

Building a new
MAINDEE
Together

TEST, COOK + SERVE

MAINDEE LIBRARY - MOBILE CAFE PROJECT



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October

November

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IDEA RESEARCH

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MEET THE TEAM



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Verity Moulder



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CONTEXT

Maindee Community

- Maindee is a large inner-city commercial and residential area in the city of Newport, South Wales.

- The area has a population of over 7,500 people and is one of the most diverse places in Wales, with over 30 different languages being used today.

(SOURCE: www.youtube.com/watch?v=CY6CvltghbY)

- There is an annual Maindee Festival and Parade, held each Summer, is a popular community arts event for all residents in Newport. Other local events include... which could provide business opportunities for the charities café.

The Client; Maindee Unlimited Charity + Library

- In 2014 Maindee Unlimited was formed as a charity, with the aim of transforming the areas community and economy for the better, building its reputation as an attractive, safe and culturally vibrant place to live.

(SOURCE: www.addocreative.com/addo/wp-content/uploads/2017/02/Maindee_Library_BRIEF_Llyfrgell_Maendy_BR%C3%8EFF.pdf)

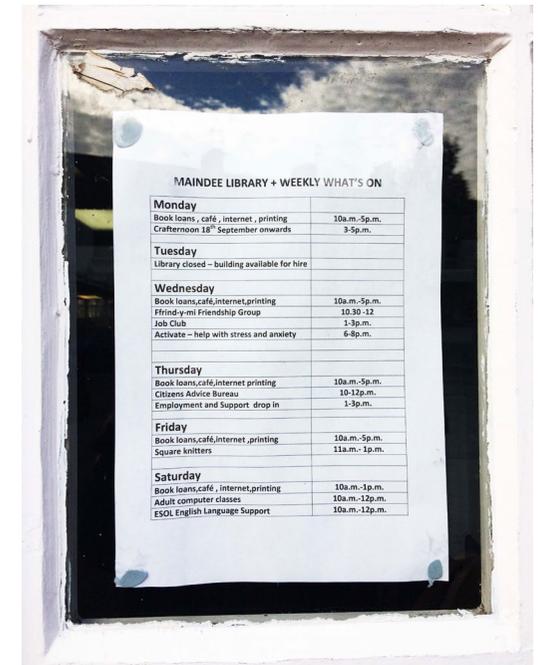
- In 2015 the council cut funding for the local library and shut its doors, until Maindee Unlimited intervened offering to run the building and refresh the existing spaces. Volunteers now run it as a library and community space, which serves as the heart of the Finding Maindee project.

(SOURCE: www.addocreative.com/addo/wp-content/uploads/2017/02/Maindee_Library_BRIEF_Llyfrgell_Maendy_BR%C3%8EFF.pdf)

- The library is the ground floor of 79 Chepstow Road. From the outside it shares an Edwardian façade with the Police Station next door and Gwent Police still occupy the first floor above the library. Approximately half of the library's floor space is within the Edwardian building with the remainder an extension built in the 1970s. There is a small space at the front of the building, which could offer space for the mobile café.

(SOURCE: www.addocreative.com/addo/wp-content/uploads/2017/02/Maindee_Library_BRIEF_Llyfrgell_Maendy_BR%C3%8EFF.pdf)

- The library is now run by three paid part time staff and volunteers.



MAINDEE LIBRARY + WEEKLY WHAT'S ON	
Monday	
Book loans, café, internet, printing	10a.m - 5p.m.
Craftroom 18 ⁺ September onwards	3-5p.m.
Tuesday	
Library closed - building available for hire	
Wednesday	
Book loans, café, internet, printing	10a.m - 5p.m.
Finding-me Friendship Group	10.30 - 12
Job Club	1-3p.m.
Activate - help with stress and anxiety	6-8p.m.
Thursday	
Book loans, café, internet, printing	10a.m - 5p.m.
Citizens Advice Bureau	10-12p.m.
Employment and Support drop in	1-3p.m.
Friday	
Book loans, café, internet, printing	10a.m - 5p.m.
Square knitters	11a.m - 1p.m.
Saturday	
Book loans, café, internet, printing	10a.m - 1p.m.
Adult computer classes	10a.m - 12p.m.
ESOL English Language Support	10a.m - 12p.m.

