PD4044 – Soft Goods Project

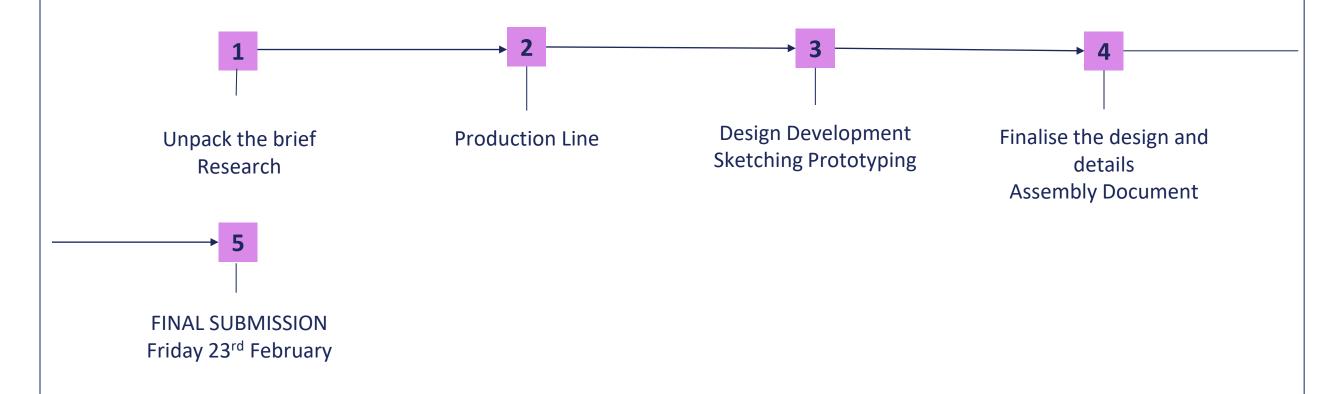
PROCESS BOOK SARA MIKOLAJCZYK 22348204

Table Of Content

Opportunities & Issues pg. 21

01	Timetable & Brief pg. 1	08	Research – My design pgs. 22-24
02	Identifying objects for travel pg. 2	09	Sketch development pgs. 25-27
03	Identifying user experience pgs. 3-6	10	Model pgs. 28-36
04	Market research pgs. 7-8	11	Pattern CAD pgs. 37-39
05	Benchmark & product analysis pgs. 9-10	12	Assembly document pgs.
06	Production Line pgs. 11-20	12	40-43

Project Timetable



Brief

- Throughout this project, I will gain insights into the design process for creating soft goods and utilize this knowledge to craft a design solution for a cross-body bag.
- I will be guided through each step of manufacturing a basic sewn cross-body bag.
- At the near end of the project, I will further develop this design to meet my own needs and create a process book of research, ideation, and an assembly document.

Identifying objects for travel

- Keys A safe attachment to hold the key
- Phone The phone is usually the object we most often dig through the bag to look for. A separate compartment on the outside of the main body could easily improve the issue.
- Earbuds
- Travel documents
- Wallet
- Medication- could get messy when storing multiple types. A compartment with a mesh situation would help store all your types. Tt will allow you to see all your medication without the need of taking it all of them out to pick out what you need.
- Powerbank and Charger
- Additional: Space for extra bag (Reusable grocery bag/tote bag)
- Additional: Water bottle storage/space
- Additional: Umbrella







- All these objects would have to fit in a bag.
- Other than fitting it would have to feel safe and comfortable.
- Durable, waterproof and lightweight material for the bag.
- Multiple compartments.
- Adjustable straps.



Eastpak Cross body bag

- 16cm depth x 15 width
- Fit everything in the bag
- 3 compartments one in the main body and one on the outside.
- Very lightweight material.
- Prefer more compartments.
- Keys felt unsafe in the main body.
- Felt close-packed



Camo Cross body bag

- 8cm depth x 13.5cm width
- 3 compartments like the Eastpak bag
- The extra compartment on the outside made the main body feel less dense.
- The smaller size was noticeable.
- The passport was placed at an angle to be able to fit in the bag.
- Adjustable strap







Supreme Cross body bag

- 14.5cm depth x 22cm width
- 5 compartments allowed it to me a lot more organized.
- Attachment for keys
- All objects fit well into the bag.
- Felt a lot less compacted compared to the other bags
- Velcro closure for one of the front compartments would be useful for objects which would be frequently used.
- Adjustable strap
- 2 elastic straps on the bag.



Market research



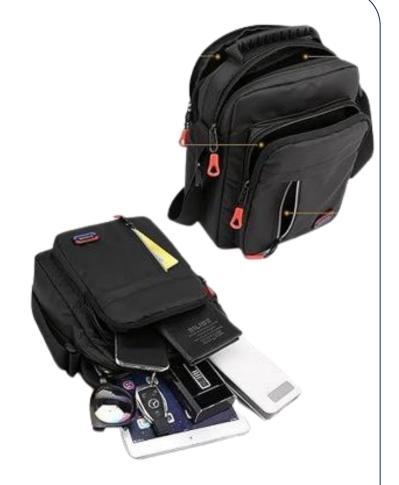


Travelon Anti-Theft Classic Messenger Bag

- Zip top closure; Two water bottle pockets; Adjustable shoulder strap; Includes anti-theft technology
- Water and dirt resistant fabric

A-QMZL Bag

- Night safety reflective zipper warning strip
- High-density waterproof and tear resistant nylon fabric
- Multi-Pocket large capability





PROTECTION







Baggallini Everywhere Bagg

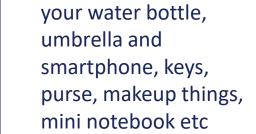
- Interior includes 10 credit card slots, lipstick/pen holder, key fob and detachable coin purse
- Lightweight, waterresistant crinkle nylon











The crossbody handbag

for women is equipped

with many pockets, fits

YYW Crossbody Bag

Market research



Benchwork & product analysis



Features that fit my needs

- Spacious enough for all objects leaves plenty extra space.
- 4 outside zipper pockets.
- 3 extra compartment inside the main body.
- Adjustable straps
- Not overwhelmingly big
- Waterproof

Features that don't meet my needs

- No clip for keys.
- No mesh compartment.

