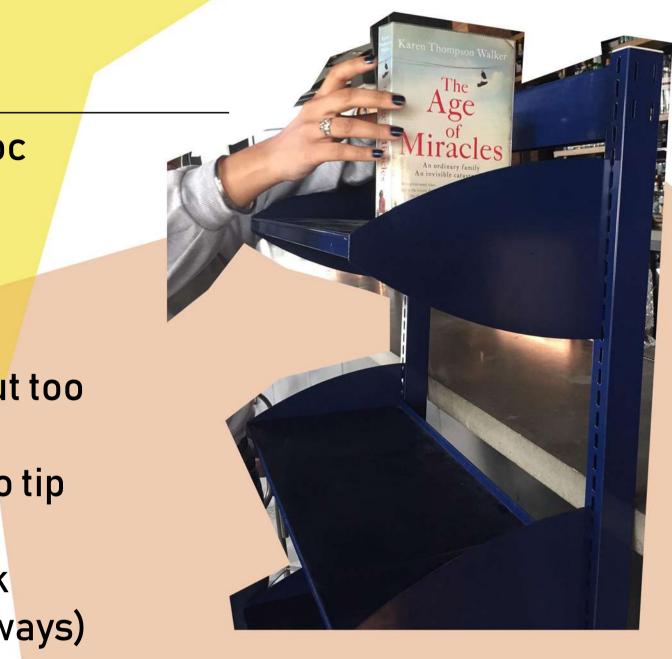
Aches & Pains

the shelves also unfortunately wreak havoc upon their literary residents. some of the complaints noted during the community co-authorship process: INFLEXIBILITY & UNSUITABILITY (shelves are too deep for smaller books but too shallow for larger books) (book ends are too short, allowing books to tip over the edges of the shelves) (fixed shelf width means that smaller book collections are allowed to slide & fall sideways) LACK OF INTEGRATED STORAGE (volunteers bereft of safe spaces to store belongings throughout the day, occasionally resulting in theft) (messier equipment, ie childrens' art supplies, kept out in the open and used a little too freely) **HARSH TACTILITY** (dark-hued metal is visually & physically unforgiving & is very heavy)



Existing

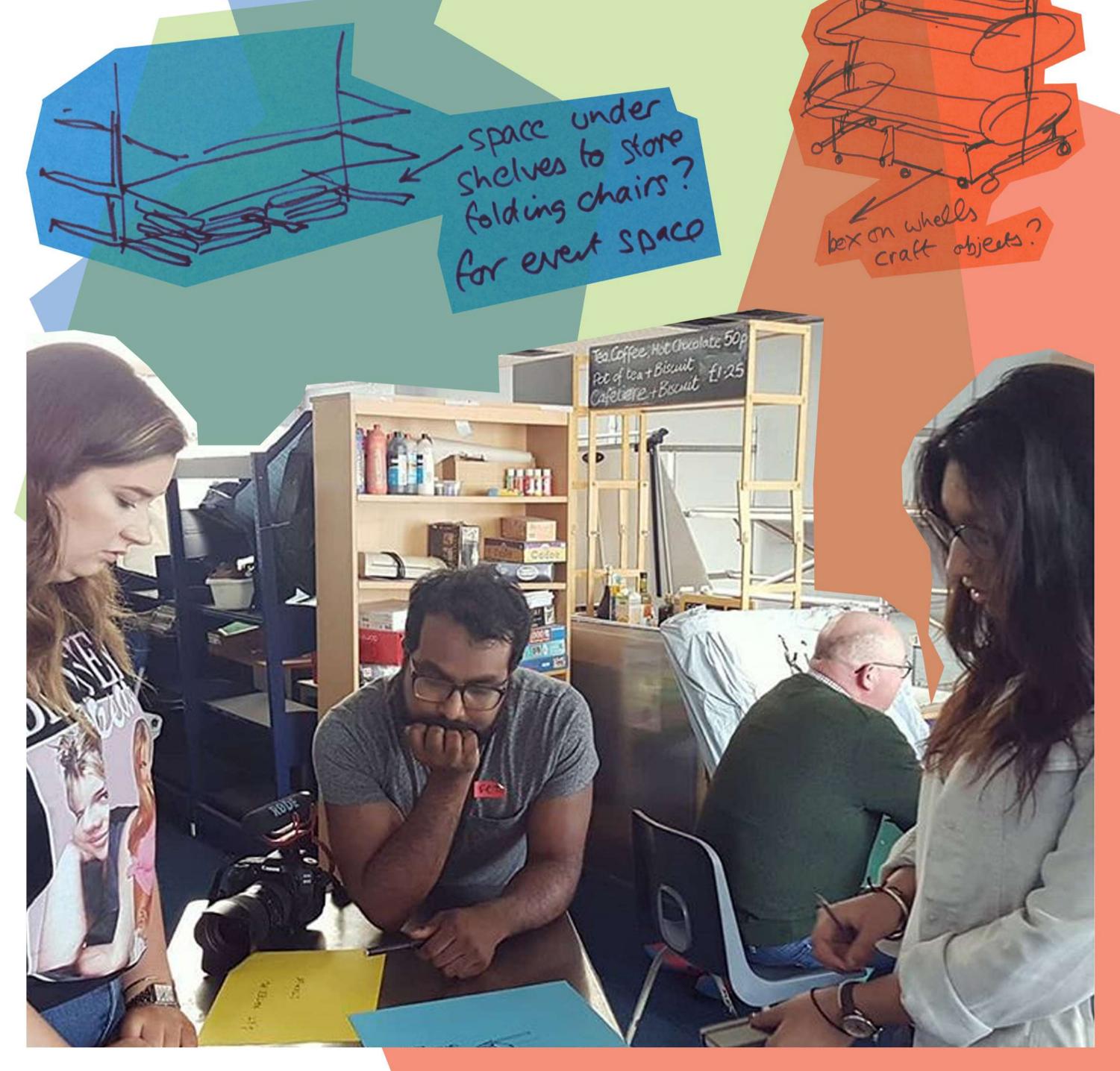
the community library currently employs the use of several 20+ years-old metal shelving units. standing at around 1.6m tall, the units feature flexible individual shelf heights, mobility wheels & space-age elliptical book ends.