Weekly timetable of events at the library



LLYFRGELL MAINDEE LIBRARY	
OPENING HOURS	
10am - 5pm	Monday
10am - 5pm	Wednesday
10am - 5pm	Thursday
10am - 5pm	Friday
10am - 1pm	Saturday
library@maindee.org	
01633 309443	

Opening hours of the library

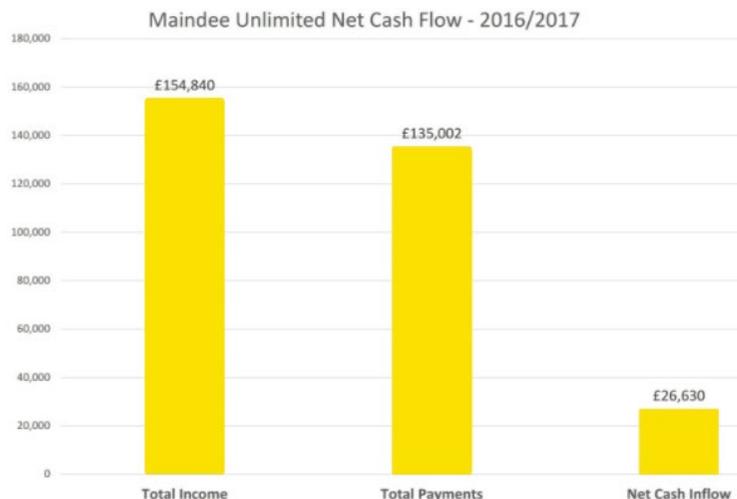
The building is used extensively, and functions beyond a library, offering printing, internet and a café.

The library hosts many activities weekly, as shown in the timetable to the left.

In addition the library also offers:

- ESA Workshops
- 1:1 Counseling sessions
- Road to wellbeing group
 - Movie Nights

In short, the space is typically well populated, guaranteeing a market place for a mobile café. A store currently offers teas and snacks, which Maindee Unlimited are hoping to take further. With the total hours open a week totalling 31 hours, the library could make a good revenue from selling refreshments.



Financial Background

- Maindee Unlimited have gone from strength to strength in nearly two years of operation, with a net cash inflow of £26,630 during the 2016/2017 financial year.

See graph

(SOURCE: www.maindee.org/blog/another-year-in-the-life-of-maindee-unlimited)

- Maindee Unlimited's blog states "The financial side of the organisation is clearly getting more complicated" but they are looking to widen their income with proposals such as the portable café.

(SOURCE: www.maindee.org/blog/another-year-in-the-life-of-maindee-unlimited)



WIDER DEVELOPMENT

Maindee Tryangle

- The Arts council of wales have allocated Maindee Unlimited £50,000 to develop the “Tryangle” opposite the library. Karsten Huneck and Bernd Truempler - known as KHBT architects have worked up designs, which can be seen below. It is worth considering how the moveable café could be wheeled in and incorporated into the design during the summer months.

(SOURCE: www.maindee.org/blog/introducing-khbt-to-maindee-triangle)

Library ‘Refresh’

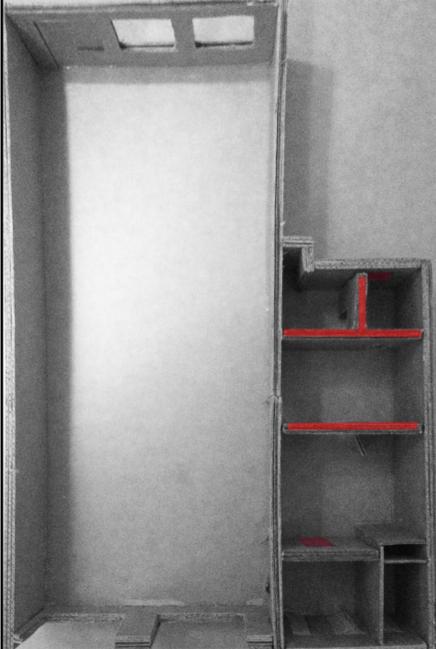
- £200,000 is to be spent refreshing the library building, following a further grant from ACW and the Landfill Tax Credits Scheme. Maindee Unlimited is working with architects George Lovesmith and Sarah Hollingworth to develop and implement the project. The works are to be broken down into several incremental phases *(SOURCE: www.maindee.org/blog/maindee-unlimited-developing-as-a-charity)*