Pros

- Multiple colours and patterns
- Side pockets which would allow bring umbrella and water bottle

Benchwork & product analysis









Tracing material with a white pencil and a stencil. Same method used in the main body and inside of the bag.









Printing for the inside of the bag. Beige used for better visualisation of design. Grey paint used first. It was then dried using a hairdryer for quicker outcome.









Later personal doodle were incorporated in black paint.

Edges were folded in and wonder web was used. We first used an iron to help hold it in place before using the hot press.









The zip was attached to the black material for the main body. Pins used to hold it in place and later sewed on.







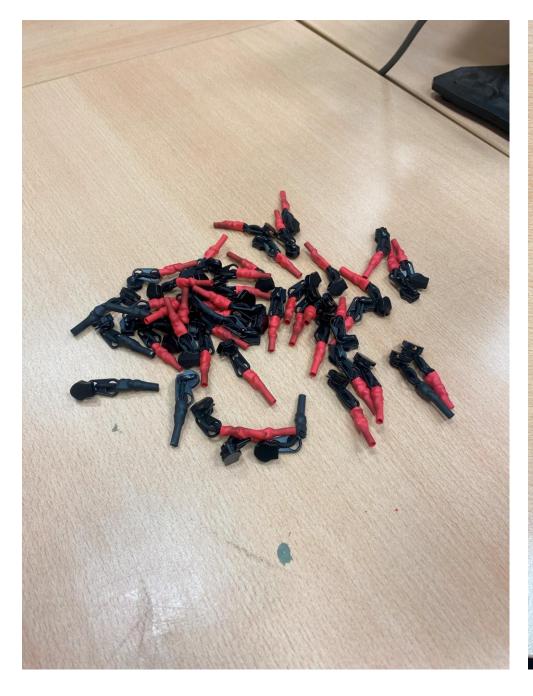
A clip was used to hold two the same sized materials.

The strap was also used a clip to hold on to the sides of the bag

The sides and the bottom was then sewed on. Leaving the top side to later flip it.



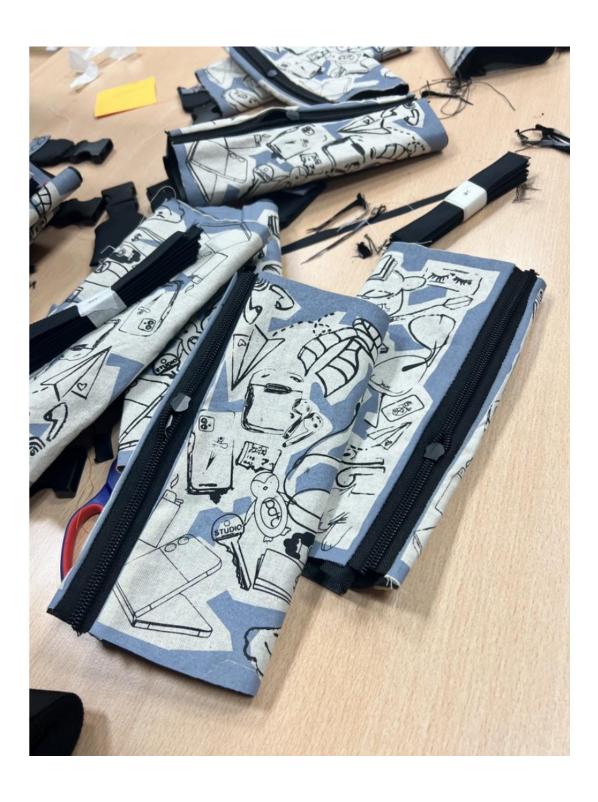












The main body inside out. The sewing done on the inside to make sure it looks cleaner.

Final Bag



Opportunities & issues

- **Introduction to Sewing Machine**: You were introduced to the sewing machine for the first time.
- Building Confidence: With use of the sewing machine, I started gaining confidence.
- Mastering Movement and Direction: I learned how to move the fabric while stitching, which is a crucial skill in sewing. You also learned how to change directions by keeping the needle in the fabric and lifting the presser foot. This technique allows for more complex patterns and designs.
- **Finishing a Stitch**: I were able to successfully finish a stitch. This is a key part of the sewing process as it secures the thread and prevents it from unraveling.
- Learning about Pressure and Quickness: I discovered the importance of applying the right amount of pressure and the speed at which you make prints, especially when you were doing prints for the first time. I found that the quality of the result heavily depends on these factors.
- Precision in Cutting Materials: I improved your precision in cutting materials. Accurate cutting is essential in sewing as it ensures that the pieces of fabric fit together correctly.

- Paint Distribution: Some prints ended up losing their design or accumulating excess paint in certain areas. This could be due to uneven distribution of paint. To improve this, consider using a tool or technique that allows for more precise control over the amount of paint applied.
- Print Loss: Some prints were lost due to incorrect printing. This could be due to a variety of factors such as improper alignment or insufficient pressure. To prevent this, ensure that the print is properly aligned and that the right amount of pressure is applied.
- Tracing Accuracy: After using the cut-out for tracing on the materials for a long time, the card became worn out, which made the tracing less accurate and less enjoyable.
 To maintain accuracy, consider using a more durable material for the cut-out, or replace the cut-out regularly before it becomes too worn.
- Scissor Skills: Since there was no prior experience with using scissors for extended periods, the cut-outs weren't always accurate. This could be improved by practicing cutting skills to increase precision over time.
 Alternatively, consider using tools like a craft knife or a die-cutter for more accurate cut-outs.