First responses_

two local community co-authorship sessions were held at Maindee Library over the course of the project's first week. included amongst attendees were several of the library's volunteers/ architect George Lovesmith/the 6 WSoA students/ filmmaker Fez Miah/'Finding Maindee' project manager Aled Singleton/ & others. over the course of the meetings,

needs & hopes for the shelving overhaul were discussed & sketched by students and community members alike.



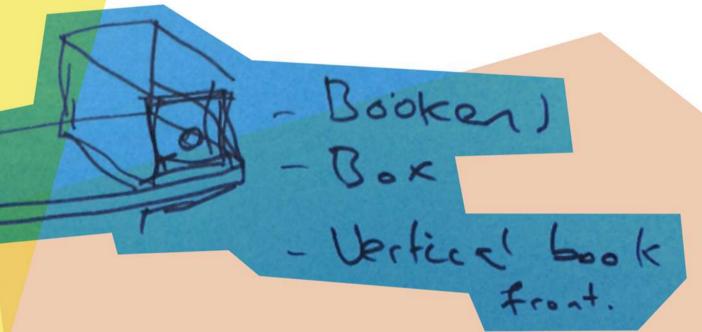
Cutting & Sticking as a result of these discussions ,ample content was generated & a plethora of ideas were conceived - primarily those that looked to solve issues documented in the 'Aches & Pains' section of this booklet. however some of these concepts (especially those concerning shelf plans incorporating laptop bays/ standing work stations/ childrens book collections) were subsequently discarded due to possible irrelevance to the studio project within the short time frame.

Conclu<mark>sions</mark>

shift

it was resolved that the shelving changes should address primarily the need for storage for volunteer belongings & library materials/ shelf end inhabitation/ front-facing book displays/ maintaining easy shelf height adjustment/ possibility for public display spaces.





HACK-ing as per the studio's focus on hacking culture, the

decision was made to maintain the basic framework of the shelf structure & modifying it to fit the desires of the library community as previously discussed. the WSoA 6 took complete measurements of the existing system (erectable as one unit [pictured] or as a double-width shelf, which was to be taken into account during the design process).

>>>

ad-ing_

A REAL PROPERTY.

following decisions made on additional functions to be fulfilled by any proposed modifications, 6mm cardboard was used as a prototyping material to begin modelling & ad-hoc-ing ideas for improvements.