- 1) The first stage will see the adaptation of the smaller spaces including new toilets, meeting room and kitchen, the latter being where the café will be stored [see page 7]
- 2) The second stage will included changes to the windows and heating
- 3) Third and following stages will change the main space and then look to the outdoor areas



LIBRARY MODEL

Existing Library Layout



Red: Walls to be removed as part of the Architect's design for the refresh of the library

Library Refresh- New Layout



Yellow: New partitions proposed



Yellow: Meeting room
Blue: Lobby area
Green: Disabled toilet
Purple: Store/ Potential future toilet
Red: Kitchen base area



Orange; Scale of the mobile cafe when stored in kitchen base area

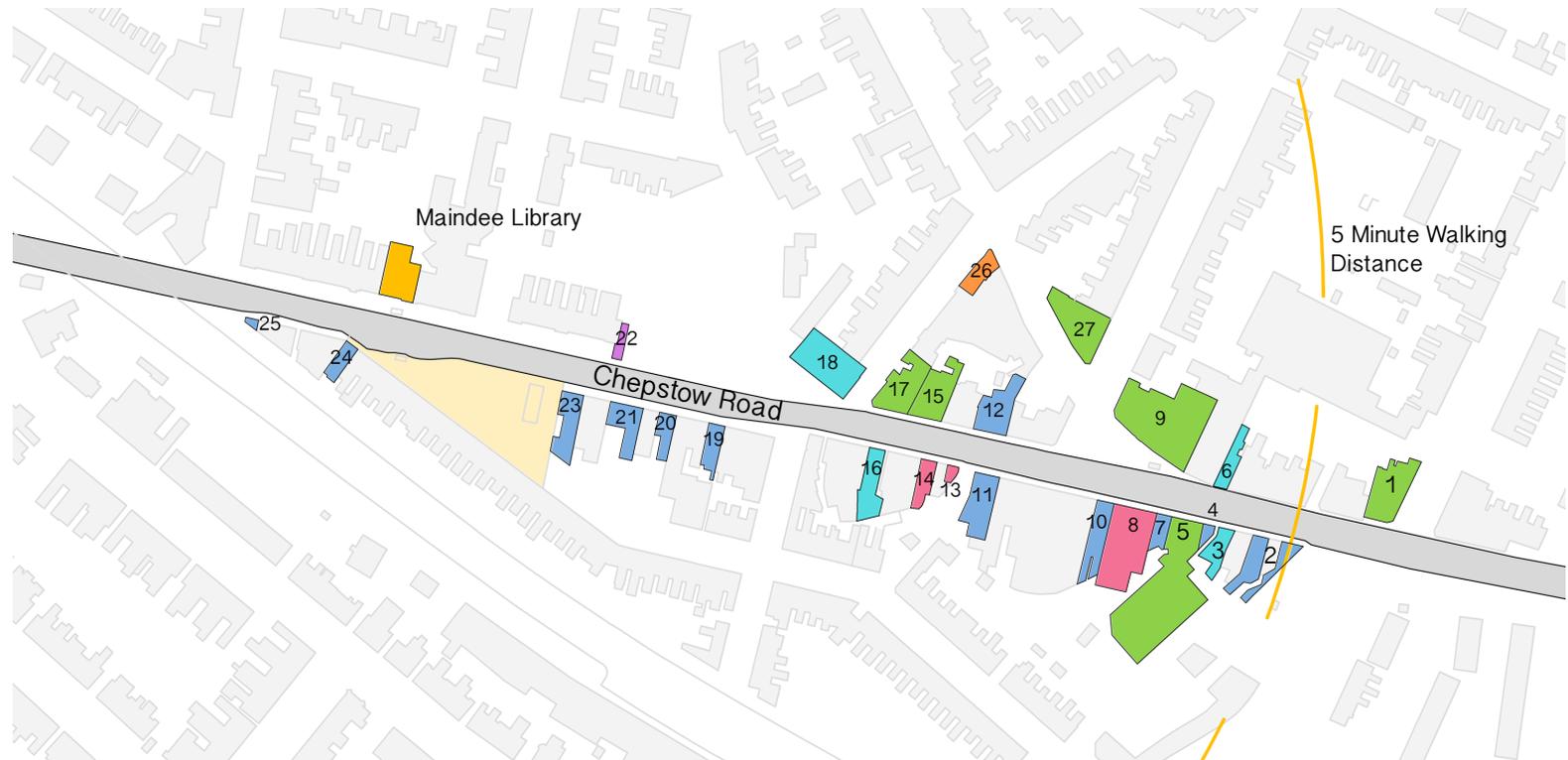


MARKET RESEARCH

Existing Food Establishments in Maindee



Existing Food Establishments along Chepstow Road



- | | | |
|---|--|---|
| ● 1 - The George - Pub | ● 9 - Hot Rocks - Pub, Club & Steak house | ● 18 - Villa Dino - Restaurant * |
| ● 2 - Crystal Palaces - Takeaway | ● 10 - Sen BBQ - Takeaway | ● 19 - Sen Bakery Patisserie - Takeaway |
| ● 3 - Kor-I-Noor - Restaurant * | ● 11 - Noble House - Takeaway | ● 20 - Peri Licious - Restaurant |
| ● 4 - Spice Hut - Takeaway | ● 12 - Valentines - Takeaway * | ● 21 - Papa Johns - Takeaway |
| ● 5 - The Godfrey Morgan Weatherspoons | ● 13 - Farm House Bakery - Convenience * | ● 22 - Deli Delights - Takeaway Cafe * |
| ● 6 - Rachel's Curry Kitchen and Racheals Slimmer Meals * | ● 14 - Jim Oliver Butchers - Convenience * | ● 23 - Stackers - Takeway |
| ● 7 - The Chippy - Takeaway | ● 15 - The Scrum Half - Pub | ● 24 - Maindee Fish Bar |
| ● 8 - ABC Supermarket * | ● 16 - Tamarind - Indian Restaurant | ● 25 - Wok Mex * |
| | ● 17 - Maindee Hotel | ● 26 - Maindee Handyman Store |
| | | ● 27 - Royal Albert Pub |



THE BRIEF

1) Maindee Library

Maindee Library is based in a urban location on the edge of Newport, South Wales. The library is currently owned by the charity Maindee Unlimited, who operate under the Arts Council, Wales. The charity have occupied the building for 2 years, using it as a library come community centre after asset transfer from the local authority.

The library is currently undergoing a complete 'refresh', due to be finished in July 2018. This is in collaboration with Architects George and Sarah, who are involved in the redesign of the meeting room, toilet facilities, kitchen facilities and main library/community space.