Research - My design



The inspiration for the bag came from a personal issue I frequently encounter struggling to find items in my bag, often leading to panic, as everything seems to hide within.

I felt that a high-capacity yet compact solution would be the most popular choice. I explored options like folders and pencil cases, which offer a lot of potential due to their full visibility when opened. I also discovered an organizer bag, and I was impressed by the arrangement of its compartments and the use of mesh, which seemed very suitable. I believe that the storage capacity it offers is quite significant.







Research - My design

To be able to construct a foldable experience with the bag I found out that cotton would be the best material to work with. It would allow the bag to look stylish and function as desired. The tote bag offers that the method I want to use of when pushing down on the bag its almost flat. However, the tote bag a flat base therefore It would no work the same way as my want for this design. The zipper would also have to be closer to the edges to close in more.









Research - My design

User Guides

All objects visible rapidly

- The bag should have a clear organization system that allows for quick and easy access to all items.
- This could be achieved through the use of transparent or mesh pockets, or a layout that spreads items out when the bag is opened.

Max 3-4 objects per section

- Each compartment or section of the bag should hold a maximum of 3-4 items.
- This helps to prevent overcrowding and ensures that each item can be easily seen and accessed.

Wide opening in each section

- Each section of the bag should have a wide opening.
- This allows for easy access to items and helps to prevent items from getting lost or stuck in the bottom of narrow compartments.

Material which can fold for the side panels

• The side panels of the bag should be made from a material that can be folded or collapsed.

Bag can flatten out to compact to a smaller size

• The overall design of the bag should allow it to be flattened or compacted to a smaller size.

Strap adjustable

- The bag should have an adjustable strap.
- This allows the bag to be comfortably carried by people of different heights and builds

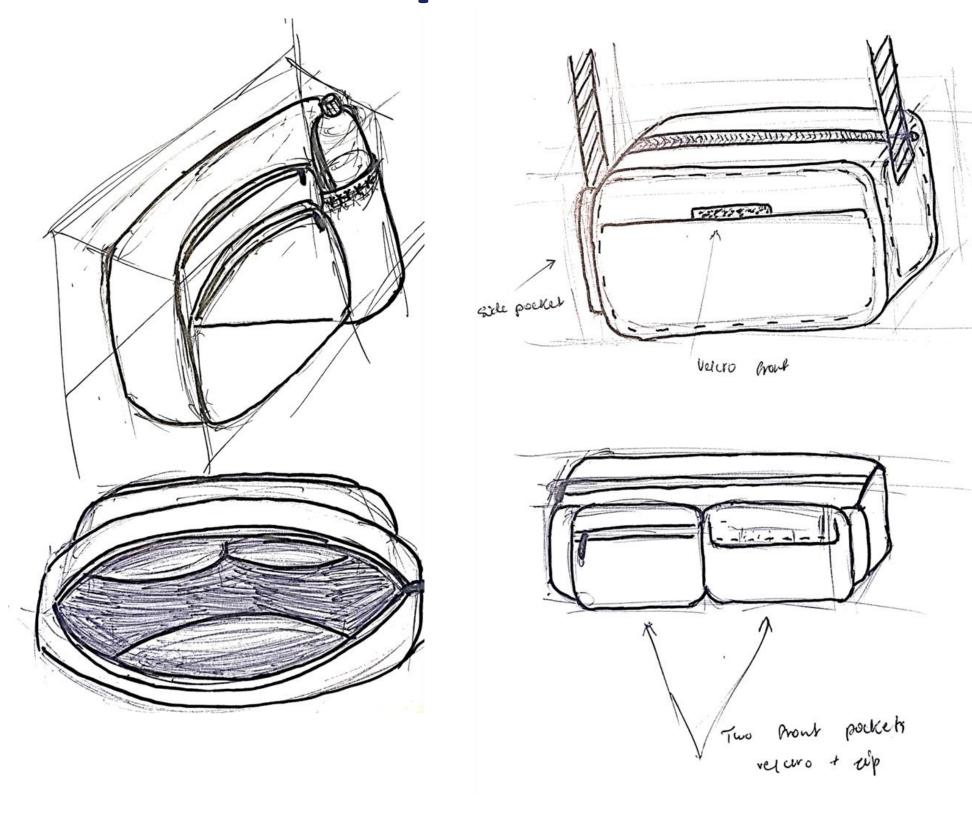
Fashionable

- The bag should have a stylish and modern design.
- This makes the bag suitable for a variety of occasions and outfits and ensures that it looks good as well as being functional.