Ups & Downs_

the idea developed to create a vertically sliding unit, addressing simultaneously the need for shelf end inhabitation, display space & height adjustability, attaching semi-circular ends to then framework with a vertical trench allows the form to travel freely up and down the structure - work was then started on a joinery format that would allow for two ends to be connected to each other by shelving elements.

the shelves could be assembled & disassembled comparably quickly.

shelf divider & beam chamfered so shelf can be inserted without removing top framework

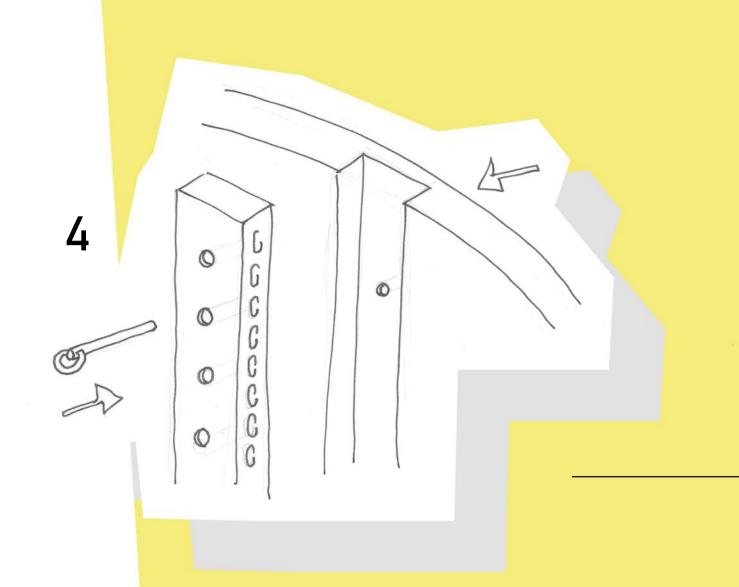
slot shelf element into framework

3

pu<mark>sh</mark> end element onto shelf edges_

_Assembly mai<mark>ntaining the modu</mark>lar approach,

attach opposite _shelf end in same way



push ly<mark>nch pins</mark> underneath shelf into exis<mark>ting</mark> perforat<mark>ions to</mark> prevent vertical movement_