2) The Client

The client for the project is Maindee Unlimited, a charity who own the Library and are funding this project as part of their allowance for creative projects.

3) Stakeholders

The stakeholders include; Maindee Unlimited, the volunteers and workers of the library, who will use the cafe both inside and outside of the library for every-day use and events, those who rent out the space and the general public who use the library.

David Henshall will be assisting with product design expertise and advice throughout the project and will be attending meetings to help guide design development.



Ramp the mobile cafe will have to manoeuvre around



Front doors the mobile cafe will have to fit through





Current kitchen facilities



Current kitchen facilities

The unit has to be adaptable so it can be used for a variety of different events, at different scales- facilitating a small group of people, to up to 60 people during a function such as a wedding reception.

4) Urban Study

The urban study will investigate the surrounding cafes in the nearby vicinity to discover what the existing facilities do not offer. A study into local food resources will also be carried out to determine the type of foods which could be prepared at different seasons in the cafe.

5) Constraints

5.1 Budget

The budget for the project is £1,800 to cover all materials and kitchen appliances for the mobile cafe. Provisional sums show that this should be possible, dependent on the coffee appliances chosen.

5.2 Timeframe

The project will span 6 weeks within which time the aim is for the students to design and make the mobile cafe. Locally sourcing materials to reduce lead times and pulling on resources ready to hand in the university workshops will help to achieve this.

5.3 Space

The unit is likely to be often stored in the 'Kitchen base area'. This area allows for a unit of 600 x 1400mm.



6) The Vision Statement

The mobile cafe must be fun, friendly and functional, refreshing Maindee's community.

7) The Product

7.1 Client needs

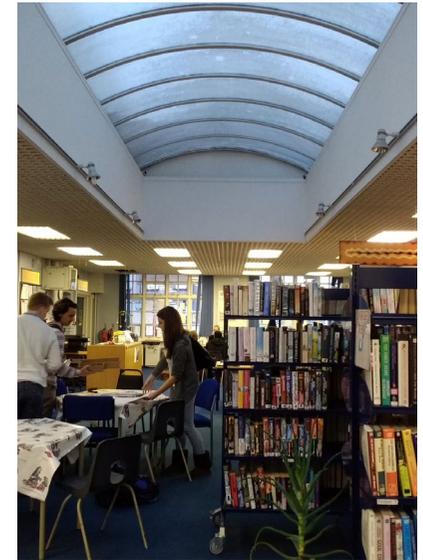
The brief set by the Maindee Unlimited is to design and make a mobile kitchen unit which can be used throughout the library for making and serving hot and cold drinks and light snacks.