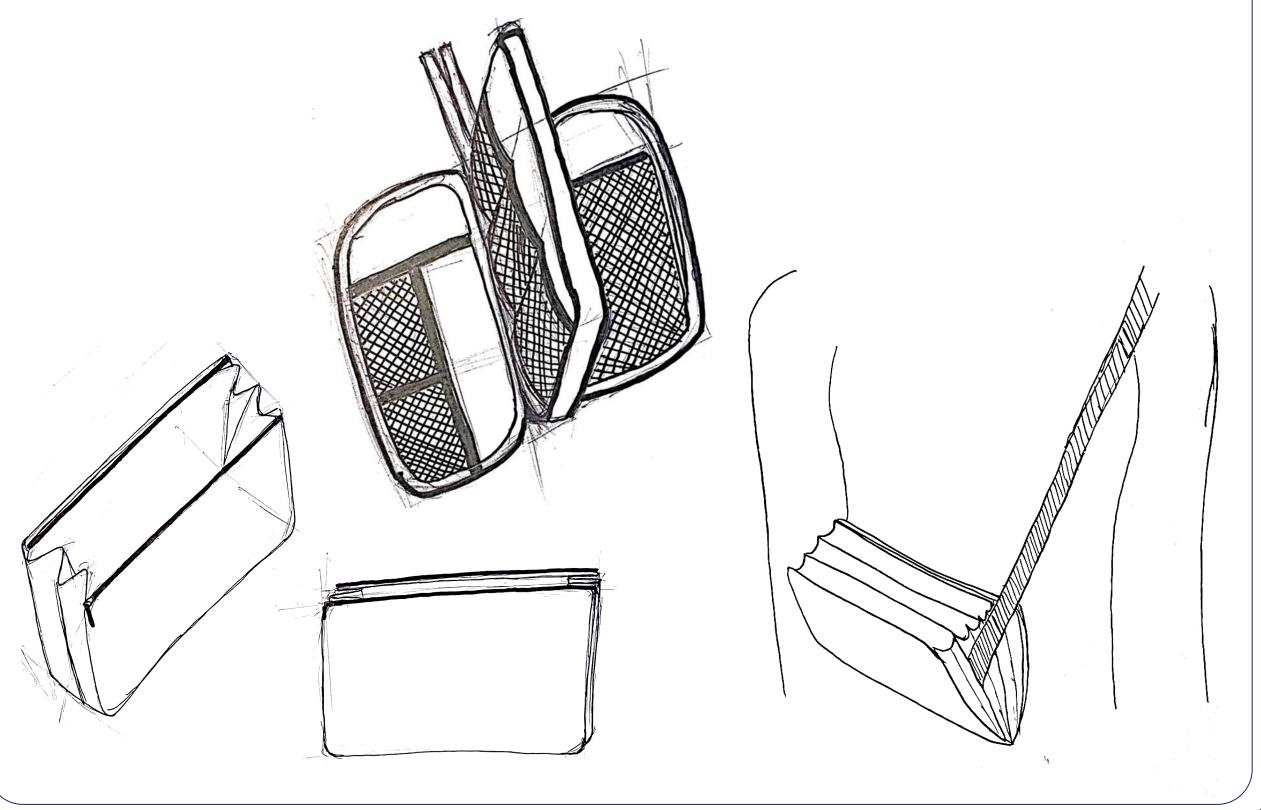
Simple design

- The design of the bag should be simple and uncluttered.
- This makes the bag easy to use and navigate, and also contributes to its aesthetic appeal.