load with books*

6

beam running beneath the shelf*



Y

push lynch pins through holes punched into framework & _ends to secure

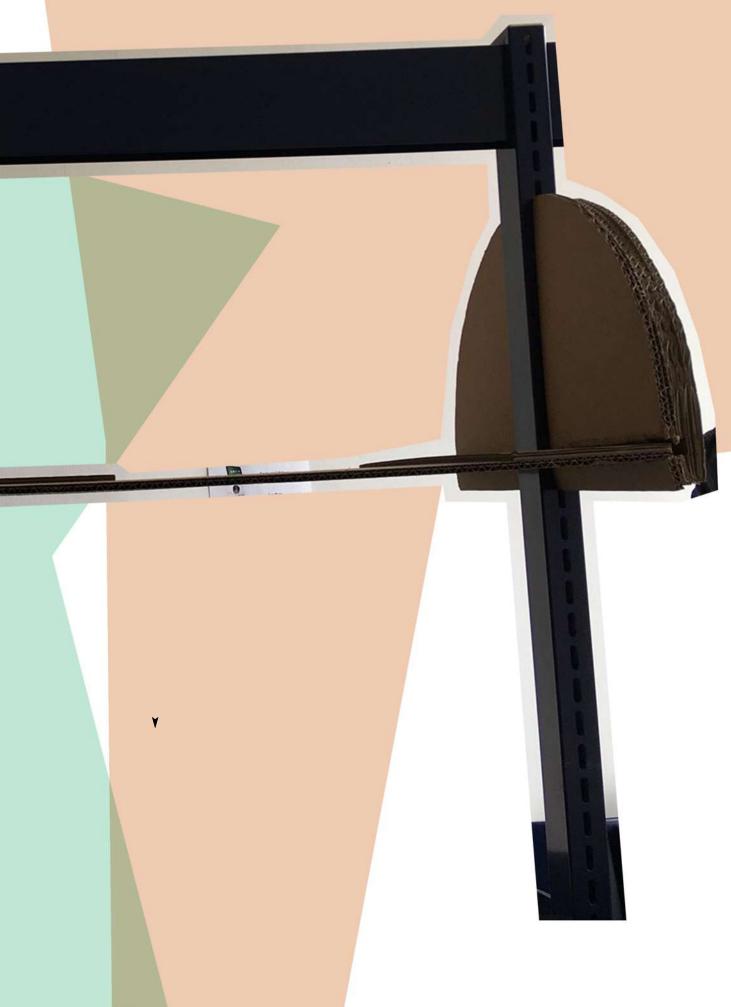
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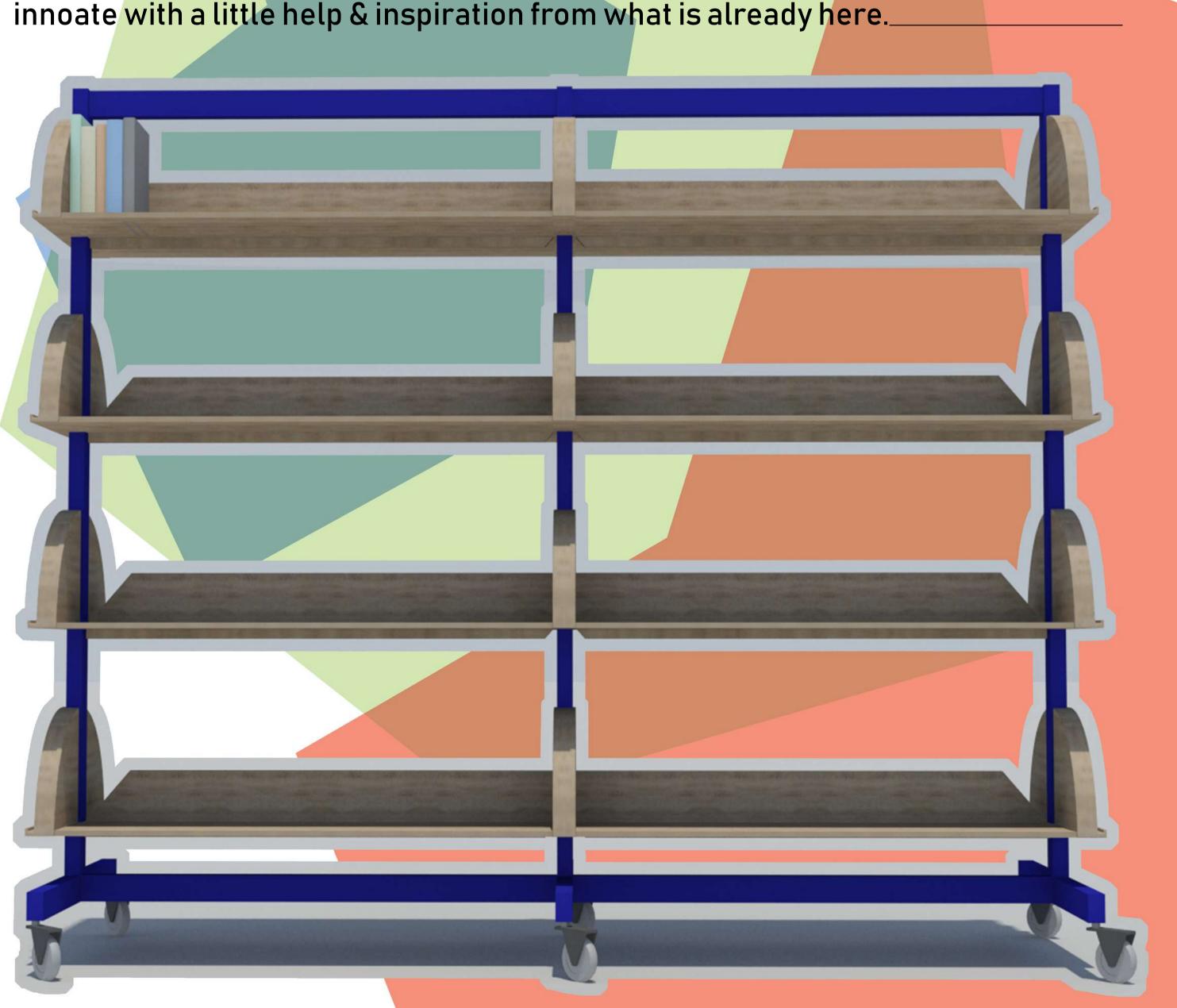
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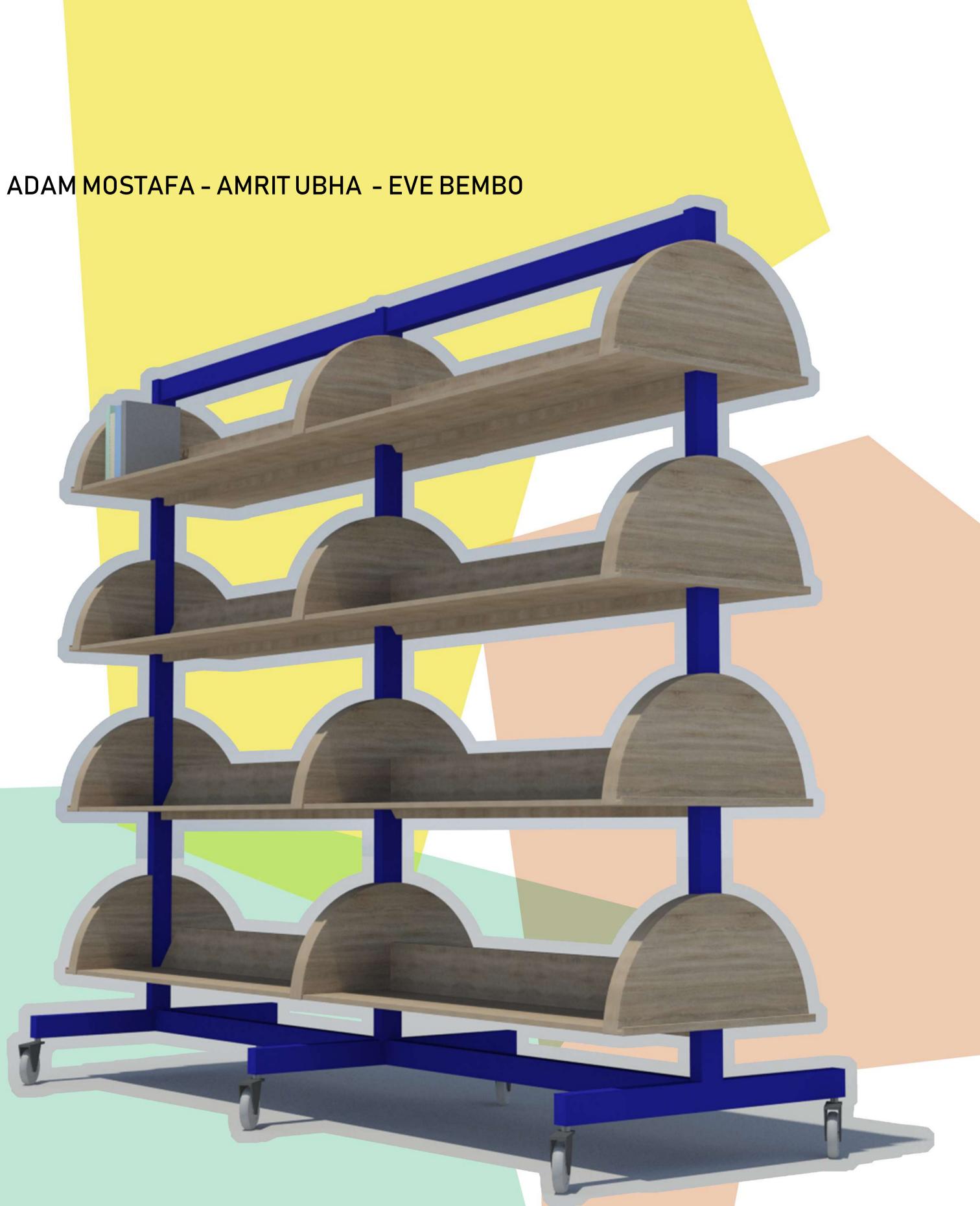


Culmination

the resulting pa<mark>ys reference to the existing in many ways, evident in th</mark>ese imagined products; though the WSoA 6 hope that their efforts to meet the hopes of Llyfrgell Maindee Library+ have been worthwhile. as is the aim of hacking culture, the point of such projects is not to create something new entirely; but to innoate with a little help & inspiration from what is already here.







HANNAH PRICE - LUCY MCNAMARA - ROBYN WESTWELL.