The mobile kitchen unit will also need to be robust as it will be used outside the library; directly outside, 'Maindee Triangle' and occasionally at events throughout Maindee.

The structure also needs to be lightweight as it will need to be easily steerable via one person and easily fit through the library front and sub doors. The wheels for moving the unit need to be robust enough to withstand curbs and uneven surfaces.

The unit must offer work surfaces for preparing food and drink, a space for a coffee machine if required and a display area to advertise produce on sale. The unit should contain storage spaces for equipment and a built in refuse bin.

Aesthetically, the unit must tie into the vision of the proposed refresh of the library- taking into account the proposed finishes and colour palette used by George.





7.2 Services

The finished unit is to have 2 x 13 Amp sockets, a space for retaining the temperature of pre-heated and pre-cooled food and drink and a form of portable water supply.

It is assumed that a Outdoor RCD socket outside of the library entrance will be included in George's drawings in order to allow the unit to work directly outside the library, addressing the street and nearby bus stop.

7.3 Part M requirements

A lower work surface will be required as part of the cafe in accordance with Part M of building regulations, to allow access to all workers and users.



8) Performance standards

8.1 Sustainability

Materials used will be locally sourced and reusable where possible.

8.2 Health and safety

A electrician will be required for the wiring of the 2 x 13 Amp sockets as part of the proposal. Care will be given by the student volunteers in constructing the rest of the mobile cafe, abiding to the safety regulations of the university workshops.



9) Engagement

The mobile cafe is to be built by students with the main proposed consultation structure being meetings based at the library with Aled Singleton, Maindee Unlimited representative and volunteers/workers. Occasionally George who is working on the library refresh scheme will also be present. An evening to make soup, carve pumpkins and gather ideas of the requirements of the end users are also arranged along with a day event to discuss the proposed plans for Maindee triangle space, opposite the library. The date for the end presentation of the mobile cafe has been set as the 16th November 2017.

10) Expected outcomes

- The Product; The Mobile cafe
- 1:50 Scaled model of the existing and proposed layout of the library with a scaled model of the proposed kitchen unit- to show movability around the space
- Posters- Designed to show upcoming events offering seasonal food/drink
- Menu of the different drinks/snacks available
- Illustrated report- With documented progress, research, drawings, photographs and costings if it were to be made of different materials/ taken further



11) Product Legacy

The aspiration is for the mobile cafe to be able to be used for future events such as the christmas festival, functions such as weddings and generally around the library. It is also likely to be used during the main refresh of the library starting in January 2018 and running through the summer, when the existing kitchen is redeveloped. In these ways- we hope the mobile cafe will continue to be used after the students involvement with the project has ended, to help aid the library's everyday function and as a income source to help sustain the library's management for years to come.



PROJECT TIMETABLE

October

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
9	10	11	12	13	14	15
Project start date 16:00-Initial Meeting with Volunteers to discuss brief	Writing up meeting minutes & Brief development research. Request existing/proposed plans.	Bath Field trip	Collaborate initial brief, ideas and images of similar projects Tutorial with staff to discuss approach	Email project brief to Maindee Library team for comment	Existing/Proposed scaled model of the Library. Any necessary site analysis.	Research into the alternative ways of moving the café
16	17	18	19	20	21	22
15:00- Meeting to discuss brief drawn up and initial ideas	Writing up meeting minutes & altering the brief post second meeting	Lectures	Design and concept modelling of the kitchen unit	Design development. Discuss materials and where to source them.	1:1 modelling of a part of the design	Preparation for presentation the next day
23	24	25	26	27	28	29
11:00- Interim review on the Brief	1:1 modelling of a part of the design	16:00- Soup making & Pumpkin carving activity to investigate facilities needed	Review what worked/didn't work from testing ideas session. What was observed, what was needed.	Modelling following redesign post testing session	Budapest trip	Budapest trip
30	31					
Budapest trip	Budapest trip					