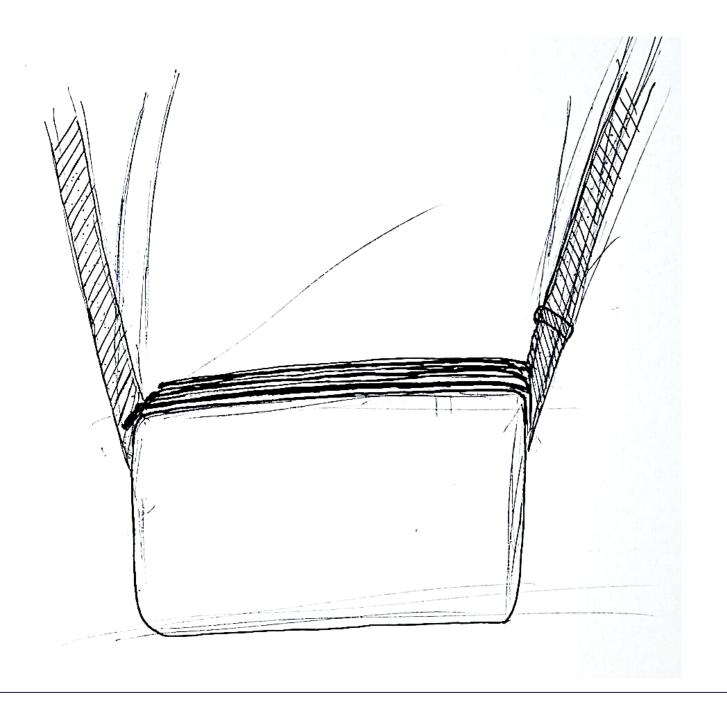
Sketch development

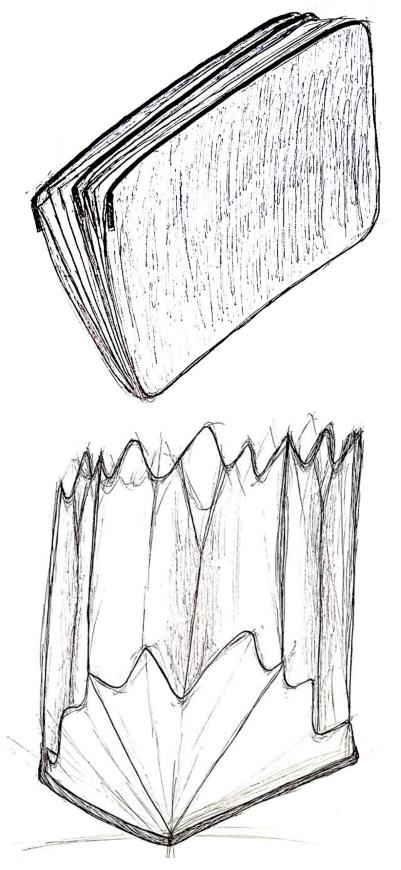


Sketch development

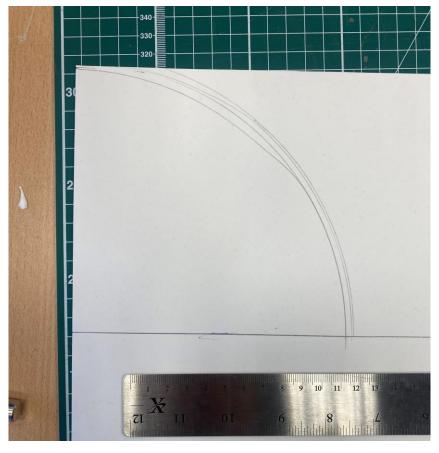


Sketch development





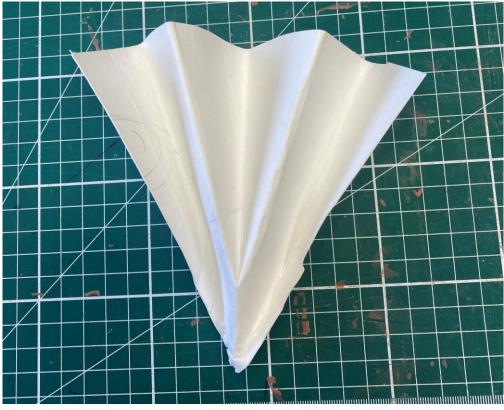




Step 1 Rectangle of 22cmw x 14.5cmh. Fillet of 2cm. Cut out 4 pieces of the same size.

Step 2 Right angle of 14cmh x 14cmw. Make a curve with these measurements. 6 pieces required.





Step 3 Make a dent in the middle to ensure symmetry.

Step 4 Raise the two next dents. Leading to one raised dent before the edge of the shape. The next dent goes downward on both sides. Use the first completed one to help you with the next 5 by laying the paper on top of it.







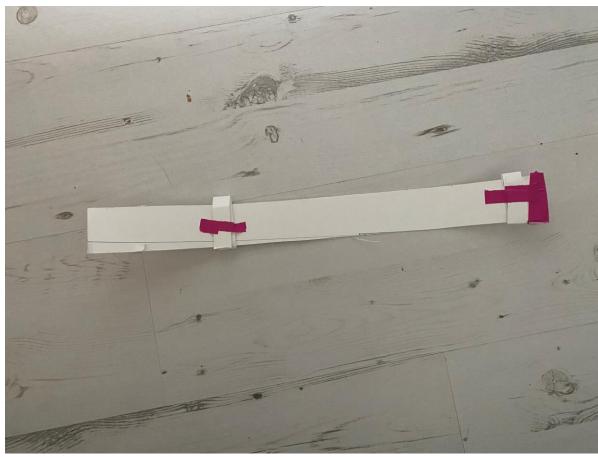
Step 5 Tape the rectangles together. To create a book like connection between each division.





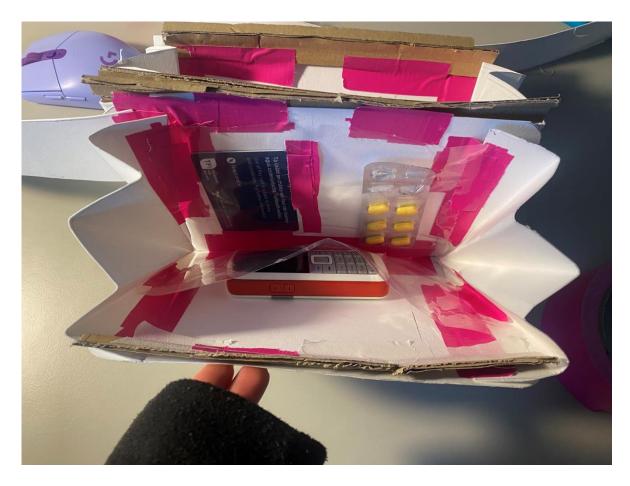
Step 6 Between each division, use the dented petal shapes on both side, with edge on the bottom repeat until used all cut-outs. Tape used to keep them intact.

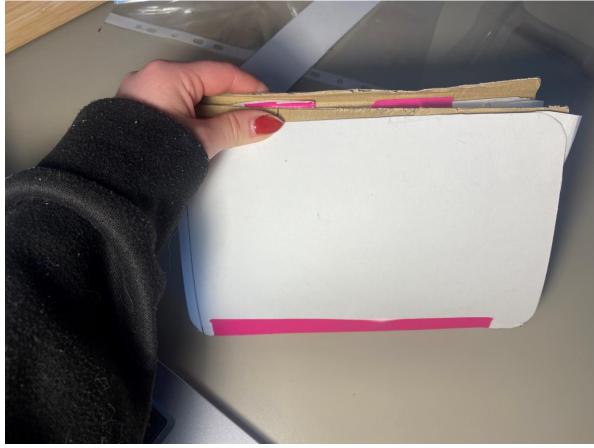




Step 7 160 cm long cut out to represent strap of the bag.

Step 8 Cut 45cm of the strap. This part will have part with the keep loop. Instead of this a slide adjust buckle positioned in the same area as the first keep loop would also satisfy a bag strap.





Step 9 Used clear plastic to represent the need for mesh compartments. Each division would have 3-4 compartments to be only used in the bag. The front one would have the division for the phone as it is the most used object.

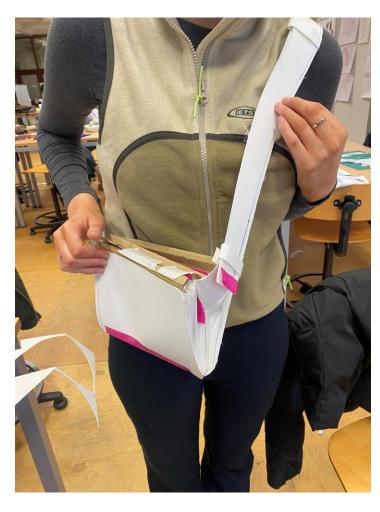
This ensures the bag closes and offers the look of the small size.

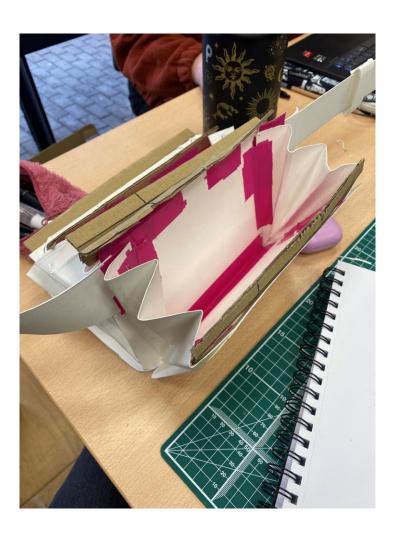




Step 10 There would be 3 zips attached this was represented with the brown cardboard. The zippers would be close to the edge to close each section and make it look flat.



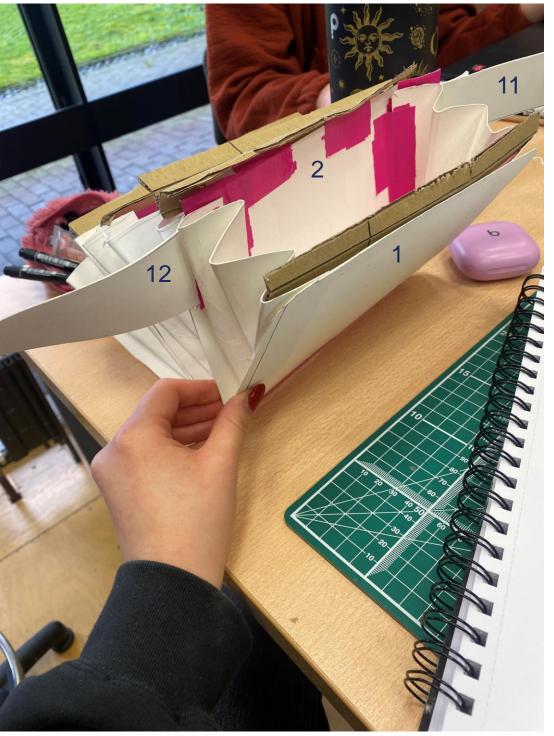




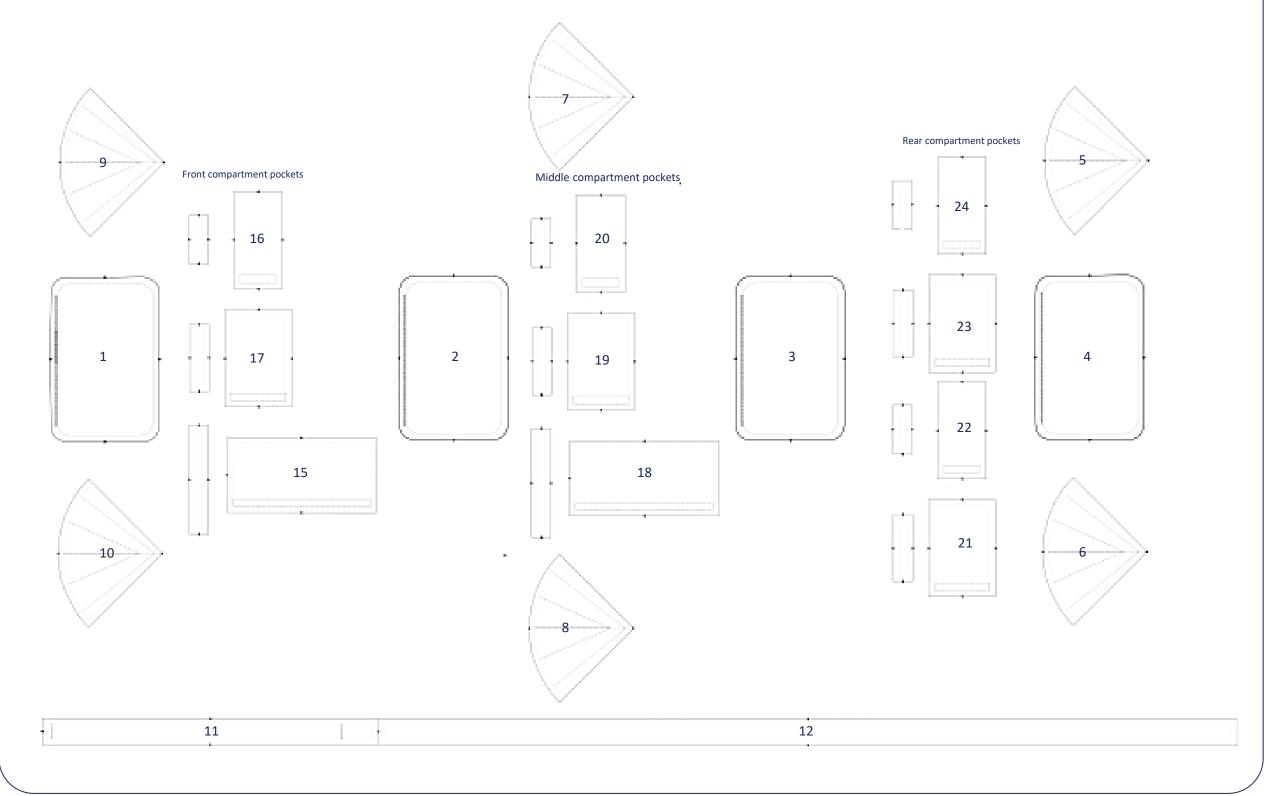
Step 11 The strap would be placed with 1 section to the front and 2 in the back.