November

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
		1	2	3	4	5
		Budapest trip	Budapest trip			
6	7	8	9	10	11	12
11:00-Adjust work to redesign. Costings schedule.	10:00-15:30 Meeting on the 'Maindee Tryngle'	Lectures	Make 1:1 model of the rest of the kitchen	1:1 model of kitchen	1:1 model of kitchen	1:1 model of kitchen
13	14	15	16	17	18	19
11:00- Submission of draft report	1:1 model of kitchen and work on presentation	13:00- Work on presentation	Afternoon/Evening: Presentation of final design	Evaluation of design following presentation		
20	21	22	23	24	25	26
11:00-Refinement of design following presentation	Refinement of design following presentation	Lectures	Work on report	Work on report	Work on report	Work on report
27						
Project End Date 11:00-Submission of final report						



IDEA DEVELOPMENT

Mutiple Units



2 units. 2 wheel systems plywood different height surfaces



2 units. 2 wheel systems plywood different height surfaces



2 units. 2 wheel systems plywood different height surfaces

Extendable



Potential Materials



Perspex for the cake display area



Plywood



Stainless steel for the worktop?



Structural timber or steel for the frame



Wheel Systems

Using Existing Wheel Systems



wheelbarrow system



Built on trolley wooden frame permanent roof system

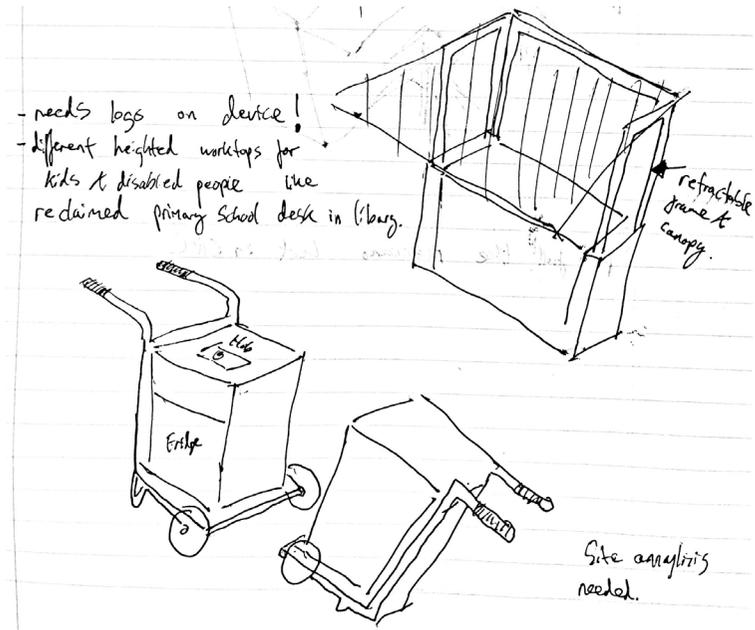
Designed Frame



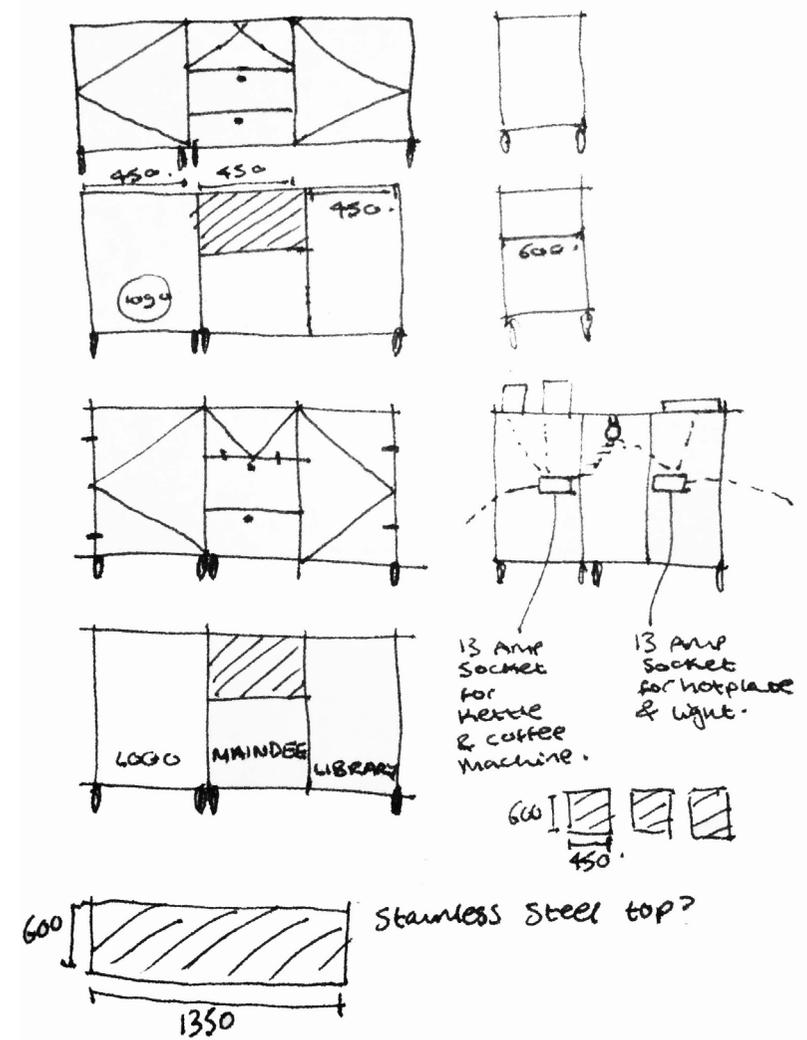
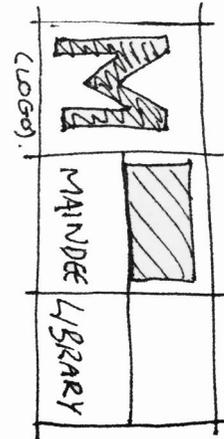
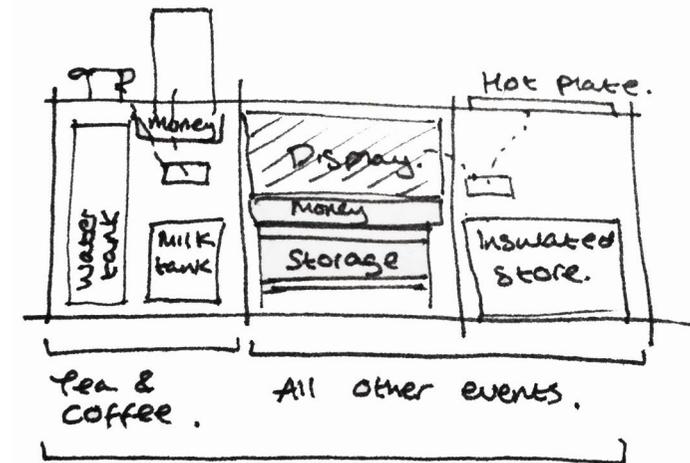
Hanging elements on a metal frame trailer system

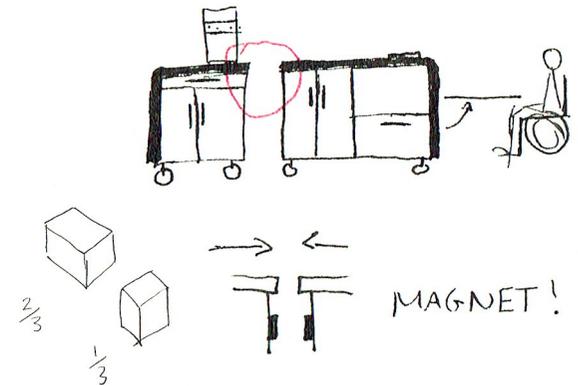
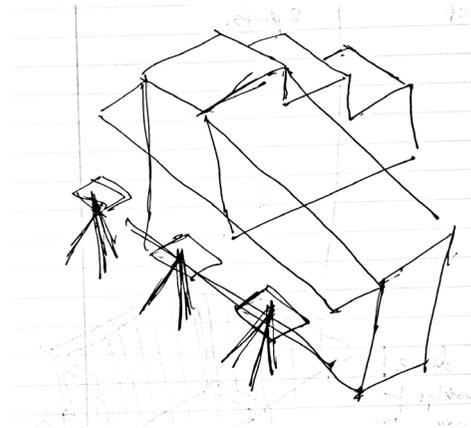
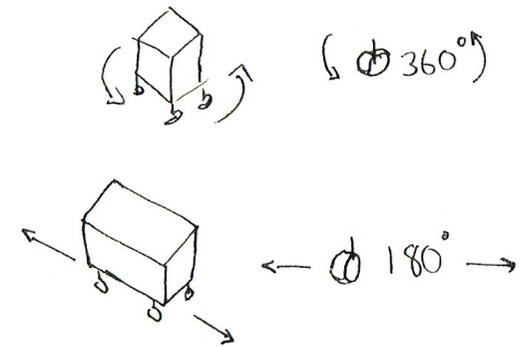
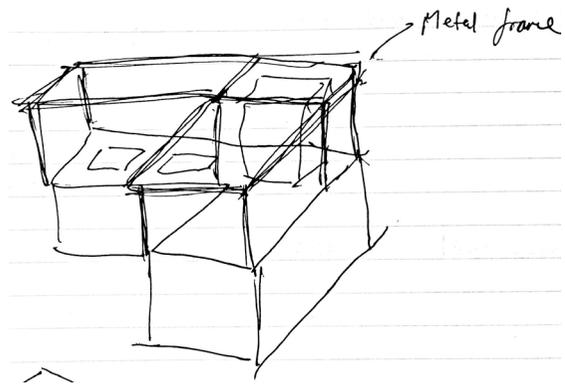
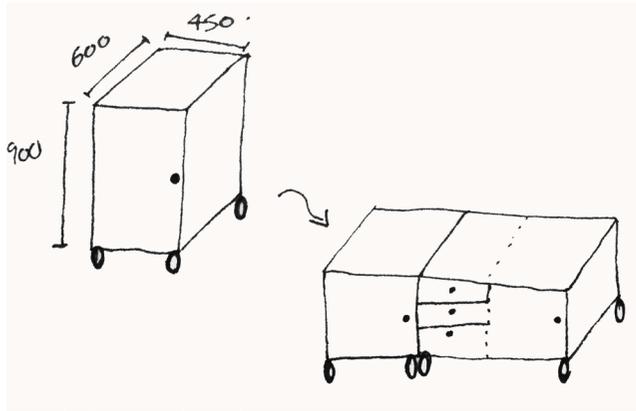


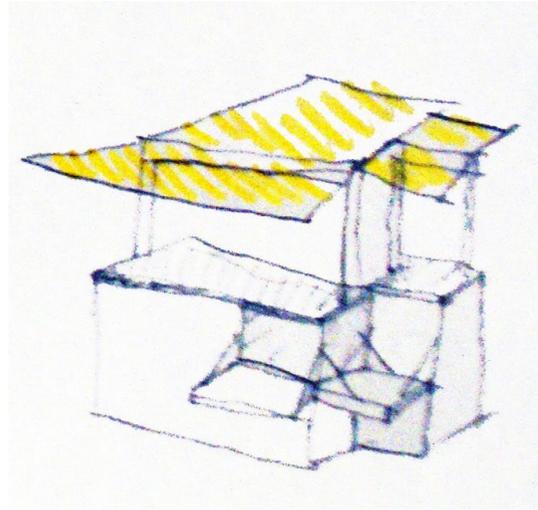
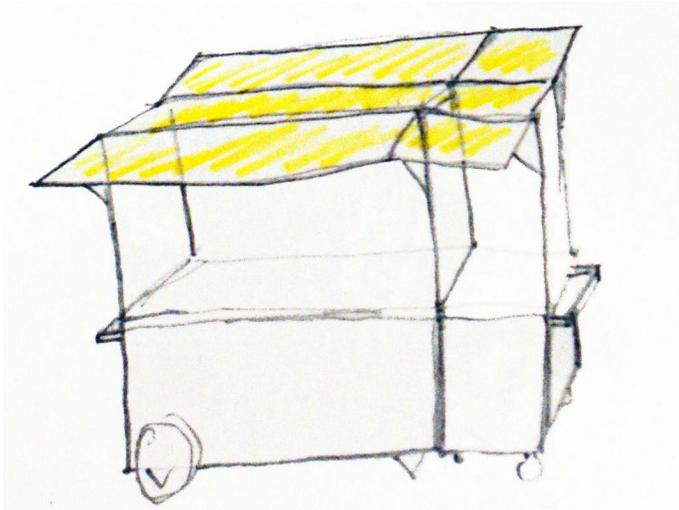
Blackboard advertising wood frame



Sketches







Umbrella roof system perspex display unit
3 wheel system



Fold out roof system metal frame
multiple height counter
3 wheel system



Fold out canvas roof & counter timber frame



Development Models