Number labels for pattern (more identification in bill of materials)



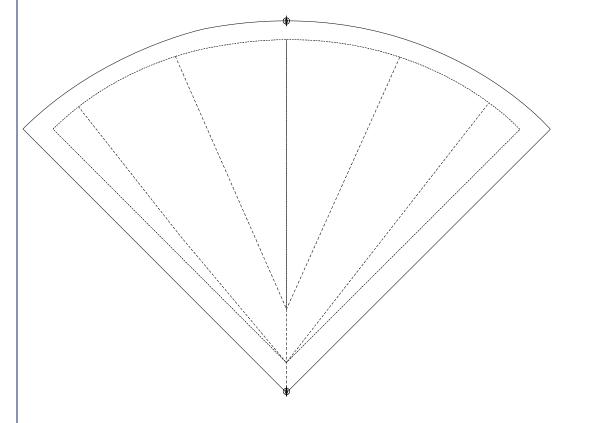


Pattern CAD

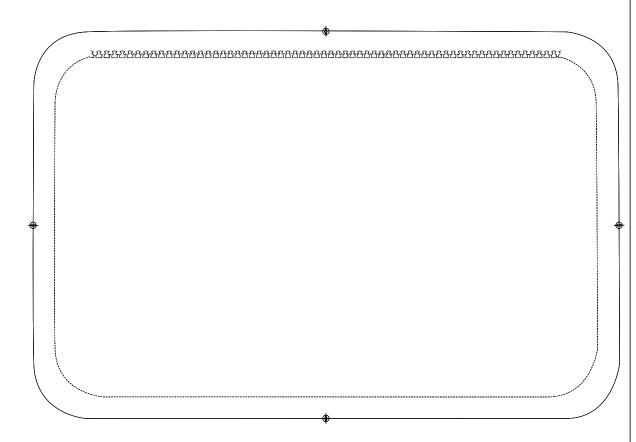


Pattern CAD (close up)

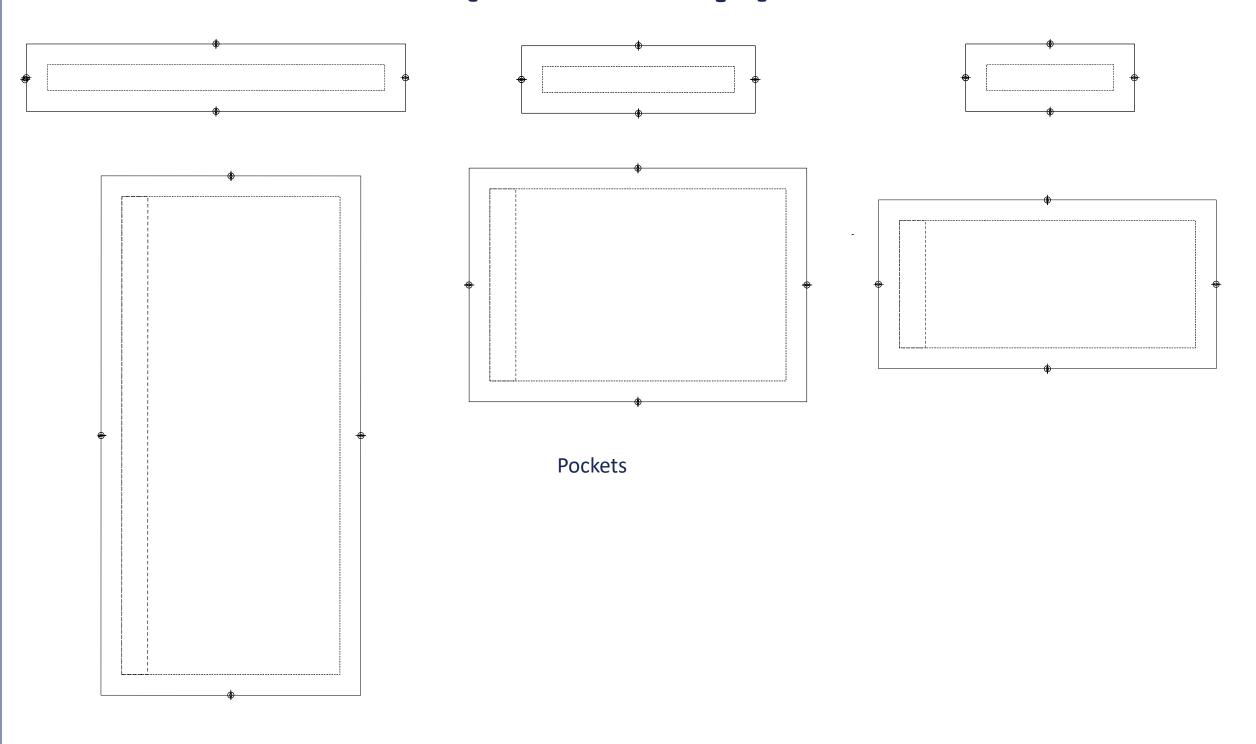
Side panels

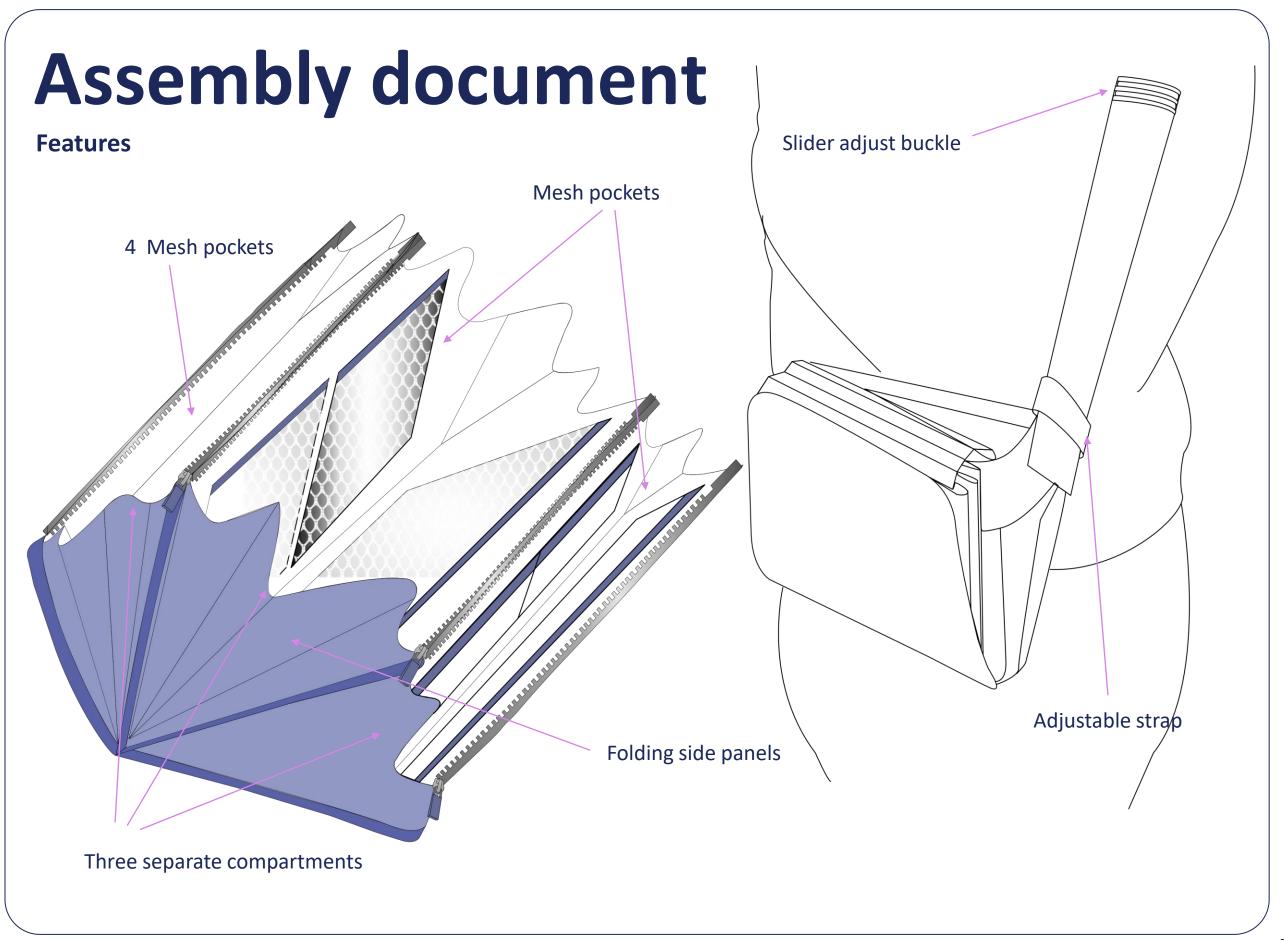


Front/back panel & dividers



Pattern CAD (close up)

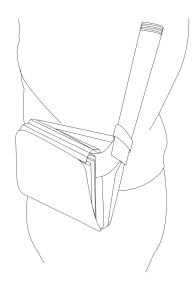




Assembly document

Construction





Use an iron to set the creases on the side panels.

To make the construction easier, stick the side panels to the rectangular ones first.

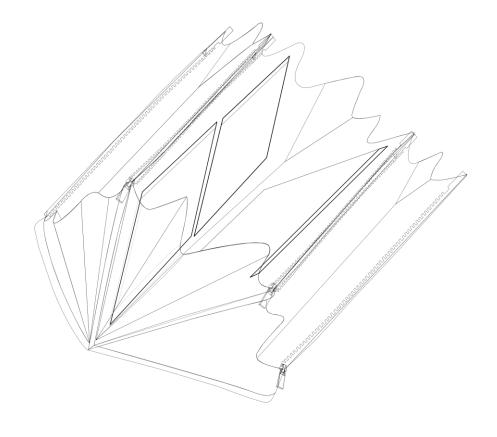
Sew the blue cotton to the start of the mesh using a simple stitch.

After sewing, you're set to place your pockets in the compartments.

All panels must connect together at the bottom. This can be done with a simple stitch along all the 4 materials to bind it.

Place the zip on the top of the panels, ensure to use a separating zipper.





Assembly document

Bill Of Materials

Assembly document

Dimensions

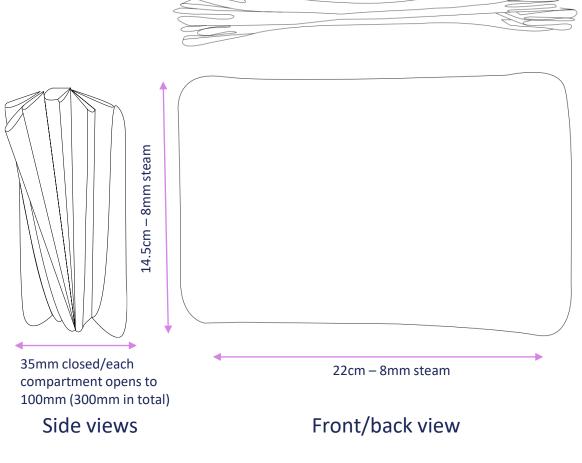












Top